

EXECUTIVE SUMMARY

INTRODUCTION

Sri. Shrenik Kumar has applied for TOR in order to prepare EIA report for grant of Environmental Clearance as per MoEF Notifications S.O. 1533(E) dated 14-09-2006 for extraction of Pink granite quarry having lease area of 17-37 Acres located in Survey no 33/2, 33/3, 33/4 Bandargal village Kushtagi Taluk, Koppal District, Karnataka State.

As the total extent of cluster of all the projects inside the 500m buffer is having an extent greater than 5 Ha as per the Hon'ble NGT order dated 13th September 2018 and 11th December 2018 it is considered as "B1" category. The application to grant prior Environmental Clearance for the proposed project was considered by the KSEAC in its 270th SEAC meeting dated 14th December 2021. SEAC, Karnataka decided to recommend for grant of Terms of Reference (TOR) for preparing EIA/EMP report and conducting public consultation vide its letter no. SEIAA 548 MIN 2021 dated 04-10-2021.

Location of the Project

The Pink Granite Quarry with an extent of 17-37 Acres of mining lease area of located in Survey No. 33/2, 33/3, 33/4 Bandargal village Kushtagi Taluk, Koppal District, Karnataka State:

TABLE 1: SALIENT FEATURES OF THE PROJECT SITE

Sr. No.	Particulars	Details																					
1.	Project Location	Survey No. 33/2, 33/3, & 33/4 Bandargal village, Kushtagi Taluk, Koppal District, Karnataka																					
2.	Latitude/Longitude	Latitude/Northing: N 15° 57' 27.4" to N 15° 57' 38.6" Longitude/Easting: E 76° 01' 00.8" to E 76° 01' 57.3" lease boundary coordinates: <table border="1" style="margin-left: 20px; width: 100%;"> <thead> <tr> <th style="text-align: center;">Boundary</th> <th style="text-align: center;">Latitude</th> <th style="text-align: center;">Longitude</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">BP-A</td> <td style="text-align: center;">N 15° 57' 34.9"</td> <td style="text-align: center;">E 76° 01' 45.7"</td> </tr> <tr> <td style="text-align: center;">BP-B</td> <td style="text-align: center;">N 15° 57' 38.6"</td> <td style="text-align: center;">E 76° 01' 46.1"</td> </tr> <tr> <td style="text-align: center;">BP-C</td> <td style="text-align: center;">N 15° 57' 37.6"</td> <td style="text-align: center;">E 76° 01' 51.0"</td> </tr> <tr> <td style="text-align: center;">BP-D</td> <td style="text-align: center;">N 15° 57' 34.2"</td> <td style="text-align: center;">E 76° 01' 57.3"</td> </tr> <tr> <td style="text-align: center;">BP-E</td> <td style="text-align: center;">N 15° 57' 33.5"</td> <td style="text-align: center;">E 76° 01' 01.6"</td> </tr> <tr> <td style="text-align: center;">BP-F</td> <td style="text-align: center;">N 15° 57' 27.4"</td> <td style="text-align: center;">E 76° 01' 00.8"</td> </tr> </tbody> </table>	Boundary	Latitude	Longitude	BP-A	N 15° 57' 34.9"	E 76° 01' 45.7"	BP-B	N 15° 57' 38.6"	E 76° 01' 46.1"	BP-C	N 15° 57' 37.6"	E 76° 01' 51.0"	BP-D	N 15° 57' 34.2"	E 76° 01' 57.3"	BP-E	N 15° 57' 33.5"	E 76° 01' 01.6"	BP-F	N 15° 57' 27.4"	E 76° 01' 00.8"
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3.	Topo sheet No	57A/1, 48M/13																					
4.	Climatic Conditions	<ul style="list-style-type: none"> • Ambient air temp 16°C to 45°C • Avg. annual rainfall 572 mm <i>Source: CGWB, Koppal</i>																					
5.	Site elevation above MSL	578.0m to 573 m MSL																					

Sr. No.	Particulars	Details		
		Type of land use	Existing Land use (Ha)	Land use at the end of 5 years plan(Ha)
6.	Land use at the proposed project site	Area to be excavated	4.30	4.30
		Dump Yard	1.33	1.33
		Buffer Zone	0.94	0.94
		Undisturbed area	0.68	0.68
		Total	7.25	7.25
7.	Site topography	The Project site is Slightly undulated Terrain sloping South-west Corner. The subject area forms a hillock with altitude of 578-573.55 m above MSL.		
8.	Nearest roadway	National Highway NH 50 - 7.70 kms towards Northeast, Vijayapura to Chitradurga Road State Highway SH 59- 4.30 kms towards Southwest, Kushtagi to Aminagad Road Other roads - Bandargal to Honmatti road - 0.95 Kms(W)		
9.	Nearest Railway Station	Badami Railway Station 37.90 km, towards West.		
10.	Nearest Railway line	Badami Railway Station 37.90 km, towards West.		
11.	Nearest Air Port	Hubballi Airport~122.00 km, towards Southwest		
12.	Nearest village/major town	Bandargal village - 0.80 Kms (NW)		
13.	Hills/valleys	No major hills and valleys within 10 km radius		
14.	Ecologically sensitive zone	None		
15.	Reserved/ Protected forests	Sebinakatte Section -04 State Forest - 4.93 kms(SW)		
16.	Historical/tourist places	None within 5 km radius area		
17.	Nearest Industries	None within 10 kms		
18.	Nearest water bodies	Kappalappan Halla - 1.45 kms (SW)		
19.	Seismic zone	Seismically, this area is categorized under Zone-II as per IS-1893 (Part-1)-2016. Hence, seismically the site is Low Damage Risk Zone. With MSK scale of VI or Less.		

Lessee: Sri. Shrenik Kumar

PROJECT DESCRIPTION

Method of Mining

An open cast Other than fully Mechanized method will be adopted to operate the area. Since, the annual production is about 9,000 cum per annum for five years, the Open cast method will be followed during the plan period.

Anticipated life of the mine

It may be seen that during plan period, it is proposed to maintain a suitable Pink granite quarry production of about 9,000 cum per annum for 15 years.

Conceptual Mine Plan

Based on reserves of Pink granite quarry as Production capacity of 9,000 cum per annum Pink granite quarry for the 5 years plan period, thus the anticipated life of the quarry shall be 7 years.

Waste Generation & Disposal

Average of 81000 cu.m. per annum solid waste will be generated which will be disposed inside waste dump yard located east side project site over an extent of 1.33 ha.

Water Requirement & Source

Total water requirement for the project will be 10.98 KLD, Requirement is met by procurement of water from the bore well nearby Tankers.

Manpower Requirement

The said mine provides direct employment to 55 people and generate 110 indirect employment for several hundred people. Most of the directly employed manpower falls under skilled category Preference will be given to the local people as per their eligibility.

Site Infrastructure

The Quarry will have its own office premises, canteen, first-aid center etc. Quarry office is well connected with wireless and telephone, internet & e-mail facilities for communication. The Quarry is provided with a workshop to undertake repairs and regular maintenance of mining machinery deployed.

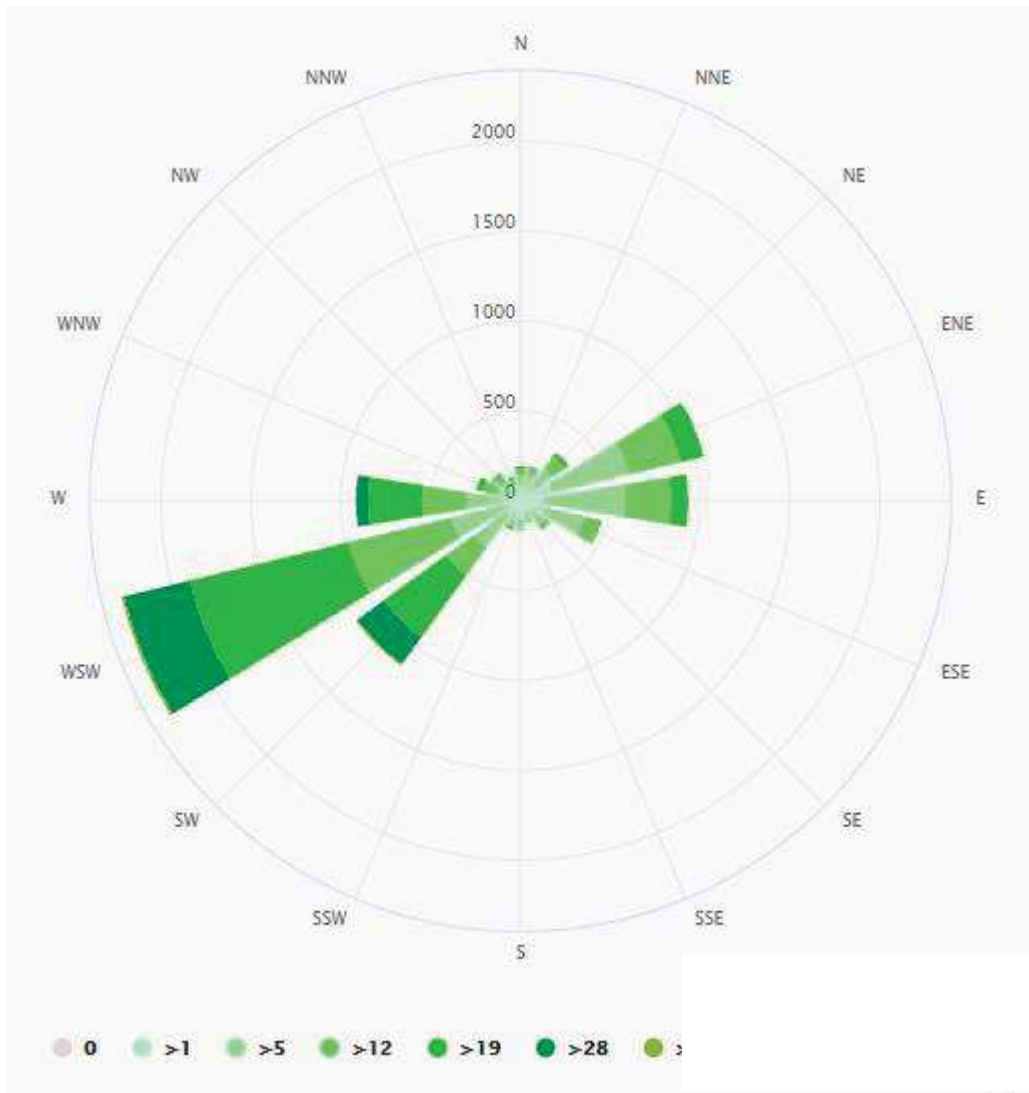
EXISTING ENVIRONMENTAL SCENARIO

Baseline Environmental Studies

Meteorology & Ambient Air Quality

Summary of Meteorological data generated at site (March 2021 to June 2021)

Wind Direction	Frequency %
First Predominant Wind Direction	WSW
Second Predominant Wind Direction	SW
Calm conditions (%)	14.46



Ambient Air Quality Status

From the results, it is observed that the ambient air quality with respect to PM₁₀, PM_{2.5}, SO₂, and NO_x at all the monitoring locations is within the permissible limits specified by CPCB.

Ambient Noise Levels

Ambient noise level monitoring was carried out at the 9 monitoring locations, those were selected for ambient air quality monitoring. The monitoring results are within limits.

Biological Environment

Sebinakatte Section -04 State Forest – 4.93 kms (SW)

Proposed Biological Environment Conservation Measures

- Thick Green belt will be developed around Quarry lease area and along transport road.
- Periodic maintenance of mineral transport road
- Regular sprinkling of water through mobile tanker on mineral transport road
- Mineral carrying trucks are loaded with only the stipulated quantity to avoid overloading and covered with tarpaulin to avoid spillage.

Socio-economic Environment

- There is no habitation or private land in the Pink granite Quarry. There is no rehabilitation and resettlement involved in the project.
- The said Quarry provides direct employment to 55 people and generate 110 indirect employment for several hundred people. Most of the directly employed manpower falls under skilled category and the respective distribution / numbers is follows. Preference will be given to the local people as per their eligibility.
- The existing infrastructure facilities are sufficient to cater the needs of the Pink granite Quarry. However, the Quarry management will take efforts as a part of CER for improvement in civic amenities like sanitation, drinking water facilities, transport road, etc. in the nearby villages.

ENVIRONMENTAL MONITORING PROGRAM

An Environmental Management Cell (EMC) will be established in the Quarry under the control of Mines Manager. The EMC will be headed by an Environmental Officer having adequate qualification and experience in the field of environmental management regular and periodic. Environmental monitoring of Ambient Air Quality, Water table depth, Water quality, Ambient Noise Levels, Soil Quality, CSR activities etc will be carried out through MOEF accredited agencies and reports will be submitted to KSPCB/ Regional office of MoEF&CC.

RISK ASSESSMENT & DISASTER MANAGEMENT PLAN

The assessment of risk in the Pink granite quarry Mining project has been estimated for Slope failure, Movement of HEMM, Inundation due to surface water, Dust hazards, Hazards associated

with use of Diesel Generator Sets and flooding of lower benches and corresponding mitigation measures are suggested in the EIA/EMP report.

PROJECT BENEFITS

The Pink granite quarry mining project would generate additional employment opportunities which would finally result in improvement in the quality of life of people of the nearby villages. In line with this CER policy, Sri. Shrenik Kumar will carry out community welfare activities in the following areas:

- Community development
- Education
- Health care
- Drainage and sanitation
- Roads

A budget of Rs. 412 Lakh per annum as recurring expenses has been proposed for implementation of Socio-economic welfare activities in the nearby villages.

ENVIRONMENTAL MANAGEMENT PLAN

Judicious use of the environmental management plan addresses the components of environment, which are likely to be affected by the different operations in the project. The capital cost of the project is approx. Rs 412 Lakhs. It is proposed to provide an amount of Rs. 41.19 Lakh as capital cost and Rs 63.50 Lakhs per annum as recurring expenses towards implementation of the environmental action plan.

CONCLUSION

The Pink granite Quarry project of Sri. Shrenik Kumar will be beneficial for the development of the nearby villages. Some environmental aspects like dust emission, noise, siltation due to surface run-off, etc. will have to be controlled within the permissible limit to avoid impacts on the surrounding environment. Necessary pollution control equipment like water sprinkling, plantation, personal protective equipment's, etc., will form regular practice in the project. Additional pollution control measures and environmental conservation measures will be adopted to control/minimize impacts on the environment and socio-economic environment of the area. Measures like development of thick green belt and plantation within quarry lease area and along transport road, adoption of rainwater harvesting in the quarry etc. will be implemented. The CSR measures proposed to be adopted by the quarry management will improve the social, economic status of the nearby villages.

The overall impacts of the Pink granite quarry will be positive and will result in overall socio-economic growth of nearby villages.