

Executive Summary of Draft Environmental Impact Assessment & Environmental Management Plan Report

(Submitted as per the provisions of
EIA Notification 2006 & amendments thereof)

For

Building stone (M-Sand) Quarry

(Building Stone proposed production: 1,00,000 TPA)

(Lease Area: 02-00 Acres)

STUDY PERIOD- MAR TO MAY 2021 (SUMMER)

at

Sy. No. 132/1D, Chanadanamatti village, Dharwad Taluk,
Dharwad District, Karnataka State

Project Proponent:

Sri. Veeresh S Yadavannavar,

#139, Laxmi Layout

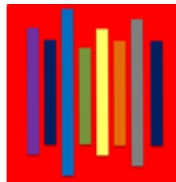
Basaveshwar Nagar, Gokul Road,

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Environmental Consultant



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BASELINE AGENCY

SLN Testing Laboratory

EXECUTIVE SUMMARY

INTRODUCTION

Sri. Veeresh S Yadavannavar 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 Building stone having lease area of 2-00 Acres located in Survey no 132/1D, Chandanamatti village, Dharwad Taluk, Dharwad 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 262nd SEAC meeting dated 16th June 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 115 MIN 2021 dated 07-08-2021.

Location of the Project

The Building stone Quarry with an extent of 2-00 Acres of mining lease area of located in Survey No. 132/1D, Chandanamatti village, Dharwad Taluk, Dharwad District, Karnataka State:

TABLE 1: SALIENT FEATURES OF THE PROJECT SITE

Sr. No.	Particulars	Details															
1.	Project Location	Survey No. 132/1D, Chanadanamatti village, Dharwad Taluk, Dharwad District, Karnataka															
2.	Latitude/Longitude	Latitude/Northing: N 15° 31' 16.66" to N 15° 31' 20.09" Longitude/Easting: E 75° 04' 40.20" to E 75° 04' 43.26" lease boundary coordinates: <table border="1" data-bbox="651 1563 1401 1805"> <thead> <tr> <th>Boundary</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>N 15° 31' 16.66"</td> <td>E 75° 04' 40.60"</td> </tr> <tr> <td>B</td> <td>N 15° 31' 16.77"</td> <td>E 75° 04' 43.26"</td> </tr> <tr> <td>C</td> <td>N 15° 31' 19.96"</td> <td>E 75° 04' 43.05"</td> </tr> <tr> <td>D</td> <td>N 15° 31' 20.09"</td> <td>E 75° 04' 40.20"</td> </tr> </tbody> </table>	Boundary	Latitude	Longitude	A	N 15° 31' 16.66"	E 75° 04' 40.60"	B	N 15° 31' 16.77"	E 75° 04' 43.26"	C	N 15° 31' 19.96"	E 75° 04' 43.05"	D	N 15° 31' 20.09"	E 75° 04' 40.20"
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3.	Topo sheet No	48M/2, 48M/3															
4.	Climatic Conditions	<ul style="list-style-type: none"> Ambient air temp 14.4°C to 34.4°C Avg. annual rainfall 772 mm <i>Source: CGWB, Dharwad</i>															
5.	Site elevation above MSL	665m to 668 m MSL															

Sr. No.	Particulars	Details		
		Particulars	Existing land in Acres	Total land in Acres
6.	Land use at the proposed project site	Area for Mining	--	1-17
		Roads	--	0-01
		Overburden dump	--	0-01
		Infrastructure	--	0-01
		Mineral Storage		
		Topsoil Yard		
		Safety Zone	--	0-20
		Area Un-utilized	02-00	--
		Total	02-00	02-00
		7.	Site topography	The Project site is Slightly undulated Terrain sloping South-west Corner. The subject area forms a hillock with altitude of 670-667.5 m above MSL.
8.	Nearest roadway	National Highway NH 48 – 10.8 kms towards Southwest, Dharwad to Belgaum Road State Highway SH 34– 2.6 kms towards Northwest, Dharwad to Saundatti Road Other roads – Chandanamatti to Amminabhavi road – 0.20 kms towards North		
9.	Nearest Railway Station	Dharwad Railway Station~12 km, towards Southwest.		
10.	Nearest Railway line	Dharwad– Hubali broad-gauge section of South western railways		
11.	Nearest Air Port	Hubali Airport Bengaluru~18.30 km, towards Southeast		
12.	Nearest village/major town	Chanadanamatti Village 1.85 km towards Southeast Dharwad Town ~ 10.15 km, towards southwest		
13.	Hills/valleys	No major hills and valleys within 10 km radius		
14.	Ecologically sensitive zone	None		
15.	Reserved/ Protected forests	None within 10 kms		
16.	Historical/tourist places	None within 5 km radius area		
17.	Nearest Industries	Pidilite industries Limited: 13.10 Km, S Shree Padmavati Cotton industries Dharwad: 5.6 Km, SW		
18.	Nearest water bodies	Amminabhavi Pond – 3.3 Kms (W)		
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.		

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 1,00,000 Tonnes 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 Building Stone production of about 1,00,000 tons per annum for 10 years.

Conceptual Mine Plan

Based on reserves of Building Stone as Production capacity of 1,00,000 Tonnes per annum Building stone for the 5 years plan period, thus the anticipated life of the quarry shall be 7 years.

Waste Generation & Disposal

Average of 26315 MT (5 Years) solid waste will be generated which will be disposed off to nearby construction site / road filling works etc. for every 3 months.

Water Requirement & Source

Total water requirement for the project will be 12.355 KLD, Requirement is met by procurement of water from the bore well nearby Tankers.

Manpower Requirement

The said mine provides direct employment to 27 people and generate 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.

Lessee: Sri. Veeresh S Yadavannavar

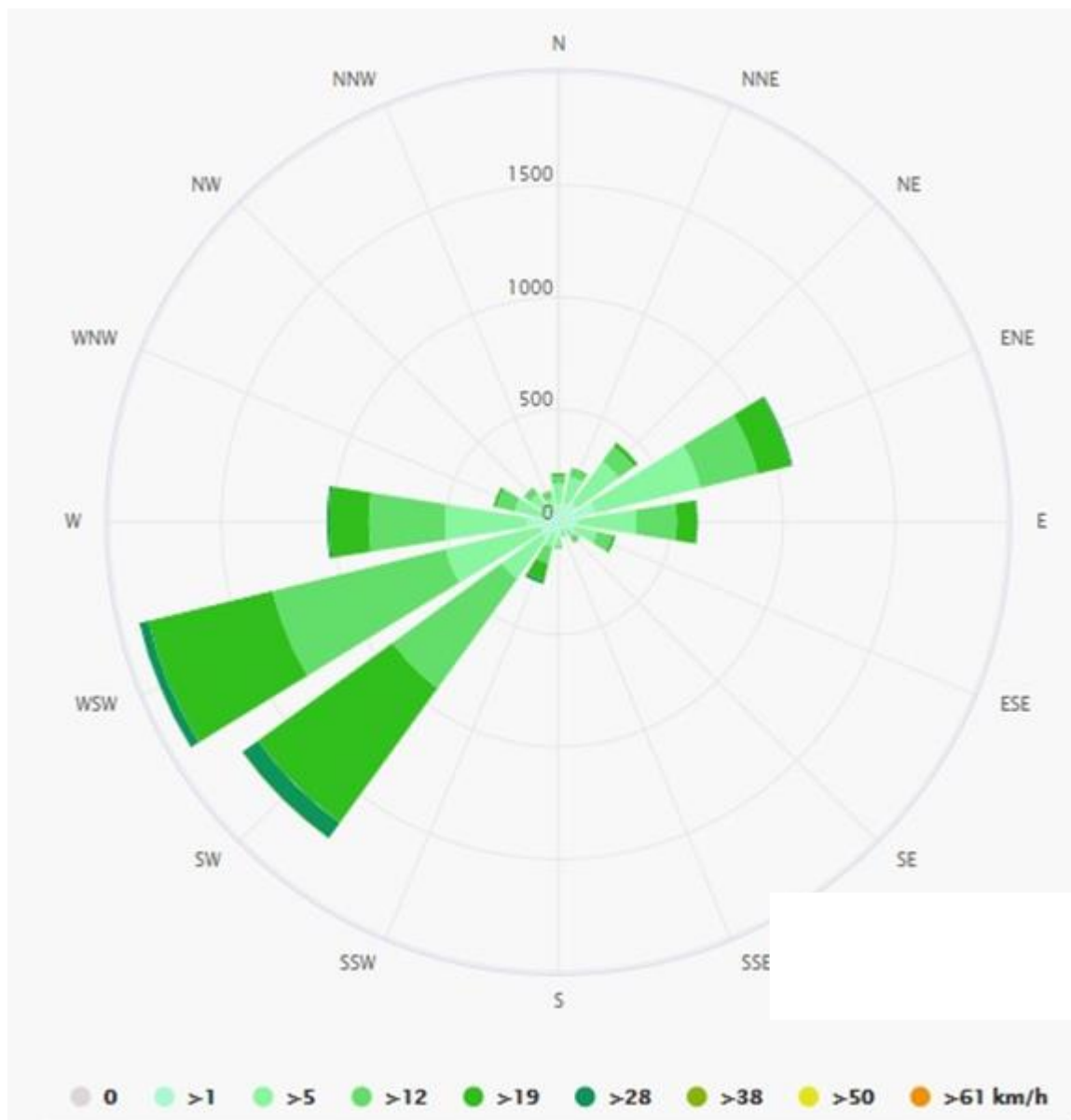
EXISTING ENVIRONMENTAL SCENARIO

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 (%)	9.5



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

Attiveri Wildlife Sanctuary is 48 kms S.

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 Building Stone Quarry. There is no rehabilitation and resettlement involved in the project.
- The said Quarry provides direct employment to 19 people and generate 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 Building Stone 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 Building Stone 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 Building Stone 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. Veeresh S Yadavannavar will carry out community welfare activities in the following areas:

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

A budget of Rs. 1.0 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 126 Lakhs. It is proposed to provide an amount of Rs. 9.86 Lakh as capital cost and Rs. 8.94 Lakhs per annum as recurring expenses towards implementation of the environmental action plan

CONCLUSION

The Building Stone Quarry project of Sri. Veeresh S Yadavannavar., 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 equipments, 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 Building Stone quarry will be positive and will result in overall socio-economic growth of nearby villages.