



ಎನ್ವಿರಾನ್ಮೆಂಟಲ್ ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್ ಪ್ಲಾನ್

ಪರಿಸರ ನಿರ್ವಹಣಾ ಯೋಜನೆಯ ನ್ಯಾಯಯುತ ಬಳಕೆಯು ಪರಿಸರದ ಅಂಶಗಳನ್ನು ತಿಳಿಸುತ್ತದೆ, ಇದು ಯೋಜನೆಯ ವಿಭಿನ್ನ ಕಾರ್ಯಾಚರಣೆಗಳಿಂದ ಪ್ರಭಾವಿತವಾಗಬಹುದು. ಯೋಜನೆಯ ಬಂಡವಾಳ ವೆಚ್ಚ ಅಂದಾಜು 114.05 ಲಕ್ಷ ರೂ. ಬಂಡವಾಳ ವೆಚ್ಚವಾಗಿ 47.68 ಲಕ್ಷ ಮತ್ತು ಪರಿಸರ ಕ್ರಿಯಾ ಯೋಜನೆ ಅನುಷ್ಠಾನಕ್ಕೆ ಮರುಕಳಿಸುವ ವೆಚ್ಚವಾಗಿ ವಾರ್ಷಿಕ 14.65 ಲಕ್ಷ ರೂ.

ತೀರ್ಮಾನ

ಮೆ. ಶ್ರೀ ಸಾಯಿ ಸುಪ್ರೀಂ ಸೊಲ್ಯೂಷನ್ಸ್ ಅವರ ಸಾಮಾನ್ಯ ಮರಳು ಕ್ವಾರಿ ಯೋಜನೆ. ಹತ್ತಿರದ ಗ್ರಾಮಗಳ ಅಭಿವೃದ್ಧಿಗೆ ಪ್ರಯೋಜನಕಾರಿಯಾಗಲಿದೆ. ಸುತ್ತಮುತ್ತಲಿನ ಪರಿಸರದ ಮೇಲೆ ಉಂಟಾಗುವ ಪರಿಣಾಮಗಳನ್ನು ತಪ್ಪಿಸಲು ಧೂಳಿನ ಹೊರಸೂಸುವಿಕೆ, ಶಬ್ದ, ಮೇಲ್ಮೈ ರನ್-ಆಫ್‌ನಿಂದ ಸಿಲ್ಟೇಶನ್ ಮುಂತಾದ ಕೆಲವು ಪರಿಸರ ಅಂಶಗಳನ್ನು ಅನುಮತಿಸುವ ಮಿತಿಯಲ್ಲಿ ನಿಯಂತ್ರಿಸಬೇಕಾಗುತ್ತದೆ. ಅಗತ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಸಾಧನಗಳಾದ ನೀರು ಚಿಮುಕಿಸುವುದು, ತೋಟ, ವೈಯಕ್ತಿಕ ರಕ್ಷಣಾ ಸಾಧನಗಳು ಇತ್ಯಾದಿಗಳು ಯೋಜನೆಯಲ್ಲಿ ನಿಯಮಿತ ಅಭ್ಯಾಸವನ್ನು ರೂಪಿಸುತ್ತವೆ. ಪ್ರದೇಶದ ಪರಿಸರ ಮತ್ತು ಸಾಮಾಜಿಕ-ಆರ್ಥಿಕ ಪರಿಸರದ ಮೇಲಿನ ಪರಿಣಾಮಗಳನ್ನು ನಿಯಂತ್ರಿಸಲು / ಕಡಿಮೆ ಮಾಡಲು ಹೆಚ್ಚುವರಿ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಕ್ರಮಗಳು ಮತ್ತು ಪರಿಸರ ಸಂರಕ್ಷಣಾ ಕ್ರಮಗಳನ್ನು ಅಳವಡಿಸಲಾಗುವುದು. ದಟ್ಟವಾದ ಹಸಿರು ಪಟ್ಟಿಯ ಅಭಿವೃದ್ಧಿ ಮತ್ತು ಕ್ವಾರಿ ಗುತ್ತಿಗೆ ಪ್ರದೇಶದೊಳಗೆ ಮತ್ತು ಸಾರಿಗೆ ರಸ್ತೆಯ ಉದ್ದಕ್ಕೂ ತೋಟ, ಕ್ವಾರಿ ಬಳಿ ಮಳೆನೀರು ಕೊಯ್ಲು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು ಮುಂತಾದ ಕ್ರಮಗಳನ್ನು ಜಾರಿಗೆ ತರಲಾಗುವುದು. ಕ್ವಾರಿ ನಿರ್ವಹಣೆಯು ಅಳವಡಿಸಿಕೊಳ್ಳಲು ಉದ್ದೇಶಿಸಿರುವ ಸಿಎಸ್‌ಆರ್ ಕ್ರಮಗಳು ಹತ್ತಿರದ ಹಳ್ಳಿಗಳ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಸ್ಥಿತಿಯನ್ನು ಸುಧಾರಿಸುತ್ತದೆ.

ನೈಸರ್ಗಿಕ ಮರಳು ಗಣಿ ಒಟ್ಟಾರೆ ಪರಿಣಾಮಗಳು ಸಕಾರಾತ್ಮಕವಾಗಿರುತ್ತವೆ ಮತ್ತು ಹತ್ತಿರದ ಹಳ್ಳಿಗಳ ಸಾಮಾಜಿಕ-ಆರ್ಥಿಕ ಬೆಳವಣಿಗೆಗೆ ಕಾರಣವಾಗುತ್ತದೆ.

EXECUTIVE SUMMARY

INTRODUCTION

M/s. Sri Sai Supreme Solutions 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 Ordinary Sand having lease area of 10-00 Acres located in Survey No. 9/2, 9/3, 9/4, 9/5, 9/6, 9/7 & 9/8 of Gadagoli Village, Ron Taluk, Gadag District, Karnataka State.

As the proposed project is coming under cluster situation and in the cluster as the total area extent is greater than 5 Ha as per the Hon'ble NGT order dated 13th September 2018 and 11th December 2018 it is considered as "B" category. The application to grant prior Environmental Clearance for the proposed project was considered by the KSEAC in its 254th SEAC meeting dated 7th January 2021, for determination of the Terms of Reference (ToR) for preparation of the Environmental Impact Assessment (EIA) report. The Committee has suggested specific Terms of Reference (ToR) for preparation of the EIA report and Environmental Management Plan and for conducting public hearing vide its letter No. SEIAA 321 MIN 2020.

Location of the Project

The Ordinary Sand Quarry with an extent of 10-00 Acres of quarrying lease area of located in Survey No. 9/2, 9/3, 9/4, 9/5, 9/6, 9/7 & 9/8 of Gadagoli Village, Ron Taluk, Gadag District, Karnataka State

TABLE 1: SALIENT FEATURES OF THE PROJECT SITE

Sr. No.	Particulars	Details																								
1.	Latitude/Longitude	<table border="1" style="width: 100%; border-collapse: collapse; margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3" style="text-align: center;">Datum: WGS 84</th> </tr> <tr> <th style="width: 30%;">Boundary</th> <th style="width: 30%;">Latitude</th> <th style="width: 40%;">Longitude</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">N 15° 49' 47.89"</td> <td style="text-align: center;">E 75° 33' 8.10"</td> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">N 15° 49' 56.81"</td> <td style="text-align: center;">E 75° 33' 9.56"</td> </tr> <tr> <td style="text-align: center;">C</td> <td style="text-align: center;">N 15° 49' 54.33"</td> <td style="text-align: center;">E 75° 33' 16.28"</td> </tr> <tr> <td style="text-align: center;">D</td> <td style="text-align: center;">N 15° 49' 52.02"</td> <td style="text-align: center;">E 75° 33' 15.92"</td> </tr> <tr> <td style="text-align: center;">E</td> <td style="text-align: center;">N 15° 49' 52.32"</td> <td style="text-align: center;">E 75° 33' 10.50"</td> </tr> <tr> <td style="text-align: center;">F</td> <td style="text-align: center;">N 15° 49' 47.66"</td> <td style="text-align: center;">E 75° 33' 9.78"</td> </tr> </tbody> </table>	Datum: WGS 84			Boundary	Latitude	Longitude	A	N 15° 49' 47.89"	E 75° 33' 8.10"	B	N 15° 49' 56.81"	E 75° 33' 9.56"	C	N 15° 49' 54.33"	E 75° 33' 16.28"	D	N 15° 49' 52.02"	E 75° 33' 15.92"	E	N 15° 49' 52.32"	E 75° 33' 10.50"	F	N 15° 49' 47.66"	E 75° 33' 9.78"
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2.	Site elevation above MSL	541.5 to 538.5 m MSL																								

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4.	Nearest roadway	<i>NH 52 – 15.70 Kms (W) (hubbli to Bijapur Road) SH 133 – 0.70Kms (N) (Cholachagudda to Hebballi Road) Hebballi to Holealur road – 0.30 Kms(S)</i>																						
5.	Nearest Railway Station	Holealur Railway Station – 1.55 Kms (SE)																						
6.	Nearest Railway line	Jakanur– Somankatti broad-gauge section of South-eastern railways – 1.35 Kms (SE)																						
7.	Nearest Air Port	Hubballi Airport, Hyderabad, Karnataka ~ 68.60 km.																						
8.	Nearest village/major town	Shirol Village ~1.10 km towards Southwest Ron – 17.20 Kms.																						
9.	Hills/valleys	No major hills and valleys within 10 km radius																						
10.	Ecologically sensitive zone	The Project site does not come under Western Ghats																						
11.	Reserved/ Protected forests	Budihal Reserved Forest – 2.90 kms (N)																						
12.	Historical/tourist places	None within 5 km radius area																						
13.	Nearest Industries	Rockson Packaging Industries: 24.60 Km, SW																						
14.	Nearest water bodies	Malaprabha River – 70 mts (SW)																						

PROJECT DESCRIPTION

Method of Quarrying

An open cast Semi Mechanized method will be adopted to operate the area. Since, the annual production is about 46,394 Tons per annum. The Open cast method will be followed during the plan period.

Anticipated life of the quarry

Life of the mine in this case is for 3 years or till the reserves get exhausted.

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Conceptual Quarry Plan

Based on reserves of Ordinary sand as Production capacity of 46,394 Tons per annum, thus the anticipated life of the will be till the reserves get exhausted.

Waste Generation & Disposal

There is no such reduction of waste / mineral reject processing possibilities are proposed during plan period. There is no proposal of dumping during the proposed ensuing quarrying period, & concurrent backfilling is proposed.

Water Requirement & Source

Total water requirement for the project will be 7.27 KLD, Requirement is met by procurement of water from the bore well nearby Tankers.

Manpower Requirement

The said quarry provides direct employment to 17 people and generate indirect employment for 35 more 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 quarrying machinery deployed.

EXISTING ENVIRONMENTAL SCENARIO

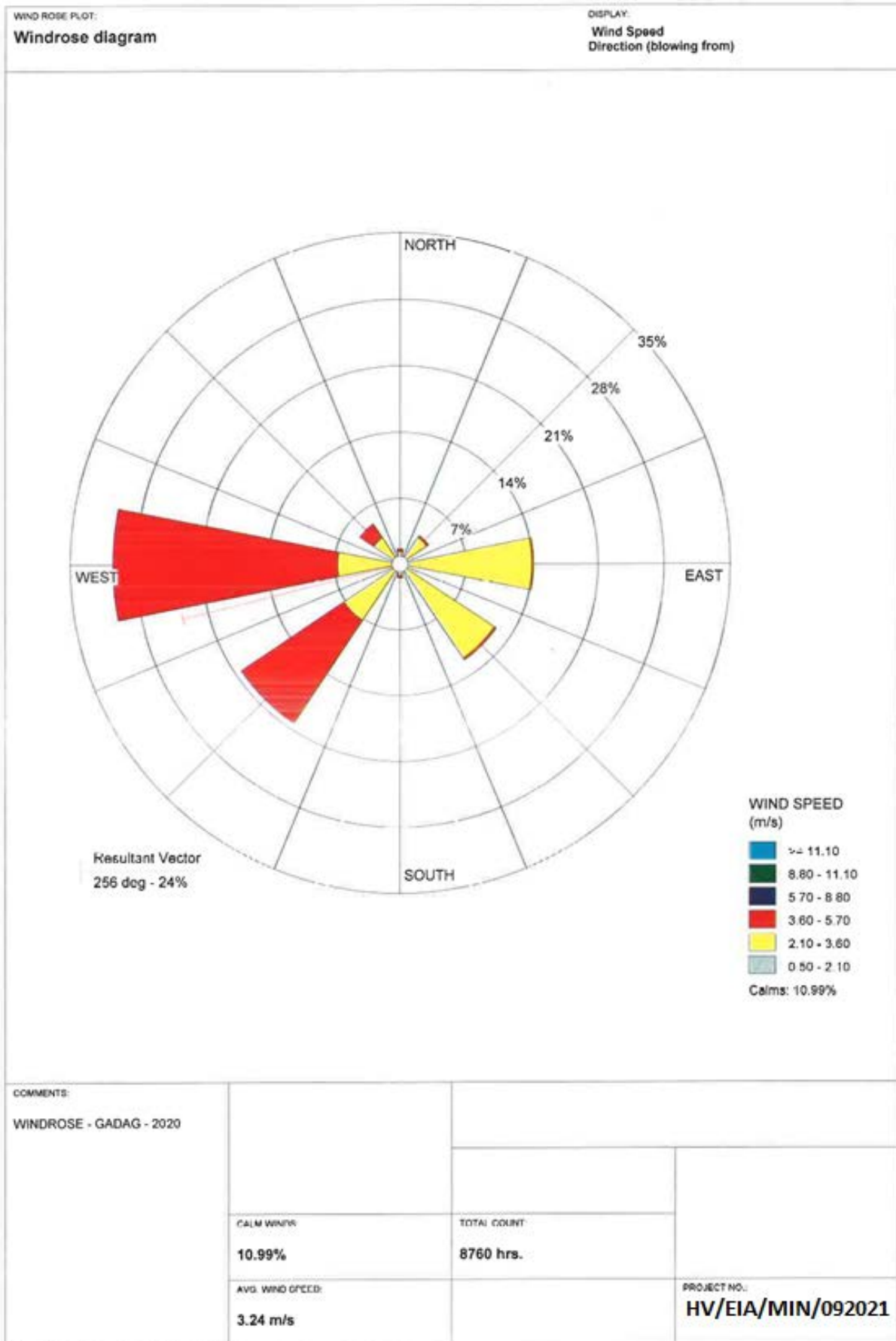
Baseline Environmental Studies

Meteorology & Ambient Air Quality (Oct 2020 to Dec 2020)

Summary of Meteorological data generated at site.

Temperature (°C)	10 to 37.2°C
Relative Humidity (%)	36% to 71%
Wind Direction	W
Calm wind %	10.99%

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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

There is no National Park, Wildlife Sanctuary and Biosphere Reserve within 10 km radius.

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 in the Ordinary Sand Quarry. There is no rehabilitation and resettlement involved in the project.
- The said Quarry provides direct employment to 17 people and generate indirect employment for 35 more 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 Ordinary sand 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 Quarry 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 Ordinary sand Quarrying 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 draft EIA/EMP report.

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PROJECT BENEFITS

The Ordinary sand Quarrying 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, M/s. Sri Sai Supreme Solutions will carry out community welfare activities in the following areas:

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

A budget of Rs. 0.93 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 114.05 lakhs. It is proposed to provide an amount of Rs. 47.68 Lakh as capital cost and Rs. 14.65 Lakhs per annum as recurring expenses towards implementation of the environmental action plan.

CONCLUSION

The Ordinary Sand Quarry project of M/s. Sri Sai Supreme Solutions 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 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 Ordinary sand quarry will be positive and will result in overall socio-economic growth of nearby villages.