

EXECUTIVE SUMMARY

INTRODUCTION

Sri. B.D. Kenchareddy 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 Limestone having lease area of 4.49 Ha located in Survey no 87(P), Kamkeri village, Ramadurga Taluk, Belgaum 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 213rd SEAC meeting dated 04th December 2018. 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 45 MIN 2018 dated 07-01-2019.

Location of the Project

The Limestone Mine with an extent of 4.49 Ha of mining lease area of located in Survey No. 87(P), Kamkeri village, Ramadurga Taluk, Belgaum District, Karnataka State:

TABLE 1: SALIENT FEATURES OF THE PROJECT SITE

| Sr. No. | Particulars | Details | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---------------------|--|----------|----------|-----------|---|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|---------------------|---|---------------------|---------------------|
| 1. | Project Location | Survey No. 87(P), Kamkeri village, Ramadurga Taluk, Belgaum District, Karnataka | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Latitude/Longitude | Latitude/Northing: N 16° 12' 08.06986" to N 16° 12' 12.87766" Longitude/Easting: E 75° 15' 18.03304" to E 75° 15' 33.67813" lease boundary coordinates: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: center;">B.P. No.</th> <th style="text-align: center;">Latitude</th> <th style="text-align: center;">Longitude</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">N 16° 12' 09.36423"</td> <td style="text-align: center;">E 75° 15' 18.41821"</td> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">N 16° 12' 09.77053"</td> <td style="text-align: center;">E 75° 15' 25.02786"</td> </tr> <tr> <td style="text-align: center;">C</td> <td style="text-align: center;">N 16° 12' 08.06986"</td> <td style="text-align: center;">E 75° 15' 25.32483"</td> </tr> <tr> <td style="text-align: center;">D</td> <td style="text-align: center;">N 16° 12' 08.95307"</td> <td style="text-align: center;">E 75° 15' 33.67813"</td> </tr> <tr> <td style="text-align: center;">E</td> <td style="text-align: center;">N 16° 12' 12.87766"</td> <td style="text-align: center;">E 75° 15' 33.23178"</td> </tr> <tr> <td style="text-align: center;">F</td> <td style="text-align: center;">N 16° 12' 11.94525"</td> <td style="text-align: center;">E 75° 15' 25.99260"</td> </tr> <tr> <td style="text-align: center;">G</td> <td style="text-align: center;">N 16° 12' 11.85713"</td> <td style="text-align: center;">E 75° 15' 18.09770"</td> </tr> <tr> <td style="text-align: center;">H</td> <td style="text-align: center;">N 16° 12' 10.98024"</td> <td style="text-align: center;">E 75° 15' 18.03304"</td> </tr> </tbody> </table> | B.P. No. | Latitude | Longitude | A | N 16° 12' 09.36423" | E 75° 15' 18.41821" | B | N 16° 12' 09.77053" | E 75° 15' 25.02786" | C | N 16° 12' 08.06986" | E 75° 15' 25.32483" | D | N 16° 12' 08.95307" | E 75° 15' 33.67813" | E | N 16° 12' 12.87766" | E 75° 15' 33.23178" | F | N 16° 12' 11.94525" | E 75° 15' 25.99260" | G | N 16° 12' 11.85713" | E 75° 15' 18.09770" | H | N 16° 12' 10.98024" | E 75° 15' 18.03304" |
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| H | N 16° 12' 10.98024" | E 75° 15' 18.03304" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Topo sheet No | 47 P/3, 47P/4, 47P/7, 47P/8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Climatic Conditions | <ul style="list-style-type: none"> • Ambient air temp 14.3°C to 34.8 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Lessee: Sri. B.D. Kenchareddy

| Sr. No. | Particulars | Details | | |
|---------|---------------------------------------|--|------------------------------------|-------------------------------------|
| | | <ul style="list-style-type: none"> Avg. annual rainfall 1165 mm <p>Source: CGWB, Belgaum</p> | | |
| 5. | Site elevation above MSL | 586.54 to 580.89 m MSL | | |
| 6. | Land use at the proposed project site | Type of land use | Existing Land use (Hectare) | End of plan period (Hectare) |
| | | Area under Mining | 0.811 | 2.293 |
| | | Storage of Top soil | -- | -- |
| | | Waste dump site | -- | 0.351 |
| | | Mineral storage | -- | 0.040 |
| | | Infrastructure | 0.006 | 0.006 |
| | | Roads | 0.137 | 0.137 |
| | | Mineral separation plant | -- | 0.040 |
| | | Others | 3.536 | 1.623 |
| | | Total | 4.49 | 4.49 |
| 7. | Site topography | The Project site is Slightly undulated Terrain sloping South-west Corner. The subject area forms a hillock with altitude of 586.54-580.89 m above MSL. | | |
| 8. | Nearest roadway | Village road Budni to Halaki Towards N in 1.7 kms National Highway NH 218 -37.70 kms (E) (Hubli to Bijapur Road) SH 44 - 1.60 Kms (N) (Lokapur to Yadawad Road) | | |
| 9. | Nearest Railway Station | Bagalkot Railway Station~47.30 km, towards east. | | |
| 10. | Nearest Railway line | Bagalkot Railway Station~47.30 km, towards east. | | |
| 11. | Nearest Air Port | Belagavi Airport ~78.79 km, towards Northwest. | | |
| 12. | Nearest village/major town | Kamkeri Village 2.19 km towards Southeast | | |
| 13. | Hills/valleys | No major hills and valleys within 10 km radius | | |
| 14. | Ecologically sensitive zone | None | | |
| 15. | Reserved/ Protected forests | Reserved Forest near Ningapura - 3.90 kms (NE) | | |
| 16. | Historical/tourist places | None within 5 km radius area | | |
| 17. | Nearest Industries | None within 10 km radius area | | |



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| Sr. No. | Particulars | Details |
|----------------|----------------------|--|
| 18. | Nearest water bodies | Halaki kere - 1.50 kms (N) Budni kere - 3.20 kms (S) |
| 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 1,20,000 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 Limestone production of about 1,20,000 tons per annum for 5 years.

Conceptual Mine Plan

Based on reserves of Limestone as Production capacity of 1,20,000 Tonnes per annum Limestone for the 5 years plan period, thus the anticipated life of the mine shall be 06 years.

Waste Generation & Disposal

Average of 31580 tonnes (5 Years) solid waste will be generated which will be disposed off to dump yard.

Water Requirement & Source

Total water requirement for the project will be 10.5 KLD, Requirement is met by procurement of water from the bore well nearby Tankers.

Manpower Requirement

The said mine provides direct employment to 33 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 Mine will have its own office premises, canteen, first-aid center etc. Mine office is well connected with wireless and telephone, internet & e-mail facilities for communication. The Mine is provided with a workshop to undertake repairs and regular maintenance of mining machinery deployed.

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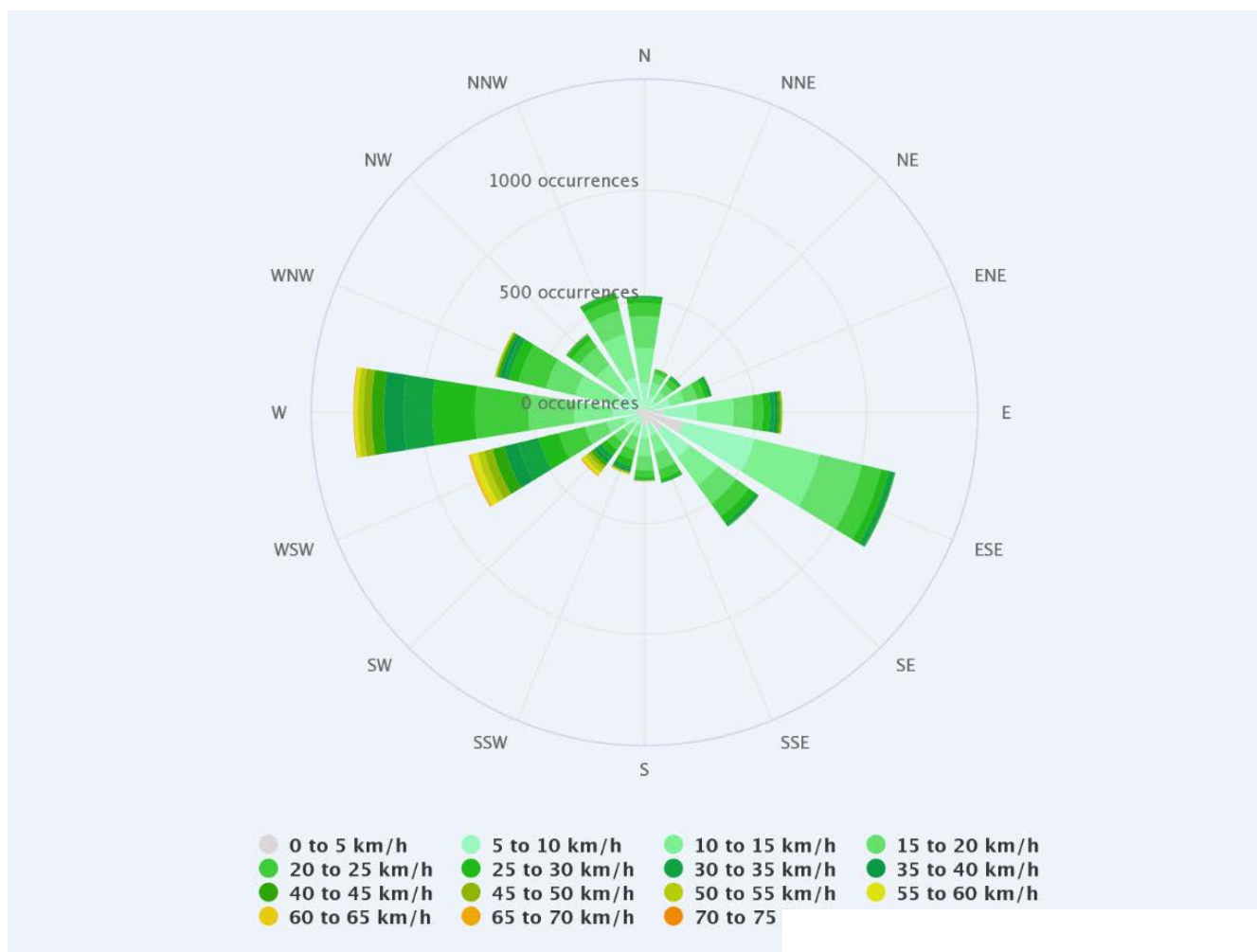
EXISTING ENVIRONMENTAL SCENARIO

Baseline Environmental Studies

Meteorology & Ambient Air Quality

Summary of Meteorological data generated at site (Oct 2021 to Dec 2021)

| Wind Direction | Frequency % |
|-----------------------------------|-------------|
| First Predominant Wind Direction | W |
| 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.



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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.

Proposed Biological Environment Conservation Measures

- Thick Green belt will be developed around Mine 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 Limestone Mine. There is no rehabilitation and resettlement involved in the project.
- The said Mine provides direct employment to 33 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 Limestone Mine. However, the Mine 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 Mine 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 Limestone 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 Limestone 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. B.D. Kenchareddy will carry out community welfare activities in the following areas:



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

A budget of Rs. 1.2 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 194 Lakhs. It is proposed to provide an amount of Rs. 93.02 Lakh as capital cost and Rs. 24.71 Lakhs per annum as recurring expenses towards implementation of the environmental action plan

CONCLUSION

The Limestone Mine project of Sri. B.D. Kenchareddy, 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 mine lease area and along transport road, adoption of rainwater harvesting in the mine etc. will be implemented. The CSR measures proposed to be adopted by the mine management will improve the social, economic status of the nearby villages.

The overall impacts of the Limestone mine will be positive and will result in overall socio-economic growth of nearby villages.