

## EXECUTIVE SUMMARY

### INTRODUCTION

Sri. Srimanth Jagadevappa Indi 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 9-10 Acres located in part of Sy. No- 60/1 & 66/2 of Bhagodi Village, Chittapur Taluk, Kalaburagi District, Karnataka.

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 "B1" category. The application to grant prior Environmental Clearance for the proposed project was considered by the KSEAC in its 257th SEAC meeting dated 26th February 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 2020.

### Location of the Project

The Sand Block with an extent of 9-10 Acres located in part of Sy. No- 60/1 & 66/2 of Bhagodi Village, Chittapur Taluk, Kalaburagi District, Karnataka

**TABLE 1: SALIENT FEATURES OF THE PROJECT SITE**

Sr. No.	Particulars	Details																																			
1.	Latitude/Longitude	<table border="1"> <thead> <tr> <th data-bbox="655 405 871 490">Corner Pillar</th> <th data-bbox="871 405 1174 490">Latitude</th> <th data-bbox="1174 405 1430 490">Longitude</th> </tr> </thead> <tbody> <tr> <td data-bbox="655 490 871 528">A</td> <td data-bbox="871 490 1174 528">N 17° 11' 30.70"</td> <td data-bbox="1174 490 1430 528">E 77° 03' 31.30"</td> </tr> <tr> <td data-bbox="655 528 871 566">B</td> <td data-bbox="871 528 1174 566">N 17° 11' 30.60"</td> <td data-bbox="1174 528 1430 566">E 77° 03' 31.70"</td> </tr> <tr> <td data-bbox="655 566 871 604">C</td> <td data-bbox="871 566 1174 604">N 17° 11' 28.70"</td> <td data-bbox="1174 566 1430 604">E 77° 03' 33.30"</td> </tr> <tr> <td data-bbox="655 604 871 642">D</td> <td data-bbox="871 604 1174 642">N 17° 11' 27.60"</td> <td data-bbox="1174 604 1430 642">E 77° 03' 35.00"</td> </tr> <tr> <td data-bbox="655 642 871 680">E</td> <td data-bbox="871 642 1174 680">N 17° 11' 25.70"</td> <td data-bbox="1174 642 1430 680">E 77° 03' 38.80"</td> </tr> <tr> <td data-bbox="655 680 871 719">F</td> <td data-bbox="871 680 1174 719">N 17° 11' 23.10"</td> <td data-bbox="1174 680 1430 719">E 77° 03' 36.60"</td> </tr> <tr> <td data-bbox="655 719 871 757">G</td> <td data-bbox="871 719 1174 757">N 17° 11' 23.90"</td> <td data-bbox="1174 719 1430 757">E 77° 03' 31.70"</td> </tr> <tr> <td data-bbox="655 757 871 795">H</td> <td data-bbox="871 757 1174 795">N 17° 11' 23.60"</td> <td data-bbox="1174 757 1430 795">E 77° 03' 31.50"</td> </tr> <tr> <td data-bbox="655 795 871 833">I</td> <td data-bbox="871 795 1174 833">N 17° 11' 25.30"</td> <td data-bbox="1174 795 1430 833">E 77° 03' 28.30"</td> </tr> <tr> <td colspan="3" data-bbox="655 833 1430 891" style="text-align: center;"><b>WGS-84 DATUM</b></td> </tr> </tbody> </table>	Corner Pillar	Latitude	Longitude	A	N 17° 11' 30.70"	E 77° 03' 31.30"	B	N 17° 11' 30.60"	E 77° 03' 31.70"	C	N 17° 11' 28.70"	E 77° 03' 33.30"	D	N 17° 11' 27.60"	E 77° 03' 35.00"	E	N 17° 11' 25.70"	E 77° 03' 38.80"	F	N 17° 11' 23.10"	E 77° 03' 36.60"	G	N 17° 11' 23.90"	E 77° 03' 31.70"	H	N 17° 11' 23.60"	E 77° 03' 31.50"	I	N 17° 11' 25.30"	E 77° 03' 28.30"	<b>WGS-84 DATUM</b>				
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2.	Site elevation above MSL	397.0m to 395.5m MSL																																			
3.	Land use at the proposed project site	<table border="1"> <thead> <tr> <th data-bbox="655 965 978 1099">Type of land use</th> <th data-bbox="978 965 1174 1099">Existing / present (Hectares)</th> <th data-bbox="1174 965 1445 1099">End of lease (Hectares)</th> </tr> </thead> <tbody> <tr> <td data-bbox="655 1099 978 1144">Area to be Excavated</td> <td data-bbox="978 1099 1174 1144">--</td> <td data-bbox="1174 1099 1445 1144">3.156</td> </tr> <tr> <td data-bbox="655 1144 978 1234">Storage of Top soil/ Green Belt.</td> <td data-bbox="978 1144 1174 1234">--</td> <td data-bbox="1174 1144 1445 1234">0.587</td> </tr> <tr> <td data-bbox="655 1234 978 1279">Area Un-utilized</td> <td data-bbox="978 1234 1174 1279">3.743</td> <td data-bbox="1174 1234 1445 1279">--</td> </tr> <tr> <td data-bbox="655 1279 978 1323" style="text-align: center;">TOTAL</td> <td data-bbox="978 1279 1174 1323">3.743</td> <td data-bbox="1174 1279 1445 1323">3.743</td> </tr> </tbody> </table>	Type of land use	Existing / present (Hectares)	End of lease (Hectares)	Area to be Excavated	--	3.156	Storage of Top soil/ Green Belt.	--	0.587	Area Un-utilized	3.743	--	TOTAL	3.743	3.743																				
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4.	Nearest roadway	NH 52 – 27.85 Kms (W) (Gulbarga to Bijapur Road ) SH 126 – 5.00 Kms (E) (Chittapur to Tengli road) Mudbol – Bhagodi Road (S) – 0.98 Kms																																			
5.	Nearest Railway Station	Chittapur Railway Station – 8.50 Kms (SE)																																			
6.	Nearest Railway line	Tandur – Yadgir broad-gauge section of South Central railways																																			
7.	Nearest Air Port	Kalburagi Airport, Kalaburagi -16.75 kms, towards NW																																			
8.	Nearest village/major town	Bhagodi Village – 1.90 km (SW) Chittapur – 7.40 Kms (SE)																																			
9.	Hills/valleys	No major hills and valleys within 10 km radius																																			
10.	Ecologically sensitive zone	None																																			
11.	Reserved/ Protected forests	None within 10 kms																																			
12.	Historical/tourist places	None within 5 km radius area																																			
13.	Nearest Industries	None																																			
14.	Nearest water bodies	Kagina River – 180 mts (NE)																																			

**Lessee: Sri. Srimanth Jagadevappa Indi**

## **PROJECT DESCRIPTION**

### **Method of Quarrying**

An open cast method semi mechanized method will be adopted to operate the area. Since, the annual production is about 63,330 Tons per annum for 3 years; the Open cast method semi mechanized method will be followed during the plan period.

### **Anticipated life of the quarry**

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

### **Conceptual Quarry Plan**

Based on reserves of Ordinary Sand as Production capacity of 63,330 Tons per annum for the 3 years plan period, 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 6.67 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 34 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.

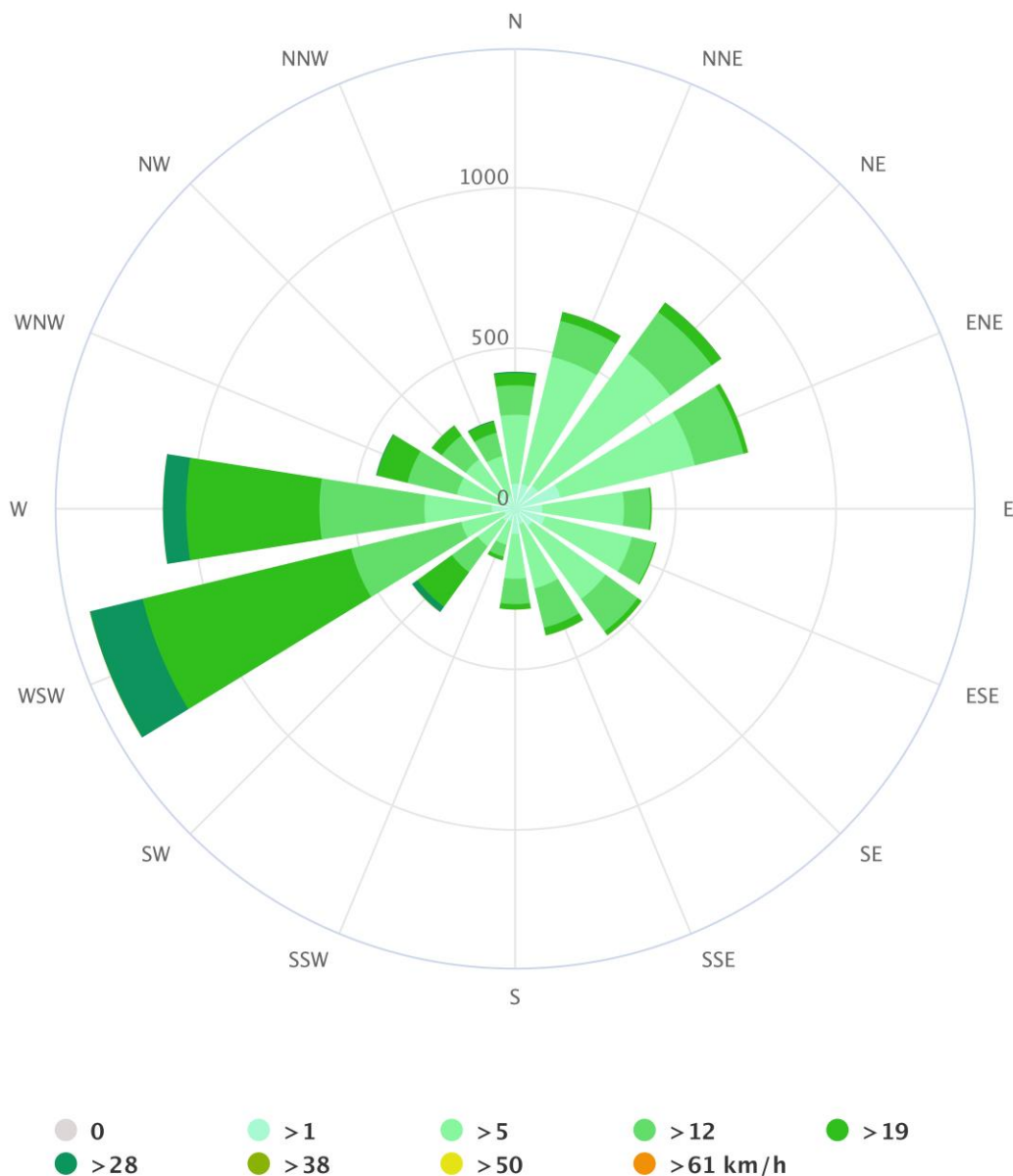
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**EXISTING ENVIRONMENTAL SCENARIO**

**Baseline Environmental Studies**

**Meteorology & Ambient Air Quality**

**Summary of Meteorological data generated at site (January 2020 to December 2020)**



Wind Direction	Frequency %
First Predominant Wind Direction	WSW
Second Predominant Wind Direction	W
Calm conditions (%)	46

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### **Ambient Air Quality Status**

From the results, it is observed that the ambient air quality with respect to PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> 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 or private land in the Ordinary Sand. There is no rehabilitation and resettlement involved in the project.
- The said Quarry provides direct employment to 17 people and generates indirect employment for 34 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 Sand Block. 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 Sand Blocking 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.

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### **PROJECT BENEFITS**

The Sand Blocking 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. Srimanth Jagadevappa Indi will carry out community welfare activities in the following areas:

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

A budget of Rs. 2.54 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 159 Lakhs. It is proposed to provide an amount of Rs. 16.88 Lakhs per annum as recurring expenses towards implementation of the environmental action plan.

### **CONCLUSION**

The Sand Block project of Sri. Srimanth Jagadevappa Indi 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 Sand Block will be positive and will result in overall socio-economic growth of nearby villages.