Pre- Feasibility Report

Area : 0.809 Ha Building Stone (Sandstone) mining project at Araji No’.36/6/5, Village-Sonbarsa, Tehsil- Lalganj, District- Mirzapur, U.P.

Project Proponent
Shri Sarjeet Singh S/o Shri Rajendra Singh

Jan 2021
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## Executive summary:

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<th>Information</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Project Name</td>
<td>Area : 0.809 Ha Building Stone (Sandstone) mining project at Araji No’.36/6/5, Village-Sonbarsa, Tehsil- Lalganj, District- Mirzapur, U.P.</td>
</tr>
<tr>
<td>2.</td>
<td>Project Proponent &amp; Mailing Address with contact no</td>
<td>Shri Sarjeet Singh S/o Shri Rajendra Singh R/o- 410, Kesar Bhawan, Ganeshganj, Aghauli, MIrzapur, U.P. 231001</td>
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<tr>
<td>3.</td>
<td>Location</td>
<td>Village Sonbarsa; Tehsil Lalganj; District Mirzapur; State U.P.</td>
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<tr>
<td>4.</td>
<td>Toposheet No.</td>
<td>63K/8</td>
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<td>5.</td>
<td>Coordinates &amp; Shape of the Gata (NSEW)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>Point</strong></td>
</tr>
<tr>
<td></td>
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<td>A</td>
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<td></td>
<td>D</td>
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<tr>
<td>6.</td>
<td>Name of the Mineral</td>
<td>Building Stone (Sand Stone)</td>
</tr>
<tr>
<td>7.</td>
<td>Capacity of Production</td>
<td>8090 m³/Year,</td>
</tr>
<tr>
<td>8.</td>
<td>Drilling Blasting</td>
<td>Blasting if required (as in PFR)</td>
</tr>
<tr>
<td>10.</td>
<td>Kaccha rasta</td>
<td>100 mt</td>
</tr>
<tr>
<td>11.</td>
<td>Water needs and source</td>
<td>1.6 KLD (Approx 2.0 KLD) through Tankers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>= 0.24 KLD For drinking (for 24 Workers @ 10 LPCD</td>
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<tr>
<td></td>
<td></td>
<td>= 1.2 KLD for Dust Suppression @ 2 lts/ SQM for 100 mts road)</td>
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<tr>
<td></td>
<td></td>
<td>= 0.16 KLD Approx. for Green Belt 40 trees/ Year)</td>
</tr>
<tr>
<td>12.</td>
<td>Power Requirement</td>
<td>-</td>
</tr>
<tr>
<td>13.</td>
<td>Man Power</td>
<td>24</td>
</tr>
<tr>
<td>14.</td>
<td>Lease Period</td>
<td>10 years From Date of Lease Execution</td>
</tr>
<tr>
<td>15.</td>
<td>Project Cost aprox.</td>
<td>73.44 lakh</td>
</tr>
<tr>
<td>16.</td>
<td>Nearest Railway Station</td>
<td>Gaipura Railway Station 8.21 Km NW</td>
</tr>
<tr>
<td>18.</td>
<td>Nearest Highway</td>
<td>NH-7, 6.5 KM &amp; SW, NH-76, 7.6 KM &amp; NW</td>
</tr>
<tr>
<td>19.</td>
<td>Nearest Police Station</td>
<td>Lalganj Police Station is 9.31 Km SW direction.</td>
</tr>
<tr>
<td>20.</td>
<td>Nearest Airport</td>
<td>Babatpur Airport 60.68 Km NE</td>
</tr>
<tr>
<td>21.</td>
<td>Nearest Villages (NSEW)</td>
<td>Sonbarsa 0.39 Km in N Pathkauli 1.23Km in S Kamanpur Kalan 1.23 Km in W Raipura 0.70 km in E</td>
</tr>
</tbody>
</table>
Area: 0.809 Ha Building Stone (Sandstone) mining project at Araji No’.36/6/5 Village-Sonbarsa, Tehsil-Lalganj, District-Mirzapur, U.P.

Pre-Feasibility Report


2 INTRODUCTION OF THE PROJECT/ PROJECT BACKGROUND

2.1 INTRODUCTION OF THE PROJECT

Name & Location of project: Area: 0.809 Ha Building Stone (Sandstone) mining project at Araji No’.36/6/5, Village-Sonbarsa, Tehsil-Lalganj, District-Mirzapur, U.P.

Name and address of the project proponent:
Project Proponent: Shri Sarjeet Singh S/o Shri Rajendra Singh
R/o- 410, Kesar Bhawan, Ganeshganj, Aghauli, Mirzapur, U.P. 231001

2.2 Brief description of the nature of project
The Project is mining of minor mineral in the form of Sand Stone Mining from Non agricultural Land. This is used as building material.

2.3 Need of the project and its importance to the country and or region:
The mined out Sand Stone will be used as building material, roofing flooring, road making and there is huge demand in infrastructure industry & Township Projects.

2.4 Demand supply Gap:
As Sand Stone are used as Building material, the demand of mineral is increasing day by day. It is important to have the mining project to sustain the uninterrupted supply and also provide employment to people of nearby areas.

2.5 Export Possibility:
Since the produced mineral will be sufficiently consumed in nearby area as well as other parts of India, so no need of export.

2.6 Domestic / Export Markets:
Out of total production used in India. The domestic demand of the mineral is very high so no possibility of export in present time.

2.7 Employment Generation (Direct and indirect) Due to project:
The project directly generates the employment for the local people and indirectly for the others. Also the marketing of the product generates the employment for peoples of nearby areas.

Project description:

2.8 Type of project including interlinked and interdependent projects, if any:
The project involves mining of Building Stone Sand Stone and it is not interlinked project.
2.9 **Location of Project:**
Location (map showing general location, specific location and project boundary layout) incorporated in the figure given below: -

2.10 **Details of alternate sites considered and the basis of selecting the proposed site, particularly the environment considerations gone into should be highlighted.**
No other site is considered for the proposed project. The land has been allocated by government for the mining only.

**Size or Magnitude of operation:**

The size of the lease area is 0.809 Ha and the production will be 8090 m³ Per Annum.

2.11 **Raw material required along with estimated quantity, likely source, marketing area, of final product/ s, mode of transport of raw material and finished product.**
It is project of Sand Stone mining so No raw material is required during the mining process.

2.12 **Availability of water, its sources**
The total water requirement for the project will be meet out from bore well/ dug wells for drinking purposes and pond/ waste water for dust suppression.

2.13 **Waste generation and disposal of waste**
This project is for Sand Stone so there is 5% generation of waste in form of over burden, mobile toilets will be provided and Very small amount of municipal waste will be generated; however collection bins will be provided for the same and will be dumped in a proper way.

2.13.1 **Generation of waste water**
There is waste water generation during the process, waste water collected after hand and feet washing will be used for dust suppression.

3 **Site Analysis**
   (i) **Connectivity:** The site is NH-7, 6.5 KM (SW) & NH-76, 7.6 KM (NW)
   (ii) **Land form, land use and land ownership**
The lease area is located in rocky terrain. The lease area is dominated by Rocky surface. This land is good for mining. After mining the open pits will be filled with over burden or will be declared as water reservoir. The land/ project site is on leasing, area comprises of Govt. waste land there is neither road nor habitation in the area

**Topography Along With Maps:**
The elevation of the project site is 113.1 mt. AMSL.
Area: 0.809 Ha Building Stone (Sandstone) mining project at Araji No.36/6/5 Village-Sonbarsa, Tehsil- Lalganj, District- Mirzapur, U.P.

5.0 km Radius Google Map of the area

500m Radius Google Map of the area
(iii) **Existing land use pattern and distances from forests, CRZ, etc.**

The mining lease area is neither agricultural nor forest land and there is plenty of mineral available in this area. The distance from the forests roads is given below:

- Nearest National / State Highway- NH-7, 6.5 KM & SW, NH-76, 7.6 KM & NW
- Nearest Railway Station- Gaipur Railway Station 8.21 Km NW
- Nearest Airport – Babatpur Airport 60.68 Km NE
- Nearest Water Bodies-Ganga River 11.68 Km N, Khajuri Nala, 1.2 KM & E
- Nearest Forest- Manda R.F 9.5 Km & SW, Jaipur R.F 1.4 Km & NW, Kasaira R.F 2.3 Km & SW, Ranibari R.F 3.8 Km & SW, Bami R.F 1.8 Km & SE, Dhasra R.F 3.1 Km & S, Majhiar R.F 2.3 Km & SW, Jaikar Khunian R.F 8.5 Km & SE, Dangharkheri R.F 8.7 Km & S, Lalganj R.F 6.4 Km & SW, Khajuri Nala 1.2 Km & E, Mahdawi R.F 4.5 Km & NE, Vindhyachal R.F 3.2 Km & E, Karanpur R.F 8.2 Km & E, Bahuti R.F 8.5 Km & SE
- Railway Line- 8.4 KM & NW

(iv) **Existing infrastructure:**

**Road facility:** Site is well connected with roads.

(v) **Soil classification**

The pH of the soil varies from 7.8 to 8.1 indicating neutral to slightly alkaline. The electrical conductivity is in the range of 81 µS/cm to 236 µS/cm. The nitrogen values range between 50.0 Kg/ha to 90.1 Kg/ha. The phosphorus values range between 34 Kg/ha to 85 Kg/ha, indicating that the phosphorus content in the study area falls in medium to more than sufficient category. The potassium values range between 90.1 Kg/ha to 220 Kg/ha. The chlorides were found to be in the range of 560.5 Kg/ha to 822.9 Kg/ha of soil.

(vi) **Climate**

The area features the typical version of a humid subtropical climate that is common to cities in north-central India. There is mainly three seasons: hot dry summer, cool dry winter and warm humid monsoon. The summer season lasts from April to June. Monsoon begins in early July and lasts till October. The winter season lasts from December to February.

- **Temperature**

Mirzapur has a relatively subtropical climate with high variation between summer and winter temperatures. The average temperature is 30 °C–42 °C in the summer and 2 °C–15 °C in the winter. The weather is pleasant in rainy season from July to October.

- **Rainfall**

The annual rainfall of Mirzapur district is 900 mm and mainly occurred from July to October. Remaining months of the year are mainly dry. During monsoon surplus water is available for deep percolation to ground water.
Social infrastructure Available

Existing: The project site is located in Sonbarsa, Tehsil- Lalganj, District- Mirzapur, U.P. Which is well connected through kaccha/pucca roads. Villages, near to the project site, have primary school, primary health center, post office and branches of nationalized banks. All the villages are connected by telephone and electricity grid.

Water Supply: The major source of water is ground water for the peoples. Ground water is used for drinking and other purposes.

Planning Brief and Mining process

- Local villagers will be employed for the exploitation and mining operation of the mineral.
- The project involves the mining of Sand Stone Mining.
- Mining will be done in manual manner.
- A minimum of 7.5m buffer will be kept.
- Maximum depth will be as per mining plan

3.1 Drilling & Blasting

Blasting if required will be done with the prior permission of concerned department, proper mitigation measures will be taken before blasting

5.2 Green Belt Development

To prevent different impact of mining process a 7.5 m wide green belt will be provided within the mine lease area. Native trees will be planted on site to maximize the survival rate. Plantation will also be done on connecting road as per permission of Govt.

Rehabilitation and resettlement (R & R) Plan

R & R plan is not applicable for this project as the mines in nearby areas are under operation for many years. The land is non-forest barren land. Local people will be employed for mining work. Economic and social status of the local people will be improved after mining work, because local people get employment.

7. Project Schedule and cost estimates

The Environment Clearance is sought for Excavation in lease area. Once the EC will be granted the Excavation of mineral will be done. All the mining process will be done during day time only, mining will be done from October to May month of the year. There will be no mining in rainy season. The project Cost will approximately be 73.44 lakh Approx.
8. Road Map