

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE  
FOR  
ADDITION OF MINERAL SANDSTONE & ENHANCEMENT  
OF PRODUCTION  
FOR  
MASONARY STONE & SANDSTONE MINE**

**(MINOR MINERAL, CATEGORY - B2)  
NEAR VILLAGE - BUJAWAD,  
TEHSIL - LUNI,  
DISTRICT- JODHPUR, (RAJ.)  
ML NO. - 98/2004  
AREA - 1.0 HECTARES**

**PROPOSED PRODUCTION CAPACITY – 80,000 MT  
PROJECT COST: - 60 LAKHS**

**PROJECT PROPONENT**

**Shri Baga Ram S/o Sh. Girdhari Ram  
R/o – Village – Bujawad, Gangana,  
Tehsil – Luni, District – Jodhpur (Raj.)  
Email – [bagaram1978@gmail.com](mailto:bagaram1978@gmail.com)  
Mob. - 9414319123**

**ENVIRONMENT CONSULTANT:**

**M/S R.K. CONSULTANTS  
(NABET ACCREDITED CONSULTANT ORGANIZATION)  
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# FORM I

**APPENDIX I**  
**(See paragraph – 6)**  
**FORM 1**

**(I) Basic Information**

S. No.	Item	Details
1.	Name of the project	Masonry Stone & Sandstone Mine
2.	S. No. in the schedule	S. No. 1(a) mining of mineral is Categorized in category “B” under S. No. 1 (a) (≤50 hectare of mining lease area). As per Gazette Notification dated 14th September 2006 & its amendments December 2009, April, 2011, Sept., 2013, 2016 & 2018. The Environmental Clearance has been made mandatory for minor minerals having lease area less than 5 ha.
3.	Proposed capacity/area/length/ tonnage to be handled/command area/lease area/number of wells to be drilled	Proposed Capacity: 80000 TPA of Masonary Stone & Sandstone . M.L. Area: 1.0 hectare
4.	New/ Expansion/ Modernization	Expansion (Increase in production capacity from 50000 TPA to 80000 TPA of mineral iin the lease & addition of mineral Sandstone
5.	Existing capacity / Area etc.	The area of 1.0 Hectares. Applicant has applied for EC for the enhancement of production of Masonary Stone & Sandstone.
6.	Category of project i.e. `A` or `B`	Category `B`.
7.	Does it attract the general condition? If yes, please specify.	No, it does not attract the general Condition.
8.	Does it attract the specify condition? If yes, please specify.	No, it does not attract the specific Condition.

9.	Location	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Near Village</td> <td>Bujawad</td> </tr> <tr> <td>2.</td> <td>Tehsil</td> <td>Luni</td> </tr> <tr> <td>3.</td> <td>District</td> <td>Jodhpur (Raj.)</td> </tr> <tr> <td>4.</td> <td>Toposheet No.</td> <td>45B/15 &amp;16</td> </tr> <tr> <td>5.</td> <td>FRP</td> <td>Mata ji ka Temple</td> </tr> </tbody> </table>	S. No.	Particulars	Details	1.	Near Village	Bujawad	2.	Tehsil	Luni	3.	District	Jodhpur (Raj.)	4.	Toposheet No.	45B/15 &16	5.	FRP	Mata ji ka Temple
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5.	FRP	Mata ji ka Temple																		
Demarcation report with lease map is enclosed As <b>Annexure No. I.</b>																				
Plot/ Survey/ Khasra No.	M.L. No. 98/04 (Khasra No. 34).																			
Village	Bujawad (about 0.85 Km in SW)																			
Tehsil	Luni (about 25 km far from the village in SE)																			
District	Jodhpur (about 15 km from the village in NE)																			
State	Rajasthan																			
10.	Nearest railway station/ airport along with distance in kms.	<ul style="list-style-type: none"> <li>• <b>Railhead</b> : Bagat Ki Koti (Jodhpur) (about 11.76 km in NE)</li> <li>• <b>Airport</b>: Jodhpur (about 15 Kms. in NE)</li> </ul>																		
11.	Nearest Town, city, District Headquarters along with distance in kms.	<ul style="list-style-type: none"> <li>• <b>Town</b>: Jodhpur (about 15 km in NE ).</li> <li>• <b>City</b>: Jodhpur</li> <li>• <b>District Headquarter</b> : Jodhpur</li> </ul>																		
12.	Village Panchayats, Zila Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	<ul style="list-style-type: none"> <li>• <b>Village Panchayat</b> – Bujawad</li> <li>• <b>Nagar Palika</b> – Jodhpur</li> <li>• <b>Zila Parishad</b> – Jodhpur</li> <li>• <b>Municipal Corporation</b> - Jodhpur</li> <li>• <b>Postal address with telephone no.</b> Bujawad , Luni District – Jodhpur (Raj.)</li> </ul>																		
13.	Name of the applicant	<b>Shri Baga Ram S/o Shri Girdhari Ram</b> Applicant is a private individual.																		
14.	Registered Address	<b>Shri Baga Ram S/o Shri Girdhari Ram</b> Village- Gangana, Tehsil - Luni, District- Jodhpur (Raj.)																		
15.	Address for correspondence	<b>Applicant:</b> <b>Shri Baga Ram S/o Shri Girdhari Ram</b> Village- Gangana, Tehsil - Luni, District- Jodhpur (Raj.) Email: <i>bagarambujawad@yahoo.com</i> Fax No.: NOT AVAILABLE <b>Env. Consultant:</b>																		

		M/s R.K.Consultants 17E/777, Chopasni Housing Board Jodhpur Tele Fax - 0291 - 2706098, E-mail: - <a href="mailto:rkconsultantsjodhpur@gmail.com">rkconsultantsjodhpur@gmail.com</a>
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	No alternative site has been taken into consideration due to availability mineral at particular location
17.	Interlinked Projects	None
18.	Whether separate application of interlinked project has been submitted?	Not Applicable
19.	If yes, date of submission	Not Applicable
20.	If no, reason	It's an independent project.
21.	Whether the proposal involves approval/ clearance under: if yes, details of the same and their status to be given. (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C. R. Z. Notification, 1991?	No No No
22.	Whether there is any Government Order/ Policy relevant/ relating to the site?	The area was demarcated on 08.07.06 by department of Mines and Geology, Jodhpur. Demarcation report is enclosed as <b>Annexure No. I.</b> This mining lease was granted in name of Shri Baga Ram S/o Shri Girdhari Ram for a period of thirty years from date of registration i.e. on 21.07.06. Photocopy of Rider Agreement is enclosed as <b>Annexure No. II.</b> Inclusion of mineral of mineral sandstone with addition to earlier sanction mineral Masonary Stone has been taken place vide DMG letter No.

		DIR/P.2 (h.4) JOD/M.L. No./98/2004/2017/710 dated 16.05.2018 <b>photocopy of inclusion letter is enclosed as Annexure - III</b> Area is not falling in the Aravali Hill Ranges. Refer <b>Annexure No IV</b> Aravali letter stated that area do not fall in the hill ranges. Refer <b>Annexure V</b> showing map of Location of other mine within 500mts radius from periphery of lease area.
23.	Forest land involved (hectares)	None
24.	Whether there is any litigation pending against the project and/ or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/ directions of the Court, if any and its relevance with the proposed project.	No litigation is pending against the project or the land in which this project is proposed to be set up.

**(II) Activity**

**1. Construction operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography land use changes in water bodies etc.)**

S. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	<ul style="list-style-type: none"> <li>▪ As per revenue records the area for the proposed project is categorized as Govt. waste Land. There will be impact on land use and topography of the area due to mining operations.</li> <li>▪ The lease area is a part of hillock topography.</li> <li>▪ The highest contour in the area is 256 mRL</li> </ul>

			<p>and the lowest contour is 252 mRL.</p> <ul style="list-style-type: none"> <li>▪ There is no forest land in the area.</li> <li>▪ There is no well situated in the lease and there is no nalla flowing in the area but one Gollasni Nadi is flowing at a distance of 2.84 Km. in SE from the lease area.</li> <li>▪ During rainy season, rain water flows down to the general slope and flows into the nearby fields outside the lease area.</li> <li>▪ The proposed method of mining will be open cast semi mechanized. drilling and blasting is involved.</li> <li>▪ For the systematic working of open cast mines, benching will be done. The height of bench will not be kept more than 6 m at a time and the width of benches will be always more than the height.</li> <li>▪ At the end of life of mine total excavated area will be 0.8836 hectares which of the area will be used as water reservoir &amp; Backfill.</li> <li>▪ The plantation done outside area and remaining plants were planted in phase manner in an area of 33% of total area.</li> <li>▪ No plantation and dense vegetation is observed except some thorny bushes and Local Plant i.e Neem Babool, Vilayati Babool etc.</li> </ul>
1.2	Clearance of existing land, vegetation and buildings?	Yes	<ul style="list-style-type: none"> <li>▪ The lease area exists in the govt. waste Land, and is devoid of any significant vegetation and building thus no clearance is required.</li> </ul>
1.3	Creation of new land uses?	Yes	<ul style="list-style-type: none"> <li>▪ Mining and its related activities will change the land use pattern and topography of the area.</li> </ul>

			<ul style="list-style-type: none"> <li>▪ At the end of the life of mine total excavated area will be 0.8836 hac. And will be used for water reservoir (0.7017 hect.) &amp; Backfill (0.1819 hect.).</li> </ul>
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	Not applicable
1.5	Construction works?	Yes	<ul style="list-style-type: none"> <li>▪ As per approved mining plan the statutory requirements like mine office cum rest shelters, First Aid Centre, Toilets, etc. have been proposed at the lease area .</li> </ul>
1.6	Demolition works?	No	<ul style="list-style-type: none"> <li>▪ No demolition is proposed at the mining site.</li> </ul>
1.7	Temporary sites used for construction works of housing of construction workers?	No	<ul style="list-style-type: none"> <li>▪ Local villagers will be employed thus no specific Site is required for constructing the houses for the workers. Rest shelters have been proposed for the workers.</li> </ul>
1.8	Above ground buildings structures , cut and fill or excavations	Yes	<ul style="list-style-type: none"> <li>▪ Construction of mine office cum rest shelter, toilets, First Aid center etc. will be done at the lease area.</li> <li>▪ Earthworks: Excavation operations for mining will be carried out.</li> </ul>
1.9	Underground works including mining or tunneling?	No	<ul style="list-style-type: none"> <li>▪ No underground working.</li> </ul>
1.10	Reclamation works?	Yes	<ul style="list-style-type: none"> <li>▪ There will be some waste to be produced during the mining which will be not usable as a masonry stone &amp; sandstone. This mineral reject will be treated as a waste and stacked in the lease area &amp; will be used for backfilling of part of the excavated area..</li> <li>▪ In the next two year there is no proposal for reclamation of the land affected by mining because the bottom of the Masonary stone &amp; sandstone will not be reached.</li> <li>▪ At the end of the life of mine total excavated</li> </ul>



			<p>area will be 0.8836 hac. And will be used for water reservoir (0.7017 hect.) &amp; Backfill (0.1819 hect.). Thus no waste dump left at the end of the life of the mine.</p> <ul style="list-style-type: none"> <li>▪ Mineral reject will be stacked separately within the lease area.</li> <li>▪ The plantation done outside area and remaining plants were planted in phase manner in an area of 33% of total area.</li> </ul>
1.11	Dredging?	No	<ul style="list-style-type: none"> <li>▪ There is no Dredging involved in this Lease area.</li> </ul>
1.12	Offshore structures?	No	<ul style="list-style-type: none"> <li>▪ Not applicable</li> </ul>
1.13	Production and manufacturing processes?	Yes	<ul style="list-style-type: none"> <li>▪ The proposed method of mining will be semi mechanized open cast mining with drilling and blasting.</li> <li>▪ Drilling of the holes will be done through compressed air operated jackhammer.</li> <li>▪ The explosive shall be handled by the blasting party and blasting will be done by the blasting contractor. Hence no storage is required for explosive at the site.</li> <li>▪ The working will be done by forming systematic benches. The height of bench will not be kept more than 6 m at a time and the width of the benches will always be more than the height.</li> <li>▪ At the end of the two year 160005 MT of masonry stone &amp; Sandstone will be excavated.</li> <li>▪ Waste generated fine rock fragments produced during the mining will be treated as waste. At the end of the two year 20028 cum of reject will be generated and will be stacked</li> </ul>

			inside lease
1.14	Facilities for storage of goods or materials?	Yes	<ul style="list-style-type: none"> <li>▪ Mineral &amp; generated waste will stack temporary at the earmarked site &amp; then mineral will be transported from mine site to required destination.</li> </ul>
1.15	Facilities for treatment of disposal of solid waste or liquid effluents?	Yes	<ul style="list-style-type: none"> <li>▪ <b>Solid Wastes:</b> The waste obtained weathered granule masonry stone &amp; sandstone will be stacked separate near boundary &amp; will be used for backfill</li> <li>▪ <b>Liquid Waste:</b> No STP &amp; ETP is required as no waste water will generate.</li> </ul>
1.16	Facilities for long term housing of operational workers?	No	<ul style="list-style-type: none"> <li>▪ Local residents will be employed in the project thus no housing facilities are required at the mine site.</li> </ul>
1.17	New road, rail or sea traffic during construction or operation?	No	<ul style="list-style-type: none"> <li>▪ During the operation phase traffic will increase, however the existing road network will be sufficient to handle the increased traffic load.</li> </ul>
1.18	New road, rail or air waterborne or other transport infrastructure including new or altered routed and stations, ports, airports etc.?	No	<ul style="list-style-type: none"> <li>▪ Existing road network will be adequate. No new road /rail required.</li> </ul>
1.19	Closure or diversion of existing transport routes or infrastructures leading to changes in traffic movements?	No	<ul style="list-style-type: none"> <li>▪ There will be no such change caused due to the proposed project.</li> </ul>
1.20	New or diverted transmission lines or pipelines?	No	<ul style="list-style-type: none"> <li>▪ There is no proposal for new construction or diversion of any transmission lines or pipelines.</li> </ul>
1.21	Impoundment, damming, culverting, realignment of other changes to the hydrology of watercourses of	No	<ul style="list-style-type: none"> <li>▪ There is no water course falling in this lease area.</li> </ul>

	aquifers?		
1.22	Stream crossings?	No	<ul style="list-style-type: none"> <li>▪ There is no any water body or Seasonal stream crossing within the lease area.</li> </ul>
1.23	Abstraction or transfers of water form ground or surface waters?	Yes	<ul style="list-style-type: none"> <li>▪ Total water requirement is about 1-2 KLD.</li> <li>▪ 0.25-0.5KLD(Drinking &amp; Domestic Uses)</li> <li>▪ 0.25-0.5KLD (Plantation)</li> <li>▪ 0.5-1.0 KLD (Dust Suppression).</li> <li>▪ Drinking water &amp; water for dust suppression &amp; for plantation purpose will be made available by nearby villages through the tankers.</li> </ul>
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	Yes	<ul style="list-style-type: none"> <li>▪ Since there is no water course in the lease area thus no change is anticipated on the water bodies, drainage or run off.</li> <li>▪ Excavated area will be used water storage and will create a positive impact on the topography of the area.</li> </ul>
1.25	Transport of personnel or materials for construction operation or decommissioning?	No	<ul style="list-style-type: none"> <li>▪ The staff and the workers involved in the project will use the local transport for communication to the project area.</li> </ul>
1.26	Long-term dismantling or decommissioning or restoration works?	No	<ul style="list-style-type: none"> <li>▪ Long term restoration work goes concurrent with mining operations viz. stacking of mined out waste &amp; mineral reject at earmarked place and development of green belt/plantation.</li> <li>▪ During the conceptual period a part of the excavated area will be used for rain water storage, which will improve the aesthetic beauty of the environment.</li> </ul>
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	<ul style="list-style-type: none"> <li>▪ No activity of commissioning or decommissioning is proposed in this mine area.</li> </ul>
1.28	Influx of people to an area in either temporarily or permanently?	No	<ul style="list-style-type: none"> <li>▪ Technical and managerial staff will be employed for the operation of mines as per the qualifications mentioned in the rules and</li> </ul>

			<p>regulations.</p> <ul style="list-style-type: none"> <li>Mostly local residents from the nearby villages will be deployed for carrying out mineral extraction, maintenance of road and other miscellaneous work.</li> </ul>
1.29	Introduction of alien species?	No	<ul style="list-style-type: none"> <li>Only Local wild species which are already present will be given preference during afforestation programme.</li> </ul>
1.30	Loss of native species or genetic diversity?	No	<ul style="list-style-type: none"> <li>No significant loss of native species will occur</li> </ul>
1.31	Any other actions?	No	<ul style="list-style-type: none"> <li>No other actions are proposed.</li> </ul>

**2. Use of Natural resources for construction or operation of the project (Such as Land, water, material or energy, especially any resources which are non-renewable or in short supply):**

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (Ha)	Yes	<ul style="list-style-type: none"> <li>The land status in the area is govt. waste land.</li> </ul>
2.2	Water (expected source & competing users) unit: KLD	Yes	<ul style="list-style-type: none"> <li>1-2 KLD of water will be required for mining and its allied activities and will be made available from the Village.</li> <li>Water stored in the pit during the rainy season will be used for dust suppression and plantation.</li> </ul>
2.3	Minerals (MT)	Yes	<ul style="list-style-type: none"> <li>80000 MTPA of Masonary Stone &amp; Sandstone is proposed to be produced.</li> </ul>
2.4	Construction material – stone, aggregates, and / soil (expected	No	<ul style="list-style-type: none"> <li>No construction is proposed at the mine site.</li> </ul>

	source – MT)		
2.5	Forests and timber (source – MT)	No	<ul style="list-style-type: none"> <li>No forest or timber products are involved in this project.</li> </ul>
2.6	Energy including electricity and fuel (source, competing users) Unit: fuel (MT) energy (MW)	No	<ul style="list-style-type: none"> <li>No Electricity is required as the machinery used in the mining operations will be diesel operated.</li> </ul>
2.7	Any other natural resources (use appropriate standard units)	No	<ul style="list-style-type: none"> <li>No other natural resource will be required.</li> </ul>

**3. Use, storage transport handling or production of substance or material, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.**

S. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
3.1	Use of substance or materials which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	<ul style="list-style-type: none"> <li>explosive cord will be used for the blasting as per requirement.</li> <li>The explosive shall be handled by the blasting party himself and the blasting will be done by the blasting contractor as per present practice.</li> </ul>
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	<ul style="list-style-type: none"> <li>Proper precautions will be taken up to maintain hygienic conditions of working.</li> </ul>
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	<ul style="list-style-type: none"> <li>Living conditions will change for better as beneficial aspects would be there due to employment generation.</li> </ul>
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patient, children, the elderly etc,	No	<ul style="list-style-type: none"> <li>Impacts of this type are not expected as mine site is far away from settlements and no unauthorized person will be allowed to enter mining area.</li> </ul>

3.5	Any other causes	No	▪ Not Applicable.
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**4. Production of solid waste during construction or operation or decommissioning (MT/month)**

S. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	Yes	<ul style="list-style-type: none"> <li>▪ The waste obtained will be weathered granule masonry stone &amp; sandstone and stacked at the earmarked site within the lease area.</li> <li>▪ Waste generated will be stacked near the boundary pillar.</li> </ul>
4.2	Municipal waste (domestic and or commercial wastes)	No	▪ No municipal waste will generate thus no treatment is required.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	▪ No hazardous process waste will be generated from the proposed project.
4.4	Other industrial process wastes	No	▪ As mineral beneficiation will not be done for the propose project, there will be absence of any industrial process waste.
4.5	Surplus product	No	▪ Mineral excavated will be sent to the local retailers.
4.6	Sewage sludge or other sludge from effluent treatment	No	▪ No sewage will generate thus no treatment is required.
4.7	Construction or demolition wastes	No	▪ No Construction or demolition activity will be done in proposed area.
4.8	Redundant machinery or	No	▪ There is no redundancy of

	equipment		machineries involved, as the machineries are movable and will be removed from the mine lease area after the lease is over and will be used elsewhere.
4.9	Contaminated soils or other materials	No	▪ Due to mining process no contamination of soil will be caused.
4.10	Agricultural wastes	No	▪ No Agricultural waste will generate.
4.11	Other solid waste	No	▪ No other solid waste will generate.

### 5. Release of pollutants or any hazardous, toxic or noxious substance to air (kg/hr)

S. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	<ul style="list-style-type: none"> <li>▪ Diesel equipments used for transportation and mining process will generate insignificant emissions. However, efforts will be made to reduce the diesel consumption with proper maintenance of equipments and machineries, proper calibration of fuel pumps, timely changing of filters etc.</li> </ul>
5.2	Emissions from production processes	Yes	<ul style="list-style-type: none"> <li>▪ Dust will be generated due to drilling Blasting and plying of vehicles</li> <li>▪ Dust is the main pollutant which, will generate from the various production processes like drilling, blasting, handling and transportation of mineral.</li> <li>▪ The measures which will be followed to reduce the scale of dust emissions are:-               <ol style="list-style-type: none"> <li>1. Dry dust extractor will be used.</li> <li>2. Dust mask will be provided to the driller and operator.</li> </ol> </li> </ul>

			<p>3. Water sprinkling will be regularly used on the haul roads.</p> <p>4. Plantation to act as green barrier.</p>
5.3	Emissions from materials handling including storage or transport	Yes	<ul style="list-style-type: none"> <li>▪ Regular water sprinkling on haul roads will suppress the dust particles which will generate during drilling &amp; blasting, material handling, loading of material and during the transportation. Controlled loading and unloading will be done from the stack yards to destination.</li> <li>▪ Regular maintenance of the transporting vehicles and the machineries.</li> </ul>
5.4	Emissions from construction activities including plant and equipment	No	<ul style="list-style-type: none"> <li>▪ No construction activity is proposed in the mine lease area.</li> </ul>
5.5	Dust or odors from handling of materials including construction materials sewage and waste	Yes	<ul style="list-style-type: none"> <li>▪ Emission of dust due to movement of vehicles, loading &amp; unloading, drilling &amp; blasting will produce impact on air.</li> <li>▪ Measures like water sprinkling, green belt development and maintaining haul roads will reduce the dust emissions and impact on air.</li> <li>▪ No odor will generate during the process.</li> </ul>
5.6	Emissions from incineration of waste	No	<ul style="list-style-type: none"> <li>▪ No incineration activity is involved.</li> </ul>
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	<ul style="list-style-type: none"> <li>▪ No waste will be burnt in open air.</li> </ul>
5.8	Emissions from any other sources	No	<ul style="list-style-type: none"> <li>▪ No other emissions will be there.</li> </ul>



**6. Generation of Noise and Vibration, and Emissions of Light and Heat:**

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	<ul style="list-style-type: none"> <li>▪ There will be occasional sound of blasting, compressor and jack hammer when drilling of holes will be made, at the time of backhoe operation and due to movement of transporting vehicles.</li> <li>▪ Standard measures will be taken up to control it. Measures like lubrication &amp; preventive maintenance shall be taken to control noise from the machinery. PPE's like earmuff will be used by employees. Regular noise level monitoring will be done and noise level will be kept within permissible limits.</li> <li>▪ Green belt development will act as sound barrier.</li> </ul>
6.2	From industrial or similar processes	No	<ul style="list-style-type: none"> <li>▪ There is no proposal of process plant.</li> </ul>
6.3	From construction or demolition	No	<ul style="list-style-type: none"> <li>▪ Construction or demolition will not be carried out for the proposed project.</li> </ul>
6.4	From blasting or piling	No	<ul style="list-style-type: none"> <li>▪ The generation of noise and vibration produced due to blasting operation will be controlled by means of</li> </ul>

			controlled blasting using delay detonators and proper charging of the holes.
6.5	From construction or operational traffic	Yes	<ul style="list-style-type: none"> <li>Due to vehicular traffic and material &amp; overburden/waste transportation within the lease area, noise will generate but measures will be taken up to control the noise levels within the DGMS &amp; CPCB norms.</li> </ul>
6.6	From lighting or cooling system	No	<ul style="list-style-type: none"> <li>Mining will be done in day time so no lighting will be required and cooling systems are not required.</li> </ul>
6.7	From any other sources	No	<ul style="list-style-type: none"> <li>No other source of noise and vibration are there.</li> </ul>

**7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface water groundwater, coastal waters or the sea:**

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
7.1	From handling storage use or spillage of hazardous materials	No	<ul style="list-style-type: none"> <li>Oiling and lubrication of hauling vehicles will be done by using oil tray to prevent spillage on soil.</li> <li>Vehicles and machinery will be well maintained to prevent leakage of oil.</li> </ul>
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	<ul style="list-style-type: none"> <li>There is no risk of contamination of land or water as the discharge from domestic sewer will be very insignificant and will be collected</li> </ul>

			in the soak pits only.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	<ul style="list-style-type: none"> <li>▪ Dust generated during the mining process, loading and transportation may cause impact on the air but the measures followed will control the air pollutions.</li> <li>▪ The waste obtained is non toxic in nature and will not cause negative impact on land environment.</li> <li>▪ No liquid waste will generate. Hence there is no risk of contamination of air, water and land.</li> <li>▪ Regular/periodical monitoring will be done. Refer <b>Annexure VI</b> for Environment Management Plan.</li> </ul>
7.4	From any other sources	No	<ul style="list-style-type: none"> <li>▪ No other sources are there</li> </ul>
7.5	Is there a risk of long term build up of pollutants in the environment from these sources	No	<ul style="list-style-type: none"> <li>▪ Not applicable as the M. L. Area is categorized as government waste Land and the waste generated will include fine rock fragments which are non toxic in nature and thus will not risk of building up long term pollutants in the environment.</li> </ul>

**8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment**

S. No.	Information/Checklist confirmation	Yes /No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	No	<ul style="list-style-type: none"> <li>▪ Blasting will be required for the loosening of strata.</li> <li>▪ The explosive shall be handled by the blasting party and blasting will be done by blasting contractor.</li> <li>▪ The mining will be done on the hilly portion and though there is no human settlement in the bottom of the hill, special precautions will be taken to reduce fly rock problem. All the adequate precautions as per provisions MMR 1961 will be taken.</li> <li>▪ The safety precautions like efficient siren will be blown prior to the blasting and at the clearance of blasting.</li> </ul>
8.2	From any other causes	Yes	<ul style="list-style-type: none"> <li>▪ Accidents by transport vehicles due to negligence and/or ignoring the safety aspects.</li> <li>▪ Accidents during mining caused due to negligence or bad mining practice.</li> <li>▪ However, to deal the minor incidences and accidents, first aid measures at site will be provided.</li> </ul>
8.3	Could the project be affected by natural disaster causing environmental damage (e.g. floods, earthquake, landslides, cloudburst etc)?	No	<ul style="list-style-type: none"> <li>▪ The project is located in the Seismic Zone II. There has been no flood, cloudbursts and landslide reported so far.</li> </ul>

**9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality**

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
9.1	<p>Lead to development of supporting. Cities, ancillary development or development stimulated by the project which could have impact on the environment</p> <p>*Supporting infrastructure (roads, power supply, waste or waste water treatment, etc)</p> <p>* Housing development</p> <p>* Extractive industries</p> <p>* Supply industries</p> <p>* Other</p>	No	<ul style="list-style-type: none"> <li>▪ The project will improve the socio-economic status of villages around the mine area.</li> <li>▪ The project will also benefit the local people by generating the employment.</li> <li>▪ Improvement in educational facilities.</li> <li>▪ Provision of Health facilities will be implied.</li> <li>▪ Conditions of the nearby village Roads will be improved.</li> </ul>
9.2	<p>Lead to after use of the site, which could have an impact on the environment</p>	No	<ul style="list-style-type: none"> <li>▪ The lease area is located in the remote area with very little vegetation. The after use of site planned would be better than the present, owing to proposed green belt development in the lease area.</li> <li>▪ Excavated area will be used for the purpose of water</li> </ul>

			<p>reservoir and will develop the aesthetic beauty of the area.</p> <ul style="list-style-type: none"> <li>Plantation will be done over the part of the boundary barrier &amp; outside area.</li> </ul>
9.3	Set a precedent for later developments	No	<ul style="list-style-type: none"> <li>A better after use scenario with increase in greenery.</li> </ul>
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	<ul style="list-style-type: none"> <li>There are few mines in the vicinity of this area.</li> <li>A better planned and executed project has to yield a better result individually; which in turn has to give better cumulative effect also.</li> </ul>

**(III) Environmental Sensitivity**

S. No	Areas	Name/ Identity	Aerial distance (within 15km,) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape cultural or other related value	No	<ul style="list-style-type: none"> <li>No such place is there in 15 km radius.</li> </ul>

2	Areas which are important or sensitive for ecological reasons- Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	<ol style="list-style-type: none"> <li>1. Gollasani Nadi at about 2.84km towards SE direction</li> <li>2. Kailana Lake at about 8.49km towards NE direction</li> <li><b>3. Bujawad Village Pond at about 0.86km towards N</b></li> </ol> <ul style="list-style-type: none"> <li>▪ Barli Bharuji Pond at about 9.20km towards NE direction</li> </ul>
3	Areas used by protected important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Yes	Machiya Biological Park at about 10.0 km towards SE
4	Inland, coastal, marine or underground waters	No	<ul style="list-style-type: none"> <li>▪ No such place is there in 15 km radius</li> </ul>
5	State, National boundaries	No	<ul style="list-style-type: none"> <li>▪ No such place is there in 15 km radius</li> </ul>
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Yes	<ul style="list-style-type: none"> <li>▪ Jodhpur tourist place at about 10.0 km towards.</li> </ul>
7	Defense installations	Yes	<ul style="list-style-type: none"> <li>▪ Jodhpur at about 11.5km</li> </ul>
8	Densely populated or built up area	Yes	<p>Village Bujawad</p> <ul style="list-style-type: none"> <li>▪ As per Census 2011 the population of Bujawad is 1067 at about 0.85 Km towards South direction.</li> </ul>

9	Areas occupied by sensitive man made land uses (hospitals, schools, places of worship, community facilities)	Yes .	<ul style="list-style-type: none"> <li>• Upper Primary school present at Bujawad at about 0.85 km</li> <li>• Sec Sec School present at Jhanwar at about 6.0km</li> </ul> <p>Govt Hospital present at Jhanwar &amp; Jodhpur at about 6.0km&amp; 10km</p>
10	Areas containing important, high quality or scarce resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Yes	<ul style="list-style-type: none"> <li>▪ Mineral Masonary stone &amp; Sandstone is abundantly available in this area. Thus mining industry is the chief source of income.</li> </ul>
11	Areas already subjected to pollution or environmental damage (those where existing legal environmental standards are exceeded)	No	<ul style="list-style-type: none"> <li>▪ None within 15 km radius.</li> </ul>
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	No	<ul style="list-style-type: none"> <li>▪ The study area of the lease area falls in Zone II of the Seismic Map.</li> <li>▪ There has been no incidence of landslide, earthquake or flooding.</li> </ul>



#### **(IV) Proposed Terms of Reference for EIA studies**

The lease area of Masonary stone & Sandstone Mine is situated Near Village Bujawad, Tehsil – Luni and District – Jodhpur, Rajasthan in an area of 1.0 hectare. As per our field study there is negligible impact of the project activity on environment so accord us environment clearance as per the provisions of the EIA Notification dated 14th Sept. 2006 vide para clause 7.0 sub-clause 7(i)1 under stage (1) – Screening, it provides that the case of Category ‘B’ projects or activity.

#### **Objectives**

The proposed production capacity of the project is 80000 MTPA of Masonary stone & Sandstone. As the project in reference to the EIA notification Sep, 2006 and its amendments December, 2009, April, 2011, September 2013 & December 2013, 2016 & 2018 has been categorized under B. So project may be assessed for Environment Clearance.

I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

**Place: Jodhpur**

**Baga Ram S/O Sh. Girdhari Ram  
(Mine Owner)**

**Date:**

**Enclosed: Pre Feasibility Project Report with Annexure**