

FORM – I

(I) Basic Information

S. No.	Item	Details
1.	Name of the Project's	Mandolai Granite Mine Area.

		(Ref. No.-201810000726)
2.	S. No. in the schedule	B2 Category
3.	Proposed capacity / area / length / tonnage to be handled / command area / lease area / number of well to be drilled.	Proposed Production–129636 TPA Lease area–1.19 Hect.
4.	New / Expansion / Modernization.	New
5.	Existing Area etc.	1.19 Hect.
6.	Category of Project i.e. “A” or “B”	“B2”
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If yes, please specify.	No
9.	Location	N- 26° 11’ 13.5” to 26° 11’ 19.1” E- 75° 18’ 36.2” to 75° 18’ 42.1”
	Khasra No.	866 (Pvt. Land)
	Near Village	Mandolai
	Tehsil	Todarai Singh
	District	Tonk
	State	Rajasthan
10.	Nearest Railway Station along with distance in Km (by Air). Nearest Airport along with distance in Km (by Air).	Nasirabad Railway Station (About 57 Km in NW direction). Jaipur International Airport (About 87 KM in NE direction) .
11.	Nearest Town, District Headquarter, State	Junia, Tonk, (Rajasthan).
12.	Village Panchayat / Zila Parishad / Municipal Corporation /	Village Panchayat–Mandolai Zila Parishad–Tonk
13.	Name of the Applicant/Lessee	Shri Jai Ram Buldak R/o-Dher Ki Dhani, Jusari, Tehsil- Makrana, Dist. Nagaur (Raj.) Shri Dashrath Singh R/o- 23, Basant Vihar B, Vaishali Marg, Panchyawala, Jaipur (Raj.) Shri Gopal R/o- Village – Mandolai, Tehsil- Todarai Singh, District- Tonk (Raj.) Shri Kailash R/o- Village – Mandolai, Tehsil- Todarai Singh, District- Tonk (Raj.)
14.	Registered Address	

15.	Address for Correspondence	
	Name	
	Designation(Owner/Partner/CEO)	Owner
	Address:	
	Pin code	341509
	E mail	dashrathsingh726@gmail.com
	Telephone No./ Mobile No.	9460753700
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo-sheet.	N.A. Plot area is site specific. Key Plan Enclosed (Plate No. 2).
17.	Interlinked Project	No
18.	Whether separate application of interlinked project has been submitted.	No
19.	If yes, date of submission	N.A.
20.	If no reason	N.A.
21.	Whether the proposal involves approval / clearance under :	
	a) The Forest (Conservation)Act, 1980	No
	b) The Wildlife (Protection)Act, 1972	No
	c) The C.R.Z. Notification,1991	No
22.	Forest land Involved (Hect.)	No
23.	Whether there is any litigation pending against the project and/or land in which.	No

(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	<p>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)</p> <p style="text-align: center;">Land use pattern (Hect.)</p> <table> <tr> <th>Land use Category</th><th>Pre Operational Phase</th><th>Operational Phase</th><th>Post Operational</th></tr> <tr> <td>Top Soil Dump</td><td>--</td><td>0.01</td><td>---</td></tr> <tr> <td>Waste Dump (External)</td><td>--</td><td>0.07</td><td>--</td></tr> <tr> <td>Excavation (Voids Only)</td><td>--</td><td>0.7600</td><td>0.8525 (Water Resviour)</td></tr> <tr> <td>Road</td><td>--</td><td>0.03</td><td>--</td></tr> <tr> <td>Infrastructure</td><td>--</td><td>0.01</td><td>--</td></tr> <tr> <td>Township Area</td><td>--</td><td>----</td><td>----</td></tr> <tr> <td>Afforestation</td><td>--</td><td>0.2800</td><td>0.3375 (Plantation)</td></tr> <tr> <td>Mineral/Sub-grade Stack</td><td>--</td><td>0.03</td><td>--</td></tr> <tr> <td>Mineral Storage</td><td>--</td><td>--</td><td>--</td></tr> <tr> <td>Processing (Crushing)</td><td>--</td><td>----</td><td>--</td></tr> <tr> <td>Undisturbed Area</td><td>1.19</td><td>--</td><td>--</td></tr> <tr> <td>Total</td><td>1.19</td><td>1.19</td><td>1.19</td></tr> </table> <p><i>*About 0.8525 Hect. area will be used as water reservoir.</i></p>	Land use Category	Pre Operational Phase	Operational Phase	Post Operational	Top Soil Dump	--	0.01	---	Waste Dump (External)	--	0.07	--	Excavation (Voids Only)	--	0.7600	0.8525 (Water Resviour)	Road	--	0.03	--	Infrastructure	--	0.01	--	Township Area	--	----	----	Afforestation	--	0.2800	0.3375 (Plantation)	Mineral/Sub-grade Stack	--	0.03	--	Mineral Storage	--	--	--	Processing (Crushing)	--	----	--	Undisturbed Area	1.19	--	--	Total	1.19	1.19	1.19	Yes	<p>1) The Lease Area comprises Pvt. Land.</p> <p>2) The topography of the area is Flat. The highest elevation of the lease area is 331mRL & lowest elevation is 328mRL.</p> <p>3) The permanent change in land use within the lease area due to mining. Detail of land use up to post-operational phase is given in tabular form.</p>
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1.2	Clearance of existing land, vegetation and buildings?	No	The Lease area is Pvt. Land (1.19 Hect.). Lease area is a part of hill and no buildings in the area. So no clearance will be required for existing land, vegetation, and building.																																																				
1.3	Creation of new land uses?	Yes	In way of pitting & plantations. Details given in tabular form in above point																																																				

			1.1.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	--
1.5	Construction works?	No	--
1.6	Demolition works?	No	--
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	The laborers deployed are from nearby villages only. Rest shelter will be provided. As per the rule 62 & 63 of Mines Rules 1955.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	Mine excavation in the form of pits.
1.9	Underground works including mining or tunneling?	No	--
1.10	Reclamation works?	Yes	At the Post-operational Phase <div> <div>Planta tion</div> <div>In the post operational phase, about 390 saplings will be planted near Pvt. Land, road side and Statuary Barrier .</div> </div>
1.11	Dredging?	No	--
1.12	Offshore structures?	No	--
1.13	Production & manufacturing processes?	Yes	Granite Mine-129636 TPA. Open Cast Semi-Mechanized method, Benches of 6m height and width is 6m or more than height. Drilling will be done by Jackhammer as requirement. The drilling and blasting is done as per the requirement. The material will be used in construction work etc.
1.14	Facilities for storage of goods or materials?	Yes	In the office / store at project site.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Total mineral will be used in decorative stone, flooring solid waste will be used in road, building construction etc. & no top soil (Hence observed in upper layer will be in 0.01

			Hect.) in the area. No liquid effluent will be discharged.
1.16	Facilities for long-term housing of operational workers?	No	The mine workers are from nearby villages so no long-term housing facility is required.
1.17	New road, rail or sea traffic during construction or operation?	No	Tipper/dumpers are required for material transportation from project site to destination.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	The existing mode of transportation will be used. No new facility is required.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	--
1.20	New or diverted transmission lines or pipelines?	No	--
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	--
1.22	Stream crossings?	No	--
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	There is no flowing water stream or lake as a surface water source in the core zone. Requirement of water in the area is mostly from PHED supply & underground sources through tube well situated near by the lease area.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	No change in water bodies, drainage or runoff is anticipated.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Road transportation for personnel will be arranged by lessee vehicles and material will be transported by Tippers/dumpers.
1.26	Long-term dismantling or decommissioning or restoration works?	No	--
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	--
1.28	Influx of people to an area in either temporarily or permanently?	Yes	About 18 people were employed. Most of the people

			are employed from nearby villages.
1.29	Introduction of alien species	No	--
1.30	Loss of native species or genetic diversity?	No	No loss of native species or genetic diversity.
1.31	Any other actions	No	--

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

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	Private land is used for mining.	
2.2	Water (expected source & competing users) unit : KLD	Yes	PHED Supply & Hand pump/Tube well situated in nearby the lease area & water tanker and no competing users. Detail of water requirements in KLD as given below :	
			1. Dust Sup. & Sanitation	1.9
			2. Drinking	0.5
			3. Green belt	1.0
			4. Wire Saw Cutting	0.9
			Total	4.3
2.3	Minerals(MT)	Yes	Granite-129636 TPA	
2.4	Construction Material-Stone, aggregates and /soil(expected source-MT)	No	--	
2.5	Forest and timber(Source-MT)	No	--	
2.6	Energy including electricity and fuels (source. Competing users) Unit : fuel(MT), energy(MW)	Yes	No electricity is required. Fuel (HSD) will be obtained from authorized public fuel station & about 0.4 KLD H.S.D. will be used.	
2.7	Any other natural resources(use appropriate standard units)	No	--	

3. Use, storage, transport, handling or production of substances or materials, 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 substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	Drill hole will be filled with slurry explosive for column charge & booster and blasting with excel. Explosive will be handled and used by persons certified under MMR 1961.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	--
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Mine management look after the undeveloped area to improve the socio-economic level and enhance the skill of the local people. About 18 persons got employed. Village Mandolai is adopted for social development. Total fund is about Rs. 0.77 Lac /Annum.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	--
3.5	Any other causes	No	--

4.0 Production of solid wastes 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	Soil, overburden or mine wastes	Yes	Total mineral will be used in the Building & road, construction etc. If soil encountered, soil will be stacked at separate site, and it will be simultaneously used for plantation. Waste will be used in the backfilled in the mined out area.

4.2	Municipal waste (domestic and or commercial wastes)	No	Domestic and office effluent will be treated in individual septic tanks.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	--
4.4	Other industrial process wastes	No	--
4.5	Surplus product	No	--
4.6	Sewage sludge or other sludge from effluent treatment	No	Toilet waste will be attached to soak pit, when removed used as fertilizer in plantation.
4.7	Construction or demolition wastes	No	--
4.8	Redundant machinery or equipment	No	Not, till closer of mining operation. Machinery will be used at the other site.
4.9	Contaminated soils or other materials	No	--
4.10	Agricultural wastes	No	--
4.11	Other solid wastes	No	--

5. Release of pollutants or any hazardous, toxic or noxious substances 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	HSD (0.4 KLD) will be used in machineries during mining. Mostly mobile equipment's and their expected emission will be very less and will have less impact.
5.2	Emissions from production processes	Yes	The production process will involve excavation and loading which will generate emissions and will cause little impact.
5.3	Emissions from materials handling including storage or transport	Yes	Dust emission from handling of mineral and transport, which will be very less and cause very less impact.
5.4	Emissions from construction activities including plant and equipment	No	--
5.5	Dust or odors from handling of materials including construction materials, sewage and waste	No	Only dust emission from handling of mineral, which will very less and not cause any negative impact. No

			odor will develop.
5.6	Emissions from incineration of waste	No	--
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	--
5.8	Emissions from any other sources	No	--

6.0 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	Noise from operation of drill machine & dumper / tippers.
6.2	From industrial or similar processes	No	--
6.3	From construction or demolition	No	--
6.4	From blasting or piling	Yes	Blasting in small scale will be done so noise will be momentary. There will be vibrations from blasting but no long term impact on nearby area will be anticipated.
6.5	From construction or operational traffic	Yes	During operational stage running of dumpers/tippers will produce very less noise, which will not cause any impact.
6.6	From lighting or cooling systems	No	--
6.7	From any other sources	No	--

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, 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	Explosives will be procured / supplied by license contractor on the day of working and will be handled and used by persons certified under MMR 1961.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Only waste water discharged to land will be from septic tanks.

7.3	By deposition of pollutants emitted to air into the land or into water	No	Dust settling on land is expected to be very low and will be non-toxic.
7.4	From any other sources	No	--
7.5	Is there a risk of long term buildup of pollutants in the environment from these sources?	No	--

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	Yes	Hazardous substance will be only explosive for which there are separate laws which will be strictly followed.
8.2	From any other causes	Yes	The risks of accidents are envisaged due to the operation of equipment's, failure of mine pit etc. Pits slope will be kept at 45°. No loose stone or debris will be allowed to remain near the edges of excavation and along the sites of haul road. However, good safety practices are adopted at the site. All precautionary measures are adopted and uses of protective equipment's are mandatory. However, to meet the minor incidences and accidents first aid measures at site will be provided.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. Floods, earthquakes, landslides, cloudburst etc)?	No	Low probability of earthquake as the area falls in seismic zone II. No landslides or cloud burst have been observed in recent years.

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 / Check list confirmation	Yes / No	Details thereof (with approx. quantities /rates, wherever possible) with source of information
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			data
9.1	Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries 	Yes	Proposed project will result in further growth of the surrounding area by increasing direct and indirect employment opportunities in the region. All supporting temporary infrastructure is developed. Temporary Office, rest shelters, are constructed & first aid is provided.
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	The top mined out benches will be converted and used as a water storage, it will be recharge the ground water table.
9.3	Set a precedent for later developments	Yes	Mined out area will ultimately be fenced properly all around its periphery to prevent any entry into the area.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	A number of small mines in surrounding area have either restarted or increases combined environmental impacts, particularly due to increased road traffic for minerals transport / dispatch. Mitigation measures to control environment pollution in mine are carried out to minimize the impact.

(III) Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	-

2.	Areas which are important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	Available water bodies and rivers falls within 10 Km radius Buffer zone as follows: <table><tr><td>Water bodies</td><td>Distance & Direction</td></tr><tr><td>Sodara River</td><td>About 8.2 Km NW Direction.</td></tr><tr><td>Pond At Mandolai</td><td>About 3.0 Km SW direction.</td></tr><tr><td>Pond At Mandolai</td><td>About 800 Meter Km NEdirection.</td></tr><tr><td>Tordi Sagar</td><td>About 8.2 Km NE direction.</td></tr><tr><td>Balasagar</td><td>About 4.2 Km NW direction.</td></tr><tr><td>Pond At Mandolai</td><td>About 2.5 Km NE direction.</td></tr></table>	Water bodies	Distance & Direction	Sodara River	About 8.2 Km NW Direction.	Pond At Mandolai	About 3.0 Km SW direction.	Pond At Mandolai	About 800 Meter Km NEdirection.	Tordi Sagar	About 8.2 Km NE direction.	Balasagar	About 4.2 Km NW direction.	Pond At Mandolai	About 2.5 Km NE direction.
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3.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Yes	Available RF/PF area is located within 10 Km radius from M.L. area. <table><tr><td>R.F & P.F.</td><td>Distance & Direction</td></tr><tr><td>Tordi PF</td><td>About 13 Km NE direction.</td></tr><tr><td>Chandsen Tordi RF</td><td>About 15.2 Km NE direction.</td></tr></table>	R.F & P.F.	Distance & Direction	Tordi PF	About 13 Km NE direction.	Chandsen Tordi RF	About 15.2 Km NE direction.								
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4.	Inland, coastal, marine or underground waters	No	-														
5.	State, National boundaries	No.	-														
6.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	Yes	RJ- SH-12 About 6.0 Km in West direction.														
7.	Defense installations	None	--														
8.	Densely populated or built-up area	<table><tr><td>Village</td><td>Distance & Direction</td></tr><tr><td>Mandolai Popullation-1849</td><td>About 3.1 Km in NE direction.</td></tr><tr><td>Tantiya Popullation-1037</td><td>About 3.4 Km in North direction.</td></tr></table>		Village	Distance & Direction	Mandolai Popullation-1849	About 3.1 Km in NE direction.	Tantiya Popullation-1037	About 3.4 Km in North direction.								
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		<div>Sawai Ramsinghpura Popullation-428</div> <div>Mandolai Popullation-2291</div> <div>Mundeti Popullation-824</div> <div>Mehru Popullation-2700</div> <div>Hindola Popullation-1163</div> <div>Sangrampura Popullation-818</div> <div>Dolai Popullation-722</div> <div>Deogaon Popullation-642</div> <div>Puwaliya Popullation-1112</div> <div>Nimera Popullation-1178</div> <div>Malpura Popullation-240909</div> <div>Sitarampura Popullation-1343</div> <div>Pathraj Kalan Popullation-1925</div> <div>Nareda Popullation-831</div> <div>Keronj Popullation-945</div> <div>Uniyara Khurd Popullation-3210</div> <div>Harpura Popullation-866</div> <div>Baghpura Popullation-942</div> <div>Roopawali Popullation-1156</div>	<div>About 2.7 Km in SE direction.</div> <div>About 3.0 Km in SW direction.</div> <div>About 6.2 Km in NE direction.</div> <div>About 8.1 Km in NE direction.</div> <div>About 7.1 Km in NW direction.</div> <div>About 8.6 Km in NW direction.</div> <div>About 5.1 Km in SW direction.</div> <div>About 7.2 Km in NW direction.</div> <div>About 7.9 Km in SE direction.</div> <div>About 8.3 Km in SE direction.</div> <div>About 13.4 Km in NE direction.</div> <div>About 11.7 Km in NW direction.</div> <div>About 10.5 Km in SE direction.</div> <div>About 10.3 Km in SE direction.</div> <div>About 12.3 Km in SW direction.</div> <div>About 8.6 Km in SW direction.</div> <div>About 12.6 Km in SW direction.</div> <div>About 12.4 Km in NW direction.</div> <div>About 14.1 Km in North direction.</div>
9.	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	At Juniya	About 15 Km in SW Direction).
10.	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	Yes	Forest: -Following Protected & Reserved Forests fall within 10 Km radius of Buffer zone, are as follows: <div> <div>R.F & P.F.</div> <div>Distance &</div> </div>

			<table><tr><td></td><td>Direction</td></tr><tr><td>Tordi PF</td><td>About 13 Km NE direction.</td></tr><tr><td>Chandsen Tordi RF</td><td>About 15.2 Km NE direction.</td></tr></table> <p>Water:-No Surface water body is there in the M.L. area. Ground water is the major source of water in this region. Water table is observed at depth of 50m and 45m below the surface during pre-monsoon and post-monsoon period respectively. Proposed ultimate working level (28m) will be above the water table. Hence, water table will not be intersected.</p> <p>Agricultural:-Agriculture is one of the major occupations in this region. As the ML area is a Pvt. land and mining is confined only in the ML area so no impact on the vegetation.</p>		Direction	Tordi PF	About 13 Km NE direction.	Chandsen Tordi RF	About 15.2 Km NE direction.
	Direction								
Tordi PF	About 13 Km NE direction.								
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11.	Areas already subjected to pollution or environmental damage. <i>(those where existing legal environmental standards are exceeded)</i>	None	--						
12.	Areas susceptible to natural hazard which could cause the project to present environmental problems <i>(earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)</i>	None	--						

(IV).Proposed Environment Management Plan & Social Development:

(A) Suggested by the Applicant

1. Details of the infrastructure facilities for mine worker.
2. Phase-wise plan of greenbelt development, plantation and compensatory afforestation.
3. Proposed EMP fund – Rs 0.77 Lacs.
4. Proposed Social development fund – Rs. 1.19 Lacs.

(B) Suggested by the Expert Appraisal Committee: