

FORM-I

**MINING OF QUARTZ, FELDSPAR, AND ASSOCIATED MINOR MINERALS
(QUARTZITE AND STONE), WITH PRODUCTION CAPACITY OF QUARTZ
(10,000 MTPA), FELDSPAR (50000 MTPA), ASSOCIATED MINOR
MINERAL (QUARTZITE & STONE) (29,40,000 MTPA)**

MINING LEASE AREA – 79.32 HECTARE

LEASE PERIOD: 50 YEARS

AT

**VILLAGE - MUSNOTA, TEHSIL-NARNAUL, DISTRICT-
MAHENDRAGARH, HARYANA**

[As per EIA Notification dated 14.09.2006 and as amended in EIA Notification on dated 14.08.2018, the project activity falls under Category 'A' because interstate boundary of Haryana and Rajasthan is situated at a distance of ~ 3 Km in S direction.]

APPLICANT

**Mr. Satish Kumar Garg S/o Sh. Ajudhya
Prasad,
House No. 299/4, Ward No. 12,
Mohalla Purani Mandi, Narnaul,
District Mohindergharh.**



ENVIRONMENT CONSULTANT

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FORM – I

(I) BASIC INFORMATION

S. No.	ITEMS	DETAILS
1	Name of the Project	Mining of "Quartz, Feldspar, and Associated Minor Mineral (Quartzite and Stone) at Village -Musnota, Tehsil – Narnaul, District-Mahendragarh, Haryana of area –79.32 Ha, with production capacity of Quartz (10000 MTPA), Feldspar (50000 MTPA), and associated Minor Mineral (Quartzite & stone) 29,40,000 MTPA by Mr. Satish Kumar Garg S/o Shri Ajudhya Prasad.
2	Serial no. in schedule	Project or Activity 1(a).
3	Proposed capacity	Production capacity of Quartz (10000 MTPA), Feldspar (50000 MTPA) associated Minor Mineral (Quartzite & stone) 29,40,000 MTPA.
4	New/Expansion/Modernization	New Lease
5	Existing capacity/Area (Mining)	Land area 79.32Ha.
6	Category of project	As per EIA Notification dated 14.09.2006 and as amended in EIA Notification on dated 14.08.2018, the project activity falls under Category 'A' because interstate boundary of Haryana and Rajasthan is situated at a distance of ~ 3 Km in S direction.
7	Does it attract the general condition	Yes (Interstate boundary of Haryana and Rajasthan is situated at a distance of ~ 3 Km in S direction.)
8	Does it attract the specific condition?	NA
9	i) Location of unit ii) Plot, Survey No, iii) Khasra No. iv) District v) State	Village-Musnota, Tehsil – Narnaul, District-Mahendragarh, Haryana Khasra No:-599,600,601,626,627,628,648,649 Mahendragarh Haryana
10	a) Nearest Railway station b) Air Port	Dabla Railway station – 7 Km, WNW Jaipur International Airport- 116 Km, S
11	Nearest City Distt. Head Quarter	NangalChaudhary- 8 Km, ENE Dist. Head quarter- Mahendragarh- 47 Km, NNE
12	Village Panchayat, Zila Parishad	Village Mosnota Gram Panchayat Zila Parishad : Mahendragarh
13	Name of Applicant	Mr.Satish Kumar Garg S/o ShriAjudhya Prasad
14	Regd. Address	Mr. Satish Kumar Garg S/o Sh. Ajudhya Prasad, R/o 22-A, Industrial Area Narnaul District Mahendragarh
15	Address for correspondence: Name Designation Address Pin Code E mail Telephone Fax	MrSatish Kumar Garg S/o ShriAjudhya Prasad Partner Mr. Satish Kumar Garg S/o Sh. Ajudhya Prasad, R/o 22-A, Industrial Area Narnaul District Mahendragarh 123001 royalmarble725@gmail.com +91-9416416725, 8053241385
16	Detail of alternative site, if any	Project is mineral specific, hence no alternative site is proposed.
17	Interlinked Project	None

18	Whether separate application for interlinked project has been submitted.	Not Applied.
19	If, Yes Date of Submission	Not Applicable
20	If no, reason	Not Applicable
21	Whether proposal involves approval/clearance under: if yes, details of same and status to given a) Forest (Conservation) 1980 b) Wild life Protection Act 1972 c) CRZ notification 1991	No. The Project area is free from forest No. The Project area is not falling under wild life. No. The Project area is not falling under CRZ notification.
	Whether there is any Govt. order/policy relevant/relating site	The original mining lease was granted by director of Mines and Geology Department Haryana on 29.04.2002 for Barytes, Feldspar and Quartz minor mineral in favor of Satish Kumar Garg over an area of 79.32 ha at village – Musnota, Tehsil – Narnaul, District Mahendragarh, Haryana. Mining lease was granted for a period of 20 years. Further Mines and Geology Department Haryana has added other Minor mineral i.e Associated minor minerals (Quartzite & Stone) vide letter No. Glg/Hy/E-2625/4245 on dated 29/08/2018 (Refer point vi) and inform that the mine lease period is deemed to have been for 50 years from 29/04/2002 to 28/04/2052.
23	Forest land involved	No
24	Whether there is any litigation pending against the project and / or land in which is project is proposed to be setup: a) Name of the Court b) Case No. Order/direction of court if any and its relevance with proposed project	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	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"> ➤ <u>Land- Use-</u> At the end of mining lease mined out area will be converted into water reservoir. ➤ <u>Land Cover-</u> The mining activity will have localized impact and create physical change in the existing environment due to the change in the existing land use. ➤ <u>Topography-</u>The topography of the area is generally slopping and rocky. The highest elevation of the lease area is 354mRL and lowest being 408mRL. After mining activity, the topography of the area will change into pits at the end of mining.

1.2	Clearance of existing land, vegetation and building?	No	Existing Land is Govt. waste Land and there is no vegetation, only small shrubs is found.
1.3	Creation of new land uses?	Yes	At the end of mining excavated area will be converted into water reservoir.
1.4	Pre-construction investigations e.g. bore house, soil testing?	No	Not Applicable
1.5	Construction works?	No	The project is for mining of Quartz, Feldspar, and Associated Minor Mineral (Quartzite and stone). No construction activity is envisaged.
1.6	Demolition works?	No	Not Applicable during mining operation phase. However, the demolition of temporary structures like mine office; stores, workshops, rest-shelters etc. will take place after the expiry of the lease period.
1.7	Temporary sites used for construction works or Housing of construction workers?	No	None
1.8	Above ground building, structures or Earthworks including linear structures, cut and fill or excavations.	Yes	Mineral excavation in the form of pits.
1.9	Underground works including mining or tunneling?	No	No underground work is envisaged.
1.10	Reclamation works?	Yes	After mining activity some area will be reclaimed with the help of top soil and afforested.
1.11	Dredging?	No	This mining project doesn't require any dredging operation.
1.12	Offshore structures?	No	Not applicable; as no offshore structures.
1.13	Production and manufacturing processes?	Yes	The mining will be done by fully mechanized open cast method using Heavy Earth Moving Equipment. Production capacity of Quartz (10000 MTPA), Feldspar (50000 MTPA) Associated Minor Mineral (Quartzite & stone) 29,40,000 MTPA.
1.14	Facilities for storage of goods or materials?	No	No storage facility is required as mined out mineral will be transported to the destination.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	However top soil will be generated which will be stack at site, and will be used for reclamation and plantation. About 20% mineral production will come under the category of rejects as there are thin soft layers of calc schist within the bed rock which are not fit as road metal/crushed material. Only domestic waste will generate which will be generated in septic tank.
1.16	Facilities for long term housing of operational workers?	No	The mine workers will be from nearby villages so no long term housing facility is required.
1.17	New road, rail or sea traffic during construction of operation?	Yes	A haul road of 2 Km will be constructed to transport the mineral from lease area to nearest approach road.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airport etc?	Yes	Construction of haul road for transportation within mine area.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	No closure/diversion of existing transport routes or infrastructure is required.

1.20	New or diverted transmission lines or pipelines?	No	Presently there is no arrangement for supply, at the mine but it is proposed to take an extension of the electricity line from the nearby point.
1.21	Impoundment, damming, culver ting, realignment or other changes to the hydrology of watercourses or aquifers?	No	In view of neither any Impoundment through damming or realignment of the stream/river is envisaged in the mine area, there will not be any changed in surface hydrology. Mining will be done above ground water table. Water table will not intersect during mining.
1.22	Stream crossings?	No	None
1.23	Abstraction or transfers of water from ground or surface waters?	No	No abstraction of natural flow of water in the form of ground or surface water in the lease area and working will be done above water table.
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's vehicles and material will be transported by Tippers/dumpers.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Long-term dismantling or decommissioning or restoration works are not involved.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not applicable.
1.28	Influx of people to an area in either temporarily or permanently?	No	The work will be carried out during day time by deploying local labor near to lease area.
1.29	Introduction of alien species?	No	No such introduction of alien species is foreseen.
1.30	Loss of native species or genetic diversity?	No	No loss of native species or genetic diversity is expected.
1.31	Any other actions?	No	Not applicable

2.Use of Natural Resources for Construction or Operation of theProject (such as land, water, materials 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)	No	No agricultural land is involved.
2.2	Water (expected source and competing users) unit: KLD	Yes	About 144 KLD of water will be required for Dust suppression and 6 KLD for Domestic propose and 23KLD for plantations. Total water required for the proposed mining project is 173 KLD. The water supply for drinking purpose proposed will be made available by hired tractor tanker. The water will be taken from the nearby village Public water supply which is ~1 km away.
2.3	Mineral (MT)	No	As this is Quartz, Feldspar, associated minor mineral (Quartzite and stone) mining project, so no other minerals are used in it.
2.4	Construction material–stone, aggregates, and/soil (expected	No	No construction material is envisaged for this project. Only temporary office, rest shelters will be provided.

	source– MT)		
2.5	Forests and timber (source – MT)	No	Not required.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	The mine will operate in two shift and operational machinery is diesel operated (4420 liters per day) which will be sourced from nearby outlet. Presently there is no arrangement for Power supply, at the mine but it is proposed to take an extension of the electricity line from the nearby point.
2.7	Any other natural resources (use appropriate standard units)	No	No other natural resources will be used.

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 substance or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna and water supplies)	No	NA
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No change in occurrence of diseases, due to mining of Quartz, feldspar and Associated Minor Mineral (Quartzite and stone).
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Project will encourage the economy of the local people by direct and indirect employment opportunity. Besides this, social welfare measures shall be undertaken as CER/EMP activity which will ameliorate the economic status of the people around the project area.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc	No	No hospital, school exists nearby the mine lease area.
3.5	Any other causes	No	None

4. 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	Spoil, overburden or mine wastes	Yes	Top soil will be generated which will be stacked at mine site and will be used for plantation.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Domestic effluent will be treated in septic tanks.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No hazardous wastes are envisaged.
4.4	Other industrial process wastes	No	No industrial process waste is envisaged.
4.5	Surplus product	No	No surplus products are expected.
4.6	Sewage sludge or other sludge from effluent treatment	No	Not applicable
4.7	Construction or demolition wastes	No	No construction or demolition wastes are expected.
4.8	Redundant machinery or equipment	No	None, till closure of mining operation.

4.9	Contaminated soils or other materials	No	No contaminated soil or other materials are envisaged as it is open cast mining.
4.10	Agricultural wastes	No	None.
4.11	Other solid wastes	No	None.

5.Release for 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	There will be some emissions from combustion of fossil fuel will be from vehicle used for transportation of minerals.
5.2	Emissions from production processes	Yes	During excavation of mineral dust particles will be generated.
5.3	Emissions from materials handling including storage or transport	Yes	During transportation of mineral dust will be generated.
5.4	Emissions from construction activities including plants and equipments.	No	No emissions are anticipated.
5.5	Dust or odors from handling of materials including construction materials, sewage and waste.	Yes	Fugitive dust emission is expected during handling of minerals i.e. during loading/unloading of minerals.
5.6	Emissions from incineration of waste	No	None.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris).	No	No emission is expected.
5.8	Emissions from any other sources.	No	None

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	Noise will be generated due to drilling and blasting for mineral extraction. Noise pollution will be due to loading/Unloading and transport operation.
6.2	From industrial or similar processes	No	No industrial process is involved.
6.3	From construction or demolition	No	No construction or demolition is envisaged
6.4	From blasting or piling	Yes	Blasting will generate noise and vibration to the nearby area.
6.5	From construction or operational traffic	Yes	During operational stage running of dumpers/tippers will produce insignificant noise.
6.6	From lighting or cooling systems	No	Not Applicable
6.7	From any other sources	No	None

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	No	No Applicable

	spillage of hazardous materials		
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Domestic sewage will be generated and disposed into septic tank.
7.3	By deposition of pollutants emitted to air into the land or into water	No	The emission is localized and is controlled by efficient control measures.
7.4	From any other sources	No	None
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	There is no risk of long term buildup of pollutants in the environment from the proposed project operations.

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	No such activities are envisaged.
8.2	From any other causes	Yes	Risk of accidents are expected: a) During loading of minerals into truck/tractors-trolley. b) During transportation. c) Accidents can be avoided by taking good safety practices.
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 .

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	Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g. -Supporting infrastructure (roads, power supply, water or wastewater 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 will be developed. Temporary Office, rest shelter, first aid station will be constructed. There will be no provision for housing in mine area.

	- other		
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 into green belt which will have positive impact on environment.
9.3	Set a precedent for later developments	Yes	Proposed plantation will help to increases aesthetic beauty of the area and pits converted into water reservoir which help in recharge of water table.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects.	No	None.

(III) ENVIRONMENTAL SENSITIVITY

S. No.	Information/Checklist confirmation	Name/Identity	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
1.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	None within 10 km radius of mine lease area.
2.	Areas which are important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains and forests.	Yes	<p>Only protected forest present within 10 km of the mine lease area and list for the same is given below:</p> <ol style="list-style-type: none"> 1. PF near Pachnota : 2.7 Km in NW direction 2. Dokan PF : 6.2 Km in WSW direction 3. Patan PF : 7.2 Km in SW direction 4. Kharjo PF : 4.6 Km in SW direction 5. Mina KaNangal PF : 3 Km in S direction 6. Balupura PF : 3.7 Km in SE direction 7. Bhopiya PF : 8.8 Km in SSE direction 8. Baneti PF : 7.1 Km in SE direction 9. PF near Rajpura : 8.8 Km in SSW direction <p>Only a river found (Krishnawati River/ Kasonti River: 5.6 in SE direction).</p> <p>Pond near village Mosnota at 350m in N direction</p> <p>Pond Near village Golwa at 550m in S</p> <p>Pond Near village Gangutane 850m in E direction</p> <p>Pond Near village Bayal at 500m in W direction</p>
3.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	None within 10 km radius of mine lease area.
4.	Inland, coastal, marine or underground waters	No	-
5.	State, National boundaries	Yes	Haryana –Rajasthan Boundary~3 km, in South direction.
6.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	NO	Not required.
7.	Defense installations.	No	None within 10 km radius of mine lease area.
8.	Densely populated or built-up	Yes	Nangal Chaudhary -8 Km, NE

	area.		
9.	Areas occupied by sensitive manmade land uses (hospitals, schools, places of worship, community facilities).	Yes	<u>Hospital</u> Govt. PHC, Bayal - 5 Km, WSW <u>School</u> Govt. Sr. Sec. School, Musnota 700m, N <u>Community Facilities</u> Nangal Chaudhary police Station - 8 Km, ENE
10.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals).	No	None within 10km radius of mine lease area.
11.	Areas already subjected to pollution or environmental damage. (Those where existing legal environmental standards are exceeded).	No	None
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	The study area lies in Seismic Zone II . However, natural hazards due to earthquakes are not anticipated to be a major environmental issue. Also no major structures are part of the proposed development. Hence environmental impacts due to the proposed development are ruled out.

Ph. (O) 251421
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SATISH KUMAR MINES LEASE OWNER

Village:- MUSNOTA

Office : A-22, Industrial Area Narnaul- 123001

Undertaking

"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 part 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".

Date:

Place:

Signature of the Applicant

Satish Kumar

(Authorized Signatory)