

**PROPOSAL FOR
ENVIRONMENTAL CLEARANCE FOR
QUARTZ & FELDSPAR MINING PROJECT**

FORM – I

For

**Quartz & Feldspar Mining Project
Village: Sankireddypally, Mandal:Kothakota,
Distt.: Wanaparthi,
PIN Code: 509 381 (TELANGANA)**

Applied Area-11.574 Ha.

Applicant

Smt.C Sujatha

**Plot No.: 57-A, Journalist Colony,
Jubilee Hills,
HYDERABAD-500 033**



AMALTAS
CONSULTANTS

Consultants

Amaltas Enviro Industrial Consultant LLP.

(NABET Accredited EIA Consultants Organization)

**1104-Vikrant Tower, Rajendra Place,
NEW DELHI-110 008**

January 2017

APPENDIX VIII

(See paragraph 6)

FORM 1

APPLICATION FOR MINING OF MINOR MINERALS UNDER CATEGORY 'B2' FOR MORE THAN FIVE HECTARE AND LESS THAN 25 HA.

(I) Basic Information																																													
Sl.No.	Item																																												
1.	Name of the project/s Quartz and Feldspar Mining Project for Smt. C Sujatha																																												
2.	S.No. in the schedule Schedule 1 (a)																																												
3.	Proposed capacity /area /length /tonnage to be handled/ command area/lease area/ number of wells to be drilled. Lease Area-11.574 Ha. Quartz-50000 Tons/Annum Feldspar-40000 Tons/Annum																																												
4.	New/Expansion/Modernization New																																												
5.	Existing Capacity/Area etc.																																												
6.	Category of Project <i>i.e.</i> 'A' or 'B' B (B-2)																																												
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.	<p><u>Location</u></p> <p style="text-align: center;">Geo-coordinates</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitudes</th> <th>Longitudes</th> </tr> </thead> <tbody> <tr><td>16°22'5.61"N</td><td>77°59'11.84"E</td></tr> <tr><td>16°22'1.76"N</td><td>77°59'18.96"E</td></tr> <tr><td>16°22'1.97"N</td><td>77°59'17.04"E</td></tr> <tr><td>16°21'55.97"N</td><td>77°59'16.62"E</td></tr> <tr><td>16°21'54.21"N</td><td>77°59'28.57"E</td></tr> <tr><td>16°21'53.44"N</td><td>77°59'28.66"E</td></tr> <tr><td>16°21'50.53"N</td><td>77°59'31.06"E</td></tr> <tr><td>16°21'48.08"N</td><td>77°59'30.42"E</td></tr> <tr><td>16°21'47.36"N</td><td>77°59'31.06"E</td></tr> <tr><td>16°21'46.48"N</td><td>77°59'30.08"E</td></tr> <tr><td>16°21'45.97"N</td><td>77°59'29.17"E</td></tr> <tr><td>16°21'47.97"N</td><td>77°59'20.92"E</td></tr> <tr><td>16°21'48.65"N</td><td>77°59'18.39"E</td></tr> <tr><td>16°21'49.85"N</td><td>77°59'17.99"E</td></tr> <tr><td>16°21'50.98"N</td><td>77°59'18.42"E</td></tr> <tr><td>16°21'54.37"N</td><td>77°59'17.11"E</td></tr> <tr><td>16°21'56.81"N</td><td>77°59'15.78"E</td></tr> <tr><td>16°21'58.27"N</td><td>77°59'14.46"E</td></tr> <tr><td>16°21'59.27"N</td><td>77°59'13.95"E</td></tr> <tr><td>16°22'1.07"N</td><td>77°59'11.64"E</td></tr> <tr><td>16°22'3.43"N</td><td>77°59'11.15"E</td></tr> </tbody> </table> <p style="text-align: right;">Survey Nos.. 196,197</p>	Latitudes	Longitudes	16°22'5.61"N	77°59'11.84"E	16°22'1.76"N	77°59'18.96"E	16°22'1.97"N	77°59'17.04"E	16°21'55.97"N	77°59'16.62"E	16°21'54.21"N	77°59'28.57"E	16°21'53.44"N	77°59'28.66"E	16°21'50.53"N	77°59'31.06"E	16°21'48.08"N	77°59'30.42"E	16°21'47.36"N	77°59'31.06"E	16°21'46.48"N	77°59'30.08"E	16°21'45.97"N	77°59'29.17"E	16°21'47.97"N	77°59'20.92"E	16°21'48.65"N	77°59'18.39"E	16°21'49.85"N	77°59'17.99"E	16°21'50.98"N	77°59'18.42"E	16°21'54.37"N	77°59'17.11"E	16°21'56.81"N	77°59'15.78"E	16°21'58.27"N	77°59'14.46"E	16°21'59.27"N	77°59'13.95"E	16°22'1.07"N	77°59'11.64"E	16°22'3.43"N	77°59'11.15"E
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Quartz & Feldspar Mining Project of Smt. C Sujatha, Village: Sankireddypally, Mandal.:Kothakota, District: Wanaparthy (TELANGANA)

		Village: Sankireddypally, Mandal-Kothakota, District-Wanaparthy	
		State	TELANGANA
10.	Nearest railway station/airport along with distance in km.	Wanaparty Road Rly Stn-10.95 km Hyderabad-130.02 km	
11.	Nearest Town, City, District Headquarters along with distance in km.	Mandal-Kothakota: 5.00 km Wanaparthy District Headquarter-7.50 km	
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Village: Sankireddypally, Mandal-Kothakota, District-Wanaparthy	
13.	Name of the applicant	Smt. C Sujatha	
14.	Registered Address	Plot No. 57-A, Journalist Colony, Jubilee Hills, Hyderabad	
15.	Address for correspondence:	Plot No. 57-A, Journalist Colony, Jubilee Hills, Hyderabad	
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	Not Applicable	
17.	Interlinked Projects	Not Applicable	
18.	Whether separate application of interlinked project has been submitted?	Not Applicable	
19.	If yes, date of submission	Not Applicable	
20.	If no, reason	Not Applicable	
21.	Whether the proposal involves approval/clearance under: if yes, details of the same and their status to be given.		
	i. The Forest (Conservation) Act, 1980?	NO	
	ii. The Wildlife (Protection) Act, 1972?	NO	
	iii. The C.R.Z. Notification, 1991?	NO	
22.	Whether there is any Government Order/Policy relevant /relating to the site?	NO	
23.	Forest land involved (hectares)	NO	
24.	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up?	Not Applicable	
	a) Name of the Court b) Case No. c) Orders/directions of the Court, if any and its relevance with the proposed project.		

(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	Land of the lease hold area shall be used for quartz & feldspar mining. After the mining, the mined out area shall be reclaimed and brought out in the present condition.
1.2	Clearance of existing land, vegetation and buildings?	No	The lease hold area is devoid of any tree/vegetation/structure.
1.3	Creation of new land uses?	No	No new land use shall be created. Upon completion of the mining, the mined our area shall be brought back to the original land use
1.4	Pre-construction investigations e.g. bore houses, soil testing?	-	Not Applicable
1.5	Construction works?	-	Not Applicable
1.6	Demolition works?	-	Not Applicable
1.7	Temporary sites used for construction works or housing of construction workers?	No	Workers from the nearby villages shall be hired. Hence, housing facility is not required. However, rest shelter shall be provided at the site.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	-	Not Applicable
1.9	Underground works including mining or tunneling?	-	Not Applicable
1.10	Reclamation works?	Yes	The mined out area shall be reclaimed.
1.11	Dredging?	-	Not Applicable
1.12	Offshore structures?	-	Not Applicable
1.13	Production and manufacturing processes?	Yes	It will be open cast mining. The mining shall be undertaken by semi-mechanized technology with controlled drilling & blasting.
1.14	Facilities for storage of goods or materials?	Yes	The mined out minerals shall be stacked properly on the non-mineral area.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	No	The Overburden shall be stacked and preserved for reclamation and plantation.

1.16	Facilities for long term housing of operational workers?	-	Not Applicable
1.17	New road, rail or sea traffic during construction or operation?	-	Not Applicable
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	-	Not Applicable
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	-	Not Applicable
1.20	New or diverted transmission lines or pipelines?	-	Not Applicable
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	-	Not Applicable
1.22	Stream crossings?	No	There is no river/nallahs in the lease area.
1.23	Abstraction or transfers of water from ground or surface waters?	-	Not Applicable. However, domestic water requirement shall be met from tube well.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	There will be no change in the drainage pattern and run-off of the area. The mining activity shall not affect the natural water course, as the lease is devoid of any natural nallah/river.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Transport is not required for the workers. However, the minerals shall be transported by the trucks/tractor trolley.
1.26	Long-term dismantling or decommissioning or restoration works?	-	Not Applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	-	Not Applicable
1.28	Influx of people to an area in either temporarily or permanently?	No	The workers shall be hired from the nearby villages, located at walking distance from the site.
1.29	Introduction of alien species?	-	Not Applicable
1.30	Loss of native species or genetic diversity?	-	Not Applicable
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):			
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	The proposed ML area is partly illegally mined out area which shall be used for dumping site for the overburden and waste generated during the mining.
2.2	Water (expected source & competing users) unit: KLD	Yes	Mining process is completely dry. Hence, the water requirement will be for the domestic use only to the tune of 0.66 KLD, which will be met from the tubewell.
2.3	Minerals (MT)	No	Not Applicable
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	-	Not Applicable
2.5	Forests and timber (source – MT)	-	Not Applicable
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	-	Not Applicable
2.7	Any other natural resources (use appropriate standard units)	-	Not Applicable

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)	Yes	The hazardous substances like spent / burnt oil and oil soaked filters, old batteries etc are taken care of as per Hazardous Waste (Management & Handling) Rules, 1989 and 2008 and Batteries (Management & Handling) Rules and sent to stores for disposal through authorized agents.

3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	-	Not Applicable
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	The project will not have adverse impact on the living conditions of the people. However, positive impact will be there in the form of employment, better living condition, improvement of infrastructure etc.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	-	Not Applicable
3.5	Any other causes	Yes	The people may face problem from transportation of the quartz & feldspar. The proper care shall be taken during the transportation of minerals to avoid negative impact.

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	About 3,37,300 m ³ mine waste shall be generated as mines waste which will be preserved and used for backfilling of the mined out area.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Small quantity of sanitary waste shall be generated which will be disposed into the soakpit.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	The hazardous substances like spent / burnt oil and oil soaked filters, old batteries etc are taken care of as per Hazardous Waste (Management & Handling) Rules, 1989 and 2008 and Batteries (Management & Handling) Rules and sent to stores for disposal through authorized agents.
4.4	Other industrial process wastes	No	Not Applicable
4.5	Surplus product	No	Not Applicable
4.6	Sewage sludge or other sludge from effluent treatment	No	Not Applicable
4.7	Construction or demolition wastes	No	Not Applicable

4.8	Redundant machinery or equipment	No	Not Applicable
4.9	Contaminated soils or other materials	No	Not Applicable
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	Not Applicable

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	There will be emission from the running of the transport vehicle like truck/tractor trolley, but the quantity of emission will be negligible only one truck/tractor trolley shall be loaded per hour.
5.2	Emissions from production processes	Yes	Small quantity of dust shall be generated during the excavation.
5.3	Emissions from materials handling including storage or transport	Yes	Dust shall be generated during the transportation of minerals. The transportation of minerals shall be carried out in a covered truck.
5.4	Emissions from construction activities including plant and equipment	No	Not Applicable
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	Not Applicable
5.6	Emissions from incineration of waste	No	Not Applicable
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not Applicable
5.8	Emissions from any other sources	No	Not Applicable

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	The noise shall be generated due to running of HEMM and other machinery. The machinery and

			vehicles shall be maintained properly to keep the noise levels within the permissible limit. The vibration will be felt during the blasting. The blast induced vibration will be kept within permissible limits.
6.2	From industrial or similar processes	No	
6.3	From construction or demolition	No	No construction activity shall be undertaken.
6.4	From blasting or piling	Yes	The drilling and blasting do generate noise and vibration but precautions are taken by advanced techniques of blasting to maintain the level within prescribed standards. Blasting – Instantaneous & restricted to once or twice in a day. Maintained within the permissible limits specified by DGMS.
6.5	From construction or operational traffic	Yes	Noise generation due to movement of dumpers for transportation of ROM & waste, which will be kept within permissible limit.
6.6	From lighting or cooling systems	-	Not Applicable
6.7	From any other sources	-	Not Applicable

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	Yes	ANFO Mixture is proposed to be used for blasting purpose. Explosive will be supplied by authorized dealers/ suppliers in the licensed explosive van as when required. Due care will be taken to avoid risk during handling, storage, use or spillage of explosives.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Sewage shall be discharged into the soakpit.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Particulate emission will be there due to mining and transportation.

			However, it will be controlled by sprinkling of water on the unpaved way.
7.4	From any other sources	No	
7.5	Is there a risk of long term build up 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	During the blasting dust is generated which may affect the human health and environment. However, Controlled blasting with optimum charge of holes will be carried out to loosen the rock. Explosion hazards are envisaged due to mishandling of explosives. Explosives will be handled with utmost care in compliance of conditions imposed by Chief Controller of Explosive & MMR, 1961. Only competent and authorized persons will be allowed to handle the explosives as per MMR, 1961.
8.2	From any other causes	Yes	Blasting: There are risks of ground vibration and fly rocks, which are taken care by optimum designing and getting approval from DGMS and implementing the same. The risks of accident are anticipated from operation of equipments, failure of mine pit etc. Pit slope will be kept at 45°. No loose stone or debris will be allowed to remain near the edges of excavation and along the sides of haul road. However, good safety practices will be applied at the mine site. All precautionary measures will be adopted and use of

			protective equipments will be mandatory. However, to deal 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)?	Yes	The lease area lies in Seismic Zone-II (low Damage Risk Zone). Hence, there is little risk of earthquake. Project is not falling under seismically active zone or land slide prone area. The natural disasters are not likely to affect the project due to flooding and landslides. All safety measures like slope stability and adequate pumping has been provided. Besides safety measures, the mine shall be well equipped to deal with eventuality as enumerated in MMR 1961 and related DGMS circular.

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 <i>e.g.:</i> <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, <i>etc.</i>) • housing development • extractive industries • supply industries • other 	Yes	Project will lead to the further of additional amenities, facilities and other infrastructure, ancillary industries & business which will provide opportunities of indirect employment to local Community for longer duration.
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	The physically reclaimed land would undergo transformation over time which would have positive impact on environment.
9.3	Set a precedent for later developments	Yes	Project will set a precedence of economic development leading to over socio-economic growth of the area

9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Not Applicable
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(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	None	
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	None	
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	None	
4	Inland, coastal, marine or underground waters	Unidentified Canal	1.03 km
5	State, National boundaries	No	
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	District Road	0.90 km
7	Defence installations	None	
8	Densely populated or built-up area	Rajapet Village	0.72 km
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Kothakota Hospital & Town	5.05 km
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Water body/pond created in the mined out area	Within the lease boundary
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental	None	

	standards are exceeded)		
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)	The site lies in the Seismic Zone-II of the Zonation Map of India.	

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: 09/01/2017

Place: Hyderabad

C Sujatha
Proprietor
Plot No.: 57-A, Journalist Colony,
Jubilee Hills, Hyderabad