

APPENDIX - I

(See Paragraph-6) FORM 1

(I) Basic Information

Sl. No	Item	Details
1.	Name of the Project/s	Bichhakhandi Black stone Quarry No.-22 (Cluster Serial No. - 4B/6)
2.	S. No in the schedule	
3.	Proposed capacity / area /length/tonnage to be handled /command area /lease area/number of wells to be drilled	The total proposed rate of production of usable Black Stone as per MGQ for Bichhakhandi Black Stone Quarry No – 22 during the project / plan period of 5 years comes to about 151734 m ³ or about 1.51 lakh m ³ . Project area is over 6.50 Acre or 2.630 Ha.
4.	New /Expansion /Modernization	New
5.	Existing Capacity / Area etc.	None
6.	Category of project i.e. 'A' or 'B'	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	Latitudes: 20°50'51.81"N to 9 20°50'58.02"N Longitudes: 85°59'11.74"E to 85°59'11.74"E
10.	Nearest railway station/airport along with distance in km	Nearest railway station is Jenapur Railway Station at a distance of 8.02 km and Bhubaneswar airport is at a distance of 69 kms.
11.	Nearest Town, city, District Headquarters along with distance in km	Nearest towns are Dharmasala (30 km appx.), Duburi (21Km appx.) and Chandikhol (30 km appx.). District Hqrs is at Jajpur (52 km appx).
12.	Village, Panchayat, Zillah Parisad, Municipal Corporation, Local body (complete postal address with telephone numbers	Bichhakhandi village is located in Endalba gram Panchayat which is at a distance of 2.86 km from lease site.
13.	Name of applicant	Tahasildar, Dharmasala (on behalf successful of Bidder)
14.	Registered address	Office of the Tahasildar, PO-Dharmasala, District Jajpur (Odisha)
15.	Address for correspondence	Office of the Tahasildar, Dharmasala, Jajpur district (Odisha)
16.	Name	Tahasildar, Dharmasala (on behalf successful of Bidder)
17.	Designation (Owner/ Partner/ CEO)	Presently, the area is with State Govt. Tahasildar,

		Dharmasala is the competent authority to deal with the project with various govt. offices and statutory bodies.
18.	Address	Office of the Tahasildar, Dharmasala, Jajpur (Odisha)
19.	Pin Code	755008
20.	E-mail	tdrdharmasala@gmail.com
21.	Telephone No	06725-283036
22.	Fax No	
23.	Details of Alternate Sites examined, if any, Location of these sites shown on a Toposheet.	This is a site specific project. So there is no alternative sites. The Lease area is located in the Topo Sheet No.- F45U1.
24.	Interlinked Project	No interlinked project.
25.	Whether separate application of interlinked project has been submitted?	Not necessary
26.	If yes, date of submission	Not applicable
27.	If no, reason	Not applicable
28.	Whether the proposal involves approval/clearance under : if yes details of the same and their status (a) The Forest Conservation Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C. R. Z. Notification, 1999?	The project area neither comes under any type of forest nor in coastal zone. So, no clearance is required under Forest Conservation Act, 1980, Wildlife (Protection) Act, 1972 and C. R. Z. Notification, 1999.
29.	Whether there is any Government Order/Policy relevant/relating to the site	Yes, The mining plan is approved by The Deputy Director Geology (Authorized Officer); O/o-Directorate of Geology, Bhubaneswar, Odisha, vide memo No.293/DG, Dt.: 13/01/2022.
30.	Forest land involved	No forest land is involved
31.	Whether there is any litigation pending against the project and/or land in which the project is proposed 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. There is no litigation against the project and/or land in which the project is proposed.

Expected Project Cost: 26 Lakhs.

(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.)

Sl. 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	Permanent change in land use, land cover and topography will be there. It is an opencast mining and digging will start from top of the project and go down word creating void. Usable black stones recovered by digging shall be sold. Balance non-usable overburden and interburden wastes shall be utilized in many ways leaving some quantity, which will be back filled in the voids created by digging at the cessation of mining activities in the area. Topography of the area shall undergo change.
1.2	Clearance of existing land. Vegetation and buildings?	No	No clearance of existing land will be required as the area is devoid of vegetation. Also no buildings is there in the project area which shall have to be cleared.
1.3	Creation of new land uses?	No	Proposed project area shall be leased out by Tahasildar, Dharmasala (competent authority) by auction process after EC is obtained. Mining plan is already been approved.
1.4	Pre-construction investigations bore holes, soil testing?	No	No need of bore holes and soil testing.
1.5	Construction works?	No	No need of any construction works.
1.6	Demolition works?	No	No need of any demolition works.
1.7	Temporary sites used for construction works or housing of construction workers?	No	No construction of houses is required for any purpose.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	No	No need since there is no above ground buildings, structures
1.9	Underground works including mining or tunneling?	No	No need of underground works including mining or tunneling.
1.10	Reclamation works?	No	No need of reclamation work
1.11	Dredging?	No	No need
1.12	Offshore structures?	No	No need of offshore structures.
1.13	Production and manufacturing processes?	Yes	Opencast Semi-mechanized method of mining is proposed to extract mineral i.e., road metal Black Stone.
1.14	Facilities for storage of goods and materials?	Yes	There will be storage of materials recovered from mines at designated place inside the project area

			where mine development proposal is not there in the lease/plan period of 5 years. Area allocated is of 1.28Ha.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	The overburden with soil of no nutrient value, small pieces of rocks which are overlying the actual Mineable rock etc. will be 0.14 lakh m ³ produced in 5 year lease/plan period. A part of the volume will be used in many ways by the lessee, local villagers and CSR activities. Negligible balance of waste shall be there in dumping yard. At the closure of the mine, these and future produces shall be back-filled in the ultimate void created by quarrying.
1.16	Facilities for long term housing of operational workers?	No	No long-term housing required as people from nearby villages will be employed who will be attending duty from their house.
1.17	New road, rail or sea traffic during construction or operation?	No	There is no need of construction of new road since presently available area is good enough to use. Rail or sea traffic during construction or operation at any stage shall not be required.
1.18	New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports are not proposed as there is no need.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	There will be no closure or diversion of existing transport routes or infrastructure leading to changes in traffic movement
1.20	New or diverted transmission lines or pipelines?	No	There is no transmission lines or pipelines within the project area which may need diversion.
1.21	Impoundment, damming. Culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	The UPL at the end of 5 th year mining will be at 23 mRL which is much above the general ground level which is at 20 mRL, Water table is 5 m below the ground level. So water percolation will not be there to ground water level.
1.22	Stream crossings?	No	There is no stream crossing the project area.
1.23	Abstraction or transfers of water from ground or surface water?	No	Water requirement in the mining activity will be fulfilled by hiring a local tanker.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	There will be no change in the land surface that would affect drainage or run-off.
1.26	Transport of personnel or materials for construction,	No	Transport of personnel shall not be required as local villagers shall be employed for mining

	operation or decommissioning?		operation and alleged jobs and will come by their own conveyance. Transport of materials for construction, operation or decommissioning shall be done by trucks/tippers from source to mine site.
1.26	Long-term dismantling or decommissioning or restoration works?	No	No long-term dismantling or decommissioning works to be carried out. Restoration will be visualized after completion of mining in the project till quarry floor reaches UPL. Voids created due to mining shall be rehabilitated by way water retaining.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	During decommissioning there will be no mined out products on the surface areas of the project. Wastes shall be back-filled in the quarried voids and usable Black Stones would have been dispatched. So, any impact on the environment is ruled out.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Temporary employment of 12 number people from local villages will be there.
1.29	Introduction of alien species?	No	No alien species will be introduced to the environment.
1.30	Loss of native species or genetic diversity?	No	Ecologically no specific habitat is existing in the project area. There is no requirement of cutting vegetation and no loss to biomass.
1.31	Any other actions?	No	There will be no other action except mining and ancillary activities.

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)

Sl. No	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data.
2.1	Land specially undeveloped or agricultural land (ha)	No	The project area is undeveloped barren land. No agricultural land is there. It is stony over 4.0 Ac/1.28 Ha.
2.2	Water (expected source & competing users) unit: KLD	Yes	About 3.5 KLD water shall be required.
2.3	Minerals (M3)	Yes	The total proposed rate of production of usable Black Stone as per MGQ for project is 30347 m ³ (max.) (0.30 lakh m ³) per annum. As such total production during the lease / plan period of 5 years comes to about 151734 m ³ or about 1.51 lakh m ³ . Since mining plan is approved,

			application for EC is being filed.
2.4	Construction material- Black Stone, aggregates, and /soil (expected source –MT)	Yes	Black Stone as road metal and civil construction material shall be extracted by mining in the project area over 6.50 Ac/2.630 Ha. About 1.51 lakh m ³ usable Black Stone has been proposed to be mined in the lease/plan period of 5 years @ about 0.55 lakh m ³ per annum(max.).
2.6	Forests and timber (source – MT)	No	There is no forest in the project area.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Diesel will be used in deployed machinery and transporting tippers and hyvas. No Power required for the Project activities as mining will be done in day time only including blasting.
2.7	Any other natural resources (use appropriate standard units)	No	There is no other natural resources within the project excepting hard, massive and compact Black Stone.

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.

Sl. 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	There is no usage of Hazardous substances or materials (as per MSIHC Rules) which may affect to human health or the environment.
3.2	Chances in occurrence of disease of affect disease vectors (e.g. insect or water borne diseases)	No	There shall be no effect in occurrence of disease of affect disease vectors (e.g. water borne diseases).
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	The proposed project shall enhance the prospects of employment which will enhance the living condition of local inhabitants/dwellers.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	No	The proposed mining area is well distanced from village, hospital so there will be no person who is vulnerable affected by this project.
3.6	Any other causes.	No	No causes that would impact adversely.

4. Production of solid wastes during construction or operation or De-commissioning (MT/month)

Sl. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data.
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4.1	Spoil, overburden or mine wastes	No	There will be overburden with soil of no nutrient value, small pieces of rocks which are overlying the actual minable rock etc. Directly those materials can't be used for road making or in civil constructions. 0.14 lakh m3 OB and 0.37 lakh m3 IB as waste shall be produced in 5 year lease/plan period totalling to 0.55 lakh m3. A part of the volume will be used in many ways by the lessee, local villagers and CSR activities. Negligible balance of waste shall be there in dumping yard. At the closure of the mine, these and future produces shall be back-filled in the ultimate void created by quarrying.
4.2	Municipal waste (domestic and or commercial wastes)	No	There will be no municipal waste (domestic and or commercial wastes) to be generated from project area.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	There is no hazardous wastes generated from project area.
4.4	Other industrial process wastes	No	There is no other industrial wastes that may arise in mining period.
4.5	Surplus product	No	Surplus product shall be stacked in Individual Lease hold area within a short time and shall be transported.
4.6	Sewage sludge or other sludge from effluent treatment.	No	There is no sewage of sludge or other sludge from effluent treatment in septic tank.
4.7	Construction or demolition wastes	No	There will be no construction or demolition which shall generate waste.
4.8	Redundant machinery or equipment	No	Redundant machinery or equipment are not proposed to be used.
4.9	Contaminated soils or other materials	No	There will be no contaminated soils or other materials.
4.10	Agricultural wastes	No	There will be no agricultural wastes production.
4.11	Other solid wastes	No	There will be no other type of solid wastes production.

5. Release or pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

Sl. 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	Diesel will be used in machinery to be used in the mines for production and dispatch of rocks. There will be no Emissions from combustion of fossil fuels from stationary or mobile sources as usage of the

			same are very less and precautionary measures shall be taken regularly.
5.2	Emission from production processes	Yes	There will be emission from production processes from mining. However dust may emerge from drilling, blasting, production & transport; those will be suppressed by water sprinkling. Plantation around the project periphery shall also help arresting dust to be generated.
5.3	Emissions from materials handling including storage or transport	Yes	Dust may arise during transport of Black Stone and wastes, which will be suppressed by spraying water at intervals. Plantation around the project periphery shall also help arresting dust to be generated.
5.4	Emissions from construction activities including plant and equipment	No	There will be no construction activity of plant and equipment.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	There will be no sewage or construction which will have dust or odours.
5.6	Emissions from incineration of waste	No	There will be no emission from incineration of waste.
5.7	Emission from burning of waste in open air (e.g./materials, construction debris)	No	There will be no burning of waste at any stage of mining activity.
5.8	Emission from any other sources	No	There will be no emission from any other sources.

6. Generation of Noise and Vibration, and Emissions of Light and heat

Sl. 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	There will be generation of noise and vibration from operation of equipment as the method of mining is opencast semi-mechanized. Noise level will be within prescribed limit as machinery proposed to be used are of small size and HP. All the machinery shall be calibrated regularly. In case noise level will be higher to limit prescribed, necessary precautionary measures shall be taken to keep the noise level within limit or less than limit.
6.2	From industrial or similar processes	No	Not applicable as the project area will be used for mining purpose only.
6.3	From construction or demolition	No	There will be no construction or demolition.
6.4	From blasting or piling	Yes	There will be low charge delay blasting within the lease hold area which will not affect nearby.

6.6	From construction or operational traffic	No	There will be no construction or operational traffic.
6.6	From lighting or cooling systems	No	There will be no lighting or cooling systems.
6.7	From any other sources	No	There will be no generation of noise and vibration from any other sources.

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

Sl. 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	There will be no use of hazardous materials in the project area.
7.2	From discharge sewage or other effluents to water or the land (expected mode and place of discharge)	No	There will be no discharge of sewage or other effluents to water or the land.
7.3	By deposition of pollutants emitted to air in to the land or in to water	No	There will be no deposition of pollutants emitted to air in to the land or in to water.
7.4	From any other sources	No	There will be no release of pollutant from any other source related to mining in the project area.
7.5	Is there a risk of long-term buildup of pollutants in the environment from these sources?	No	There will be no pollutant produced so there is no risk of long term buildup of pollutants in the environment.

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

Sl. 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	There will be no use or production of hazardous substances.
8.2	From any other causes	No	There will be no other cause which could affect human health or the environment.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides,	No	No. The project will not be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc.) because of the geography of the area.

cloudburst etc.)?		
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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.

Sl. 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, Lateral ancillary development or developments 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 Other 	Yes	There will very little be impact on the environment due to mining in this project in very small scale due to scale of mining and deployment of low power machinery. These machinery, shall be calibrated and checked regularly on day to day basis.
9.2	Lead to after-use of the site, which could have an impact on the environment	No	There will be no impact on the environment lead by after-use of the site as this is a hillock. Its elevation only reduce.
9.3	Set a precedent for latter developments	No	Scope of latter developmental activities after the plan period is there which will produce required road metals for construction of roads and buildings without damaging the environment.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Since the cluster zone is of the same status as of the project there will be no affect at all due to proximity to other existing or planned projects as far as environmental damage is concerned.

(III) Environmental Sensitivity

Sl 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	There is no protected area under international conventions national or local legislation for their ecological, landscape, cultural or other related value present within a radius of about 15 km from the project.

2.	Areas which are important or sensitive for ecological reasons- Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	The nearest forest is Kapilasa reserve forest, situated at an aerial distance of 24.01 km and the Brahmani River is the nearest water body flowing at a distance of 5.31 km from the proposed lease site.
3.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	There is no areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration present within about 15 km from proposed project area.
4.	Inland, costal, marine or underground waters	No	There is no Inland, coastal, marine or underground waters present within about 15 km from proposed project area.
5.	State, national boundaries	Jharkhand	Nearest state boundary Jharkhand is located at an distance of about 125.51 km from the project.
6.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Yes	Langudi Hill Buddhist Archaeological Site is Aerial Distance of dam site is 25.10 and Kapilasa temple is situated at an aerial distance of 24.01 km from the project area.
7.	Defense installations	Charbatia	The defense installations is located at a diance of 31.46 km from the mining project area.
8.	Densely populated or built-up area	Endalba panchyat	The nearest densely populated area near to the mining project is endalba panchyat, Dharmasala situated at a distance of 2.7 km.
9.	Areas occupied by sensitive man-made land uses (Hospitals, schools, places worship, community facilities)	Yes	The mining lease is at a distance from areas occupied by sensitive man made land uses are Ayurvedic chikitsalay ,kaland, jajpur, odisha - 3.63 km, Educational institutions is Mukundapatra Degree Mahavidyalaya- 2.68 km, Places of worship is Mahadev Temple- 1.88 km.
10.	Areas containing important, high quality or scares resources of Groundwater, forestry, agriculture, fisheries, tourism, minerals	Yes	Areas containing important, high quality or scares resources of Groundwater, forestry, agriculture, fisheries, tourism, and minerals are there in Sukinda valley which is about 45 km far by road from the project.
11.	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	There is no known area within about 100 km of project which is already subjected to pollution or environmental damage.

	legal environmental standards are exceeded)		
12.	Areas susceptible to natural hazard which could cause project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	No	There is no areas susceptible to natural hazard like Earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions which could cause project to present environmental problems

(IV) Proposed Terms of Reference for EIA studies

I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and believe 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 shall be revoked and clearance given, if any to the project will be revoked at our risk and cost.

Date _____

Place _____

Signature of the applicant
With Name and Full Address
(Project Proponent/Authorized Signatory)

Tahasildar, Dharmasala,
At- O/o The Tahasildar, Dharmasala, Dist.-Jajpur.