

FORM – I, PRE FEASIBILITY REPORT
&
ENVIRONMENT MANAGEMENT PLAN
FOR

KUTIYANA BLACK TRAP MINE

(Near Village – Kutiyana, Taluka- Kutiyana & District - Porbandar)

PROPOSED PRODUCTION: - 25000 TPA
PROJECT COST: - 25 LACS

Details of Area

Total Area – 1.00.00 ha
Nr Vill – Kutiyana,
ta. Kutiyana, Porbandar

Applicant

Lessee Sh. Vinjabhai Modedra
S/o. Dudabhai Modedra
At. Kutiyana Taluka-Kutiyana,
Porbandar

COMMISSIONER OF GEOLOGY & MINING
PORBANDAR

FORM -I

FORM 1

Basic Information:

S. No.	Item	Details
1.	Name of the Project/s	Kutiyana Black Trap Mine.
2.	S. No. in the schedule	1(a)
3.	Proposed capacity/area/length/tonnage to be handled/command area / lease area/number of well to be drilled	Lease area – 1.00.00 hect. Proposed Production Capacity. Black Trap – 25000 tonnes / annum.
4	New/ Expansion /Modernization	Working Mine.
5.	Existing capacity/ Area etc. Proposed capacity	Proposed- Black Trap 25000 TPA
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	
	Plot/Survey/Khasra No.	Survey No.558p153p2
	Village	Kutiyana
	Taluka	Kutiyana
	District	Porbandar
	State	Gujarat.
10.	Nearest Railway Station /Airport along with distance in Km.	Nearest Railway Station- is Kutiyana at- 17 km towards N direction from Project site. Nearest Airport- is Porbandar at 44 km. towards SE direction from Project site.
11	Nearest Town City, Dist. H.Q.	Kutiyana 0.550 km towards SW Nearest city is Kutiyana at about 12 Km from Project site & Dist H.Q. is Porbandar at about 30 km. towards NW.

12	Village Panchayat /Zila Parishad/ Municipal Corporation/Local body.	Village Panchayat- Kutiyana . Zilaparishad- Porbandar.
13.	Name of the Applicant/Lessee	Sh. Vinjabhai Modedra S/o Dudabhai Modedra
14.	Registered Address	Near Village – Kutiyana, Taluka.- Kutiyana District - Porbandar (Guj.)
15.	Address for Correspondence	Near Village – Kutiyana, Taluka.- Kutiyana District - Porbandar (Guj.)
	Name	Sh. Vinjabhai Modedra S/o Dudabhai Modedra
	Designation(Owner/Partner/CEO)	Owner
	Address:	Near Village – Kutiyana, Taluka.- Kutiyana District - Porbandar (Guj.)
	Pin code	
	E mail	yoganandim69@gmail.com
	Telephone No.	+919427734044
	Fax No.	—
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo- sheet.	It is a site specific project, so there is no need for alternative site. Key Plan Enclosed .
17.	Interlinked Project	No
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	Not Applicable because no forest land,

	approval/clearance under : a) The Forest(Conservation)Act, 1980 b) The wildlife(Protection)Act, 1972 c) The C.R.Z. Notification,1991	Wild Life Sanctuary & C.R.Z. exist within 12 km(Lease Area).
22.	Forest land Involved(hectares)	No forest land involved.
23.	Whether there is any litigation pending against the project and / or land.	No any litigation pending against the Project /or land.

- Capacity corresponding to sectorial activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc..)

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 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 border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S. No.</th> <th>Land use category</th> <th>Pre Operational Phase</th> <th>Operational Phase</th> <th>Post Operational Phase</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pits</td> <td>0.5342</td> <td>0.6728</td> <td>0.0000</td> </tr> <tr> <td>2</td> <td>Dump</td> <td>0.00</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td>3</td> <td>Plantation</td> <td>0.00</td> <td>0.3272</td> <td>0.3272</td> </tr> <tr> <td>4</td> <td>Road</td> <td>0.000</td> <td>0.0000</td> <td>0.00</td> </tr> <tr> <td>5</td> <td>Infrastructure</td> <td>0.000</td> <td>0.0000</td> <td>0.00</td> </tr> <tr> <td>6</td> <td>Back filled mine out area</td> <td>0.000</td> <td>0.0000</td> <td>0.000</td> </tr> <tr> <td>7</td> <td>Water Storage</td> <td>0.000</td> <td>0.000</td> <td>0.6728</td> </tr> <tr> <td>8</td> <td>Remaining Virgin Govt. land</td> <td>0.4658</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td></td> <td style="text-align: center;">Total</td> <td style="text-align: center;">1.00.00</td> <td style="text-align: center;">1.00.00</td> <td style="text-align: center;">1.00.00</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Total 0.3272 hect. area will be used for plantation on statutory barrier • 0.6728 hect. area will be used as Rain water storage. 	S. No.	Land use category	Pre Operational Phase	Operational Phase	Post Operational Phase	1	Pits	0.5342	0.6728	0.0000	2	Dump	0.00	0.000	0.000	3	Plantation	0.00	0.3272	0.3272	4	Road	0.000	0.0000	0.00	5	Infrastructure	0.000	0.0000	0.00	6	Back filled mine out area	0.000	0.0000	0.000	7	Water Storage	0.000	0.000	0.6728	8	Remaining Virgin Govt. land	0.4658	0.000	0.000		Total	1.00.00	1.00.00	1.00.00	Yes	There will be permanent change in land use. At the end of five years of mine; following land use is envisaged. In tabular for.
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1.2	Clearance of existing land, vegetation and buildings?	No	No need for clearance of land.																																																		
1.3	Creation of new land uses?	No	--																																																		

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?	No	--
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	No	NA
1.9	Underground works including mining or tunnelling?	No	NA
1.10	Reclamation works?	Yes	Reclamation work will be done in the form of rain water storage or plantation.
1.11	Dredging?	No	NA
1.12	Offshore structures?	No	Not Applicable
1.13	Production & manufacturing processes?	Yes	Semi mechanized Open cast method of excavation. The soil cover will be removed by use of a JCB/Excavator. The RoM will be primarily produced by drilling and blasting.(Occasionally) The holes will be drilled by Jackhammers. The blasted RoM thus generated will be either dispatched directly to the crusher or for manual sizing in the lease area itself. The loading will be done manually and the produce shall be

			dispatched by Dumper/trucks.
1.14	Facilities for storage of goods or materials?	No	There will be no storage of goods or material at the mine site. The mineral will be stacked at the crusher site after crushing to required size and dispatched as per requirement of the client.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	No	No waste will be generated during mining. Only 1134 Cum. Top Soil will be generated which will be further used for plantation. On lease boundary.
1.16	Facilities for long term housing of operational workers?	No	Mostly local workers will be involved.
1.17	New road, rail or sea traffic during construction or operation?	No	The existing road will be used for mineral transportation during mine operation.
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 facilities required.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not Applicable
1.20	New or diverted transmission lines or pipelines?	No	Not Applicable
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	No Changes are proposed, which can affect the hydrology of

			the area.
1.22	Stream crossings?	No	Not Applicable.
1.23	Abstraction or transfers of water form ground or surface waters?	No	No abstraction or Transfer of surface water or ground water due to mining. required 3.0 KLD water will be drawn from nearby villages through water tankers.
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 mineral will be transported by contractor trucks.
1.26	Long-term dismantling or decommissioning or restoration works?	No	NA
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	NA
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Both temporarily and permanent
1.29	Introduction of alien species	No	Not applicable
1.30	Loss of native species or genetic diversity?	No	Not applicable
1.31	Any other actions	No	Not Applicable

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).	No	This is Govt. waste Land.								
2.2	Water (expected source & competing users) unit : KLD	Yes	The ground water will be drawn from nearby village Competing users will be Local people of nearby village <table border="1"> <tr> <td>1. Dust Suppression</td> <td>1.50</td> </tr> <tr> <td>2. Drinking</td> <td>0.50</td> </tr> <tr> <td>3. Green belt</td> <td>1.00</td> </tr> <tr> <td>Total</td> <td>3.0 KLD</td> </tr> </table>	1. Dust Suppression	1.50	2. Drinking	0.50	3. Green belt	1.00	Total	3.0 KLD
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2.3	Minerals(MT)	Yes	Black trap 25,000 TPA								
2.4	Construction material-Stone, aggregates and /soil(expected source-MT).	No	Not Applicable.								
2.5	Forest and timber(Source-MT)	No	Not Applicable.								
2.6	Energy including electricity and fuels (source. Competing users) Unit : fuel(MT), energy(MW)	Yes	No electricity will be required. Fuel (Diesel) will be obtained from authorized public petrol pump & about 130 lits./day Diesel will be used.								
2.7	Any other natural resources (use appropriate standard units)	No	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	Only ANFO will be used as explosive to liberate RoM from the host rock. However no explosives will be stored at the mine site, and the requisite quantity will be brought to the site by an certified blaster man before use.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No change in occurrence due to Mining.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Proponent will look after the undeveloped area to improve the socio-economic level and enhance the skill of the local people. About 17 local persons will get employment. Village Kutiyana will be adopted for social development like hand pump for drinking water, constructing of washroom for girls on govt. places and play ground for school and regular health camp will be organized. Total fund is about Rs. 1,00,000/- Annum.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	The proposed project shall not affect any vulnerable groups of people in the near Vicinity.
3.5	Any other causes	No	Not Applicable.

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	Soil, overburden or mine wastes	Yes	About 1134 cum top soil.
4.2	Municipal waste (domestic and or commercial wastes).	No	NA
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No hazardous waste will be developed during mining.
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 till closer of mining operation.
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	Diesel (130 lits / day) will be used in machineries during mining. Mostly mobile equipment's. Their expected emission will be very less and will

			have less impact.
5.2	Emissions from production processes	Yes	The diesel engine will be produce emissions.
5.3	Emissions from materials handling including storage or transport.	Yes	Dust emission from handling of material and transport, which will be very less and cause very less impact.
5.4	Emissions from construction activities including plant and equipment	No	No construction activities involved.
5.5	Dust or odors from handling of materials including construction materials, sewage and waste	No	Only dust emission from handling of material, which will be very less and does not cause any negative impact. No odor will develop.
5.6	Emissions from incineration of waste	No	No waste will be generated during mining only 1134 Cum top soil will be generated during mining which will be further used for Plantation on statutory barrier.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	No waste will be burned during course of mining.
5.8	Emissions from any other sources	No	No other sources for emission.

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	There will be a momentary generation of noise and vibration by blasting. The crushing plant will also produce noise and vibration during operation.

6.2	From industrial or similar processes	No	No industry or similar process exist within the lease area.
6.3	From construction or demolition	No	No construction/demolition involve during course of mining.
6.4	From blasting or piling	Yes	Blasting is proposed for production of RoM. Since the daily production is about 83 Tons, the blasting will be occasional with its affects lasts momentarily.
6.5	From construction or operational traffic.	Yes	During operational stage running of trucks will produce very less noise, which will not cause any impact.
6.6	From lighting or cooling systems	No	Not applicable
6.7	From any other sources	No	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	Only ANFO will be used as explosive to liberate RoM from the host rock. However no explosives will be stored at the mine site, and the requisite quantity will be brought to the site by an certified blaster man before use.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	No waste water will be discharged.

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 it is non-toxic.
7.4	From any other sources	No	No other sources.
7.5	Is there a risk of long term buildup of pollutants in the environment from these sources?	No	No long term buildup so there is no such risk.

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	Though the explosives will be used for production, it will be controlled and conducted by a certified blaster man. There will be no storage of explosives at the site. Proper precautions as laid down by regulations will be followed while conduction the blasting in the area.
8.2	From any other causes.	No	No other causes.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. Floods, earthquakes, landslides, cloudburst etc.)	No	The area fall in Seismic zone III for earthquakes.

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 data
9.1	<p>Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 	<p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>	<p>NA</p> <p>Only temporary rest shelter would be made.</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p>
9.2	Lead to after-use of the site, which could have an impact on the environment.	Yes	Part of the excavated area will be used for rain water storage and which will have a positive impact.
9.3	Set a precedent for later developments	No	Not required.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects.	No	Not required.

(III) Environmental Sensitivity:

S. No.	Areas	Name / Identity	Aerial distance (within 15km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value.	No	Not Applicable
2	Areas which are important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Yes	---
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration.	None	Not Applicable
4	Inland, coastal, marine or underground waters.	None	Not Applicable
5	State, National boundaries	None	Not Applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	NH 8E	0.300 km towards S
7	Defense installations.	None	Not Applicable
8	Densely populated or built-up area.	Yes	Kutiyana Village.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities).	Yes	There are many primary schools, dispensaries, small hospitals, places of workshop within 10 km from project site.
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Yes	The area is rich in Mineral Black Trap
11	Areas already subjected to pollution or environmental damage. (those	None	NA.

	where existing legal environmental 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).	Seismic zone	Zone III

Undertaking

I hereby given an undertaking that the data and information given in the application and enclosures area 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 give, if any to the project will be revoked at our risk & cost.

Date.....

Place.....

Vinjabhai D. Modedra
(Signature of Lessee)