

PRE – FEASIBILITY REPORT

For

RIVERBED ORDINARY SAND MINING PROJECT

CAPACITY- 2511 MT/MONTH (150672 HECTARE)

(AT-RAJ RAJESHVERI SO., SUNRISE SCOOOL BEHIND, DALMILL ROAD,
SURENDRANAGAR)

SECTOR-1 (A)-CATEGORY 'B'

LOCATION

AT-RATANPAR, TA-TALAJA, DI-BHAVNAGAR

LEASE HOLDER

SHREE HITENDRASINH CHOTUBHA JHALA

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LIST OF ABBREVIATIONS

SEIAA	STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
SEAC	STATE EXPERT APPRAISAL COMMITTEE
EC	ENVIRONMENTAL CLEARANCE
GPCB	GUJARAT POLLUTION CONTROL BOARD
MT	METRIC TONNE
IMD	INDIAN METEOROLOGICAL DATA
SOX	OXIDES OF SULPHUR
NOX	OXIDES OF NITROGEN
PUC	POLLUTION UNDER CONTROL
KL	KILO LITER
PPE	PERSONAL PROTECTIVE EQUIPMENTS

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1.0 PROJECT GLIMPSE

The proposed project is for surface mining of Ordinary Sand (riverbed sand) from the SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40- AT-RATANPAR, TA-TALAJA, DI-BHAVNAGAR by the Lease SHREE SHREE HITENDRASINH CHOTUBHA JHALA.

The lease, located on AT-RATANPAR, TA-TALAJA, DI-BHAVNAGAR is approved and allotted by the industries and mines department – Botad their Lease no.NO.AGB/QL/ORDINARY SAND/E-AUCTION/2014-2015/RATANPAR/BLOCK-B/3586/DATE-03/07/2015 YEAR -05.

The total leased area of the SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 assigned to the lease holder SHREE HITENDRASINH CHOTUBHA JHALA is 7.12.40 hectare.

The copy of Order of lease is attached as **annexure a**

The mining of ordinary sand from riverbed is categorized as category “B” under item 1 (a) of the gazette notification dated 14th September, 2006 and various amendments.

In light of the above, the lease holder : SHREE SHREE HITENDRASINH CHOTUBHA JHALA intends to apply for the environmental clearance from the seiaa/seac Gujarat for mining of riverbed sand (ordinary)

From the mine approved by the industries and mines department- government of Gujarat for the quantities as mentioned below:

Sr . no.	Name of mineral	Capacity in mt/month	Capacity in mt/annum
1.	Riverbed ordinary sand (from river SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40)	2511	150672

Table no:1

The mining quantity of the ordinary sand from the sr.no.SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40–RATANPAR at the capacity shall be 63071 mt for 03 years.

2.0 Salient features of mine

the 7.12.40 hectare mine on thr riverbed of SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 is in close proximity to the nearest village RATANPAR which falls under the UMARALA taluka of BHAVNAGAR.

The SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 is in all sense seasonal /non perennial in nature. The details procured from the imd, geological survey etc. purely states that the is active 4-5 months of monsoon which falls in July to October each year in the region.

The SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 is dry and bearing rich ordinary sand during the remaining moths of the year and itself reclaims during the monsoon.

The mineral, i.e. ordinary sand has a very high commercial value and is a viable building material. The close proximity of the mine from the district place plays a major role in sufficing the local building /construction sites and thus be a helping hand in sustainable development of the region.

The mine has a close proximity to the pucca road Umarala-Chogath Rd, Gujarat 364330 only. The approach road from the pucca road to the mine is kutchra in nature and is maintained by the lessee by regular sprinkling of water. The symbiosis of local farmers using the road to reach their respective farms is a regular site near the mine.

There is no national park , wildlife sanctuary , biosphere reserve, notified/protected archaeological sites etc. within the 10km radius of the mine.

The minimum buffer distance from the local check–dam is approximately 0.5 km. however, due to non-perennial/season nature of the SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 the near proximity shall not be a major hazard considering the fact that the mining is only done in the dry months and with appropriate personal protective equipments.

Table:2 land usage area within the mine

Sr. No.	land use	Area in hectare
A	Mine area (rich in ordinary sand)	SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40
B	Forest land	NIL
C	Irrigated land	NIL
D	Cultivable land	NIL

Table no: 2

Table: 3 detailer of salient fertures

Feature	description
Mine address	Sr. no.: SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40, AT-RATANPAR, TA-TALAJA, DI-BHAVNAGAR
Latitudes & longitudes of the mine	(A) 21.840439-N, 71.824816-E (B) 21.839761-N, 71.824730-E (C) 21.840339-N, 71.833571-E (D) 21.841076-N, 71.833485-E
Total area of leased riverbed	7.12.40 hectare (river SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40)
Type of land	Government leased (..... year)
Nearest highway	=Umarala-Chogath Rd, Gujarat 364330
Nearest railway station	=DHOLA JUNCTION
Nearest airport	=N.A
Nearest town/city	=RATANPAR
Nearest settlement	=RATANPAR
Nearest dist. Headquarter	=BHAVNAGAR
National park/ Reserved forest	None within 10 Kms .radius

3.0 Details of mining

3.1 mining methods

The mining in the lease area of 7.12.40 hectare shall be carried out by surface semi-mechanical manner.

As the project is for Riverbed, no blasting is envisaged. The mine is on SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 which is non perennial / seasonal in nature. Thus, mining is only to be conducted in the dry month of the year and hence no dredging is envisaged. No breaking is also envisaged.

The sand from the riverbed shall be Directly Loaded in the Trucks, tractors etc. by the mechanical loader attached with sever.

The loaded vehicles covered with tarpaulin are then dispatched directly to the end user.

Approximately 5 % of the mine waste shall be collected in the stock pile and shall be used for restoration/ reclamation of the mined out area in such a way that course of riverbed is not disturbed.

3.2 pollution control strategy in the mining area

3.2.1 air pollution:

There is no stationary air pollution source in the mine as only surface semi-mechanized mining is to be conducted.

However, as far as the fugitive emissions are concerned, there shall be momentary rise in the suspended particulate matter, sox, Nox, due to the vehicular movement, loading and transportation of the mineral for which adequate measures shall be taken as stated below:

- Regular spraying of water in lease area and near surface working.
- Regular maintenance of the vehicles and equipments
- Covering the trucks with tarpaulin covers and speed limit will be maintained @ 20 kmph
- Only puc certified vehicles will be employed
- Riparian flora will be maintained and strengthened

Water pollution:

The project does not envisage any water pollution as there is no industrial process involved in the mining of the riverbed sand.

The only use of water will be for domestic (drinking purpose) and for sprinkling on the haulage road and within the mine as a air pollution control measure to abate the fugitive emission.

The water requirement for the mining activity is as below:

Table :4 water break-up

Sr. No.	Category	Water consumption in kl/day	Waste water generation in kl/day
1	Domestic	0.050	NIL
2	srinkling	0.250	NIL

TABLE NO:4

As per above, there shall be no discharge of water from the mining project.

3.2.3 noise pollution

Loading, filling and Transportation of the sand from the mine shall generate a marginal noise which is non-continuous in nature. However adequate measures to abate the same shall be taken to reduce the same as stated below:

- The mining activity shall be strictly carried out during the daytime i.e. 6 am to 6 pm
- Regular maintenance of the vehicles and equipments
- Providing adequate ppe’s such as ear muffs, ear plugs etc. to the eorkers.

3.2.4 solid waste pollution:

The only solid waste generated from the mining activity is 5 % of the mine waste which shall be collected in the stock pile and shall be used for restoration/reclamation of the mined out area in such a way that course of riverbed is not disturbed.

4.0 anticipated environmental impact

4.1 impact on topography:

The mining will be done up 1 meter depth and thus, a marginal impact on topography will occur which is not permanent as the same will be replenished by fresh ordinary riverbed sand during the monsoon season.

Also, as a preventive measure to curb soil erosion, a minimum setback of 10 meters from the riverbank will be kept.

4.2 impact on flora & fauna:

As the mining is confined to the riverbed of SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 and without blasting or drilling, no adverse impact on the nearby flora and fauna is anticipated.

Moreover, the region is void of any major fauna within the mine area.

4.3 impact on top soil:

The project is for mining of riverbed sand which is present as a top-soil in the mine. Thus, the same will be collected by semi-mechanized manner and sold off to actual users.

The same shall be naturally replenished during the months of the year.

4.4 impact on socio economic:

The mining shall be carried out in the government approved lease riverbed of SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 which attributes 7.12.40 hectare.

There is no inhabitation within the mine as it falls on the riverbed of SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 and hence does not envisage any negative socio economic impact

However, positive impacts such as direct/indirect employment to about 10-20 individual with increased standard of living is anticipated.

5.0 Land reclamation

Approximately 5 % of the mine waste shall be collected in the stock pile and shall be used for restoration/ reclamation of the mined out area in such a way that course of riverbed is not disturbed.

Moreover, the natural stream of SR.NO-64 TO 75, 116,117,91- KALUBHAR RIVER BLOCK-B - 7.12.40 has the potential of self reclaiming the natural reserves during the monsoon months of the year.

6.0 green belt development

The lessee has already undertaken a green drive as is corporate responsibility and to extend a helping hands to the sustainable development of the region taking part in community plantation programs.

The lessee will also natural and strengthen the riparian green belt area as a moral responsibility.

7.0 personal protective equipments

The lessee has employed adequate personal protective equipments for its workmen working within the mine. List of personal protective equipments provided to the employees are as mentioned below.

- industrial safety boots
- industrial grade helmets
- Hand gloves
- Ear muffs/plugs
- Face masks

8.0 Cost of environmental protection measures

Table: 5 recurring cost of environmental protection measures

Sr. No.		Recurring cost per annum (in rs.)
1	Air pollution control	15,000
2	Noise pollution control	5,000
3	Occupational health & safety	10,000
4	Green belt management	5,000
5	Community welfare (shared)	10,000
	TOTAL	45,000

Table no- 5

9.0 occupational health & safety

the lessee believes in maintaining a good employee-employer relationship which is a direct outcome of healthy occupation health and safety governance.

Practice has been governed to achieve cent percent safety of employees during operation of mines as below.

- Covered shed for workers to relax.
- Availability of first aid kit on the site.
- Proper ppe shall be provided to workers.
- Accident log book shall be maintained

- Regular health check-up
- Water quality check up (for drinking)
- Provision of toilets in near proximity to the mine