

# *PFR*

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### 1. EXECUTIVE SUMMARY

Particulars	Details
Project name	MOKALAWAS (CHOUNKHA) SANDSTONE MINE
Location	Near village –MOKALAWAS, Tehsil – Jodhpur and District – Jodhpur, Raj
Total Mine area	0.18 hect.
Mineable Reserves	424 48MT
Capacity	Proposed production –1710 TPA
Life of Mine	27 Years
Estimated project cost	03.00 lacs
EMP Cost	30 Thousand
Power Requirement	NA
Fuel Requirement	10 lits. /day
Tractor & jack Hammer	1 set
Land use	The quarry area is Govt. Waste Land.
Nearest habitation/ town	MOKALAWAS,2.6 km from quarry area
Nearest Airport	Jodhpur (11.2 km in SE)
Nearest Highway	NH 114-5.2 km in N
Nearest Railway Station	Jodhpur Railway Station-9.2km in SE
Power supply	MOKALAWAS (CHOUNKHA)
Nearest Telephone	MOKALAWAS(CHOUNKHA)

Nearest Dispensary and Govt. Hospital	MOKALAWAS(CHOUNKHA)
Educational facility	MOKALAWAS(CHOUNKHA)
Water demand and supply	0.75KLD, Source-Bore well and water tankers
Nearest tourist places	None within the study area
Defense installations	None within the study area
Archeological Features	None within the study area
Ecological sensitive zones	None within the study area
Nearest streams/ rivers/ water bodies (from mine boundary)	-
Seismic zone	Seismic zone – II.

## 2.0 INTRODUCTION OF PROJECT / BACKGROUND INFORMATION

Mining project of Mineral Sandstone Quarry area with Q.L. No.-24 . The project is located near village – MOKALAWAS(CHOUNKHA)Tehsil – Jodhpur and District – Jodhpur, Raj. Quarry area– 0.18 ha. Proposed production–1710 TPAof Sandstone.

### 2.1 Identification of the project and project proponent

<b>Name of the Project</b>	MOKALAWAS (CHOUNKHA)Sandstone mine.
<b>Name of the QL holder</b>	SH. MANISH S/O SH. MOHAN SINGH RAJPUT
<b>Location of the project</b>	Near Village –MOKALAWAS Tehsil –Jodhpur, Dist. – Jodhpur (Raj.),
<b>Proposed Production</b>	1710 TPA
<b>Lease Area</b>	0.18 hect. (Govt. Waste Land)
<b>Mob. No.</b>	9950888724
<b>Email</b>	JMCMINING@GMAIL.COM
<b>Status of the Applicant</b>	Q.L. License Holder

### 2.2 Brief Description of nature of the project-

- The Simplified mining Scheme has been approved in favor of SH. MANISH S/O

## SH. MOHAN SINGH RAJPUT

- The quarry Lease was granted in Favor of Sh. Indra Singh.
- The QL has been tranfered in favor of SH. MANISH S/O SH. MOHAN SINGH RAJPUT .

### **Nature of the Project**

- Mining of Sandstone mine is proposed in the quarry area of 0.18 ha. (Govt. Waste Land), Near village–MOKALAWAS, Teh–Jodhpur, District – Jodhpur, Rajasthan. Mining will be carried out by Opencast Semi-Mechanized method. Proposed production is 1710 TPA.

### **2.3 Need For The Project And Its Importance To The Country:**

The Mining project falls in the area of the district Jodhpur, Rajasthan devoid of sufficient agriculture activities and other industrial growth. The earning sources of the region are limited. The region has scarcity of water. Mineral wealth of the state Rajasthan provides the employment opportunity to the people of the state. Mining is one of the major core sector industries which play a crucial role in the process of country economic development.

### **2.4 Demands-Supply**

Uses of Sandstone to preparation of road & other Construction work.

Sandstone is used for the construction of walls, columns, lintels, arches, beams, etc., of a building. Stones are abundantly available in nature and when cut and dressed to proper shapes, they provide an economical material for the construction of various parts of building.

### **2.5 Imports vs. Indigenous Production**

There will be no import for the project. There will be indigenous inputs in the entire mining activity.

## **2.6 Export Possibility**

The mining activity is not prospecting exports.

## **2.7 Domestic/Export Markets**

QL holder would like to sale out the mineral in domestic market as per requirement. No export is proposed.

## **2.8 Employment Generation (Direct or Indirect)**

The mining project will generate direct & indirect employment. About 06 people will get direct employment and 4-5 people will also be affected indirectly and employed with allied and related industries, such as transportation, maintenance, etc.

## **3.0 PROJECT DESCRIPTION**

### **3.1 Type of Project including interlinked and interdependent projects:**

The proposed project is mining unit of sandstone. It is proposed to produce 1710 TPA. Quarry area is situated at N/v –MOKALAWAS, Tehsil –Jodhpur & Dist. –Jodhpur, Raj.

No Interlinked or Interdependent project.

### **3.2 Location**

Village : MOKALAWAS  
Tehsil : Jodhpur  
District : Jodhpur  
State : Rajasthan

The entire project area is 0.18 hectares. The quarry area is a Govt. Waste Land.

## **TOPO SHEET NO. WITH LATITUDE AND LONGITUDE**

The quarry area forms a part of Survey of India topo-sheet no. 45B/15. The quarry area is located at following latitude and longitudes:

26°18'41.4"N & 24 °56'32.1"E

**3.3 Details of Alternate Site Considered and the Basis of Selecting the Proposed Site, Particularly the Environmental Considerations Gone Into Should Be Highlighted:**

Mining is site specific project and limited to mineralized area.

**3.4 Size/Magnitude of Operation:**

It is proposed to produce 1710 TPA(ROM) in the area of 0.18hectares by open cast Semi-Mechanized method of mining.

**3.5 Project Description with process details**

The mineral produced here will be used as a dimensional stone. It is proposed to produce1710 TPA of sandstone.

**Year Wise Production:**

<b>Year</b>	<b>Total salable sand stone MT</b>	<b>Total Waste/soil/ Overburden in MT</b>
<b>First Year</b>	1710	90
<b>Second Year</b>	1710	90
<b>Third Year</b>	1710	90
<b>Fourth Year</b>	1710	90
<b>Fifth Year</b>	1710	90
<b>Total</b>	8550	450

**Proposed method of mining**

The mining shall be started from the west side of the area. The mined mineral shall be collected in the mineral stack yard and then sorted manually before its final dispatch to various industries through trucks. The waste

generated shall be carried through dumpers to the dump yard. The Bench height shall 2m & bench width also 2 m.

- ✓ The deposit has occurrence on the surface.
- ✓ The height of the benches is proposed to be kept 4 meters and width of the benches will be no case less than the height of the bench.
- ✓ Direction of the advancement will be toward the west direction.
- ✓ Approach road to the each faces will be maintained at the gradient of 1 in 16 and width of the road will be kept 6m.
- ✓ Ultimate pit slope shall be maintained at 45°.
- ✓ Provisions of MMR 1961 will be strictly be adhered.

### **Drilling**

The drilling will be done with the help of compressor and jackhammer. In this mine the diameter of hole will be 32-34 mm and depth of hole will be kept 0.8 m to 3.3 min a single hole.

### **Blasting:-**

No Blasting will be Done, Only Manual Process to be used to breaks the rocks into the Blocks.

### **Loading and Transportation**

Loading of Sandstone mine will be done are loaded in truck by manually. The trucks will be used for transportation of Sandstone mine from mine site to destination.

### **Extent of Mechanization:**

Initially Excavator & Dumpers will also arrange on hire basis.

### Details of Proposed Mining Machinery

Machine	Nos.
Jack Hammers	1
Compressor	1
Chain Pully Block	1
Tractor & Trolley	As per requirement
Jib Crane	1

- 1. Excavation & loading of mineral from face:** As indicated earlier, it is proposed to use hydraulic excavation of 1.2 cum, bucket capacity for exaction & loading of material from the mine face. The production from the mine can be maintained during the next five years by working 1 shift per day. Excavation will be done on hire basis.
- 2. Excavation & Loading Capacity of Loader:** The loading capacity of Excavator & Loader are given by the following equation:

$$L = B \times r \times n \times t \times E/K$$

Where

L = Excavator & Loading capacity per shift in cum.

B = Bucket capacity in cum. (0.90 cum.)

r = Co- efficient of filling of filling (assumed 0.8)

n = Avg. number of exaction working hours in a shift (taken as 50 on the basis if cycle time of 2.0 min.)

t = No. of effective working hours in a shift (taken as 6.0)

E = Efficiency of utilization (assumed as 0.24 )

K = Swell factor (taken as 1.25 i.e. 25%)

$$L = 1.2 \times 0.8 \times 50 \times 6 \times 0.24 / 1.25 = 264.32 \text{ cum/shift (stay 264 cum.)}$$

**3. Number of Excavator Required:** Therefore number of excavators required for mineral production comes to 1 NO. On Hire basis.

A 25 H.P. diesel engine operated pump has deployed in the mine for pumping out accumulated rain water from pit bottom on hire basis

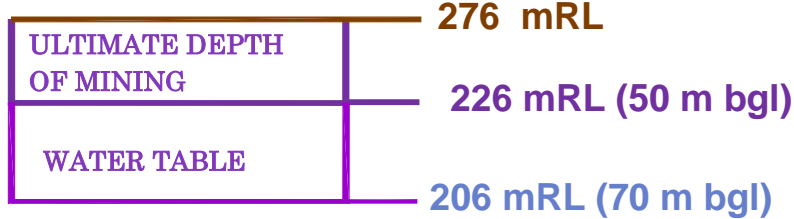
## Ground Water Table

Proposed working will not intersect ground water.

### 3.6 Availability of water its source, energy/power requirement and source

Total water requirement in the mine will be about 0.75 KLD for drinking, spraying and plantation. Water will be available through bore well from village MOKALAWAS(CHOUNKHA) and through water tankers .Detail of water requirement in 0.75 KLD is given below:

#### GENERAL SURFACE LEVEL



belt

\_ 0.25

1. Dust Suppression - 0.25
2. Drinking - 0.25
3. Green

**Total – 0.75 KLD**



Diesel for trucks/equipment – about 10 Lt. per day is assumed to be consumed. Diesel will be brought from outside, from nearby diesel pumps.

**3.7 Quantity of wastes to be generated (liquid and solid) and scheme for their management /disposal:**

The waste rock obtained will be the Sandstone rock pieces, which do not have any market value. These are obtained while sizing of the rock & also at the time of blasting. Total cum swelled waste will be generated. This waste material will be used for backfilling of mined out area. After mined out area is backfilled. Additional waste if any will be stacked over backfilled mined area.

<b>Year</b>	<b>Total salable sand stone MT</b>	<b>Total Waste/soil/Overburden in MT</b>
<b>First Year</b>	1710	90
<b>Second Year</b>	1710	90
<b>Third Year</b>	1710	90
<b>Fourth Year</b>	1710	90
<b>Fifth Year</b>	1710	90
<b>Total</b>	8550	450

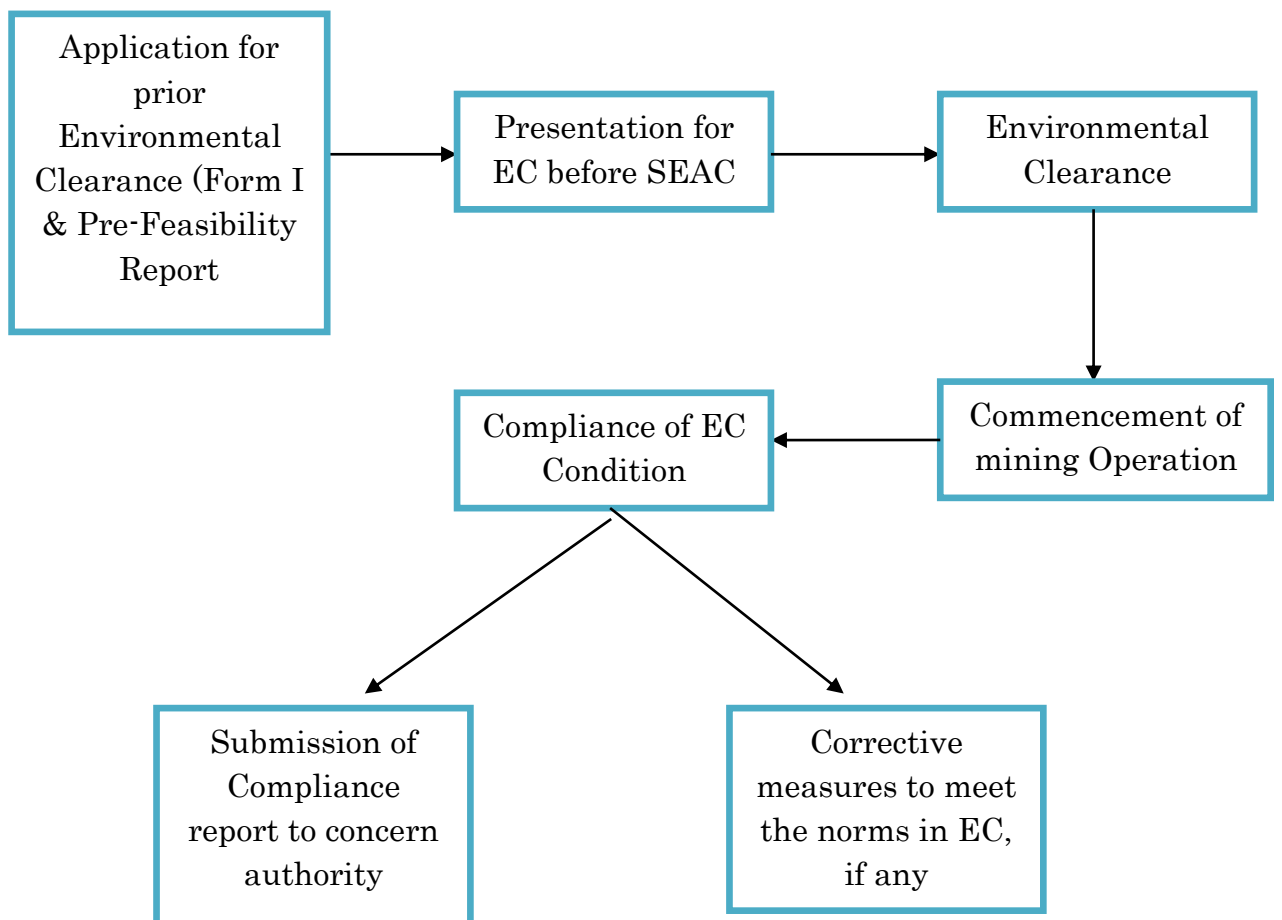
**3.8 Resource Optimization/Recycling and Reuse Envisaged In the Project, If any, Should Be Briefly Outlet:**

N.A

**3.9 Raw Material Required Along With Estimated Quantity, Likely Source, Marketing Area of Final Products, Mode of Transport of Raw Material and Finished Product.**

The project will itself generate raw material i.e. Sandstone mine and proposed production is 124 0 tones/annum. Transportation of Sandstone mine will be done by trucks to the destination place.

**3.10 Schematic Representations Of The Feasibility Drawing Which Give Information Of EC Purpose:**



#### 4.0 SITE ANALYSIS

The quarry areas are for mineral Sandstone which is suitable for use in Masonry Slabs/Tiles Flooring, Monuments and other construction works. The selected site has the following advantages.

1. The area chosen is not having habitation.
2. The site is well connected by road.
3. There are no industries near the site and there is no pollution.
4. No endangered species around the mine site.
5. Availability of labors from nearby villages.
6. Proximity to the market.

#### 4.1 Connectivity:

##### Connectivity details from Project Site

Sr. No.	Particulars	Details
1.	Road Connectivity	The village MOKALAWAS(CHOUNKHA), nearest population center is 2.6km away from the applied area & it is connected with other important towns and cities through a good network of roads with regular public transport services. The Tehsil & District Headquarters of Jodhpur is at a distance of 11.2 km by road .The nearest railhead is at Jodhpur road at a distance of 9.2 km from lease area.

2.	Nearest Highway	NH-14( 5.2 km in SE)
3.	Nearest Railway Station	The nearest railhead is at Jodhpur at a distance of 9.2km from lease area
4.	Nearest Airport	The nearest civilian airport for regular commercial flights is at Jodhpur the road distance from the applied area is around 11 km.

#### 4.2. Land form, land use and land ownership:

The Quarry area is in Govt. Waste Land.

Lease Area : 0.18  
Village : MOKALAWAS  
Tehsil : Jodhpur  
District : Jodhpur  
State : Rajasthan

#### 4.3 Existing Land use Pattern

The quarry area is Govt. Waste Land (0.18hect.). There is no village or hutments within the lease area. Existing land use pattern is given as below:

Sr. No.	Particulars	Existing Land Use Pattern
A)	Mining Activity	
1	Pits	0.028
2	Dumps	0.000
3	Road	0.000
4	Plantation	0.000
5	Infrastructure (office)	0.000
6	Top Soil storage (temporary)	0.000
7	Mineral Storage	0.000
B)	Remaining Govt. waste land	0.017

	<b>Total area</b>	<b>0.18hect.</b>
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#### **4.4 Existing Infrastructure**

Commensurate with the scale of mining operations, the requisite support facilities are proposed to be provided, which are adequate to meet the functional requirement of the mine. Site services such as mine office cum rest shelter, first aid station, toilet etc are already available. Water will be available through bore well from village MOKALAWAS and through water tankers.

#### **4.5 Soil / rock classification**

The country rock exposed in the quarry area Sandstone mine which belongs to Malani suite of igneous rocks post Delhi age.

#### **Regional Geology:-**

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Infect no detailed regional study of the area under consideration has been made during this course if study but the stratigraphy of the region of which this region constitutes, part has been worked out on the basis of limited traverse and available literature. The regional geology concept has been used

while studying that local geology of the area. The original geological sequence of the region as described by HS Pareek (1983)

Age	Group	Super Group	Lithology
Lower Cambrian (570Ma)	Nagaur Group	Tunklian	Red clay stone, Siltstone, Calcareous clay & Gritty to peddy sandstone
(Marwar Supergroup)	Jodhpur Group	Nagaur Sandstone Pundlo Dolomite	Red Clay stone, Siltstone, Claystone conglomerate Dolomite, Dolomite Limestone, Chert Dolomite Limestone
	Jodhpur Group	Gotan Limestone Dhanapa Dolomite Girbbakar Sandstone Sonia Sandstone	Carbonate, Snadstone, Banded Chert& Shale

**Local Geology :-**

- Geologically jodhpur sandstone belong to Soniya and Girbhakar formation of jodhpur group. Sandstone is quarried for masonry stone (Small Block), slabs & aslets.

- Sanstone is buff pink to grey coloured, medium to coarse grained in nature and is well sorted. The important mining area of sandstone is located around jodhpur city, viz., mandore, soorsagar, MOKALAWAS, berli, kailana, balesar, dechuchokri, osiyan, bhopalgarh etc.

#### 4.7 CLIMATIC DATA FROM SECONDARY SOURCES

The area is characterized by semi-arid with an average annual rainfall of about 600 mm, which is mainly received during monsoon season of July to September. There is a large variation of temperature in the area. In winter the minimum temperature goes to 1°C and maximum 10°C, while in summer it is 05°C and 50°C respectively. Relative humidity in the area is more than 70% during the monsoon season but is below 20% during the months of March-May. Wind velocity in the area is medium (5-20 m/min).

#### 4.8 SOCIAL INFRASTRUCTURE

- The infrastructure like, toilets, first aid stations etc. are there at mine site.
- The nearest village is MOKALAWAS, health & educational facilities (in the form of primary and secondary schools) are available there.
- Medical facilities, Primary Health Centre are there in the area, imparting services, for advance medical facilities. In each village one health worker has been appointed by the Govt. to provide primary health facilities.
- Village people are availing drinking water facilities generally from the hand pump, open well and tube well supply. The water supply is also supplied through tanker in few villages. During summer scarcity of water has been noticed.
- Communication services like post office and telephones are available in the nearby village. Some of the villagers are having mobile phones.
- An occupational health unit will be organized and the proposed measures will be adopted:
  - Pre & Periodical Medical Checkup program for all the workers.

- Compulsory medical checkup program and first-aid box with necessary equipment will be provided.
- Training for workers regarding occupational hazards.
- Safety equipment i.e. dusts mask, safety shoes, gloves etc.

## 5.0 PLANNING BRIEF

### 5.1 Planning Concept:

It is a mining project of sandstone. The proposed production of is 124 0 tones/annum of Sandstone. Opencast Semi-Mechanized method of mining will be adopted and transportation of mineral shall be done through road by trucks.

### 5.2 Population Projection

Man power requirement for mining is estimated to be 06 Nos. Most of the employees will be recruited from neighboring village. The laborers are provided along with tractor trolley by contractor or from nearby villages. So there will no permanently migration of people, hence there will be no population projection.

### 5.3 Land use Planning:

**Land use pattern (Hects.)**

Sr. No.	Particulars	Pre-Operational	Operational	Post-operational
<b>A)</b>	<b>Mining Activity</b>			
1	Pits	0.028	0.18	0.18
2	Dumps	0.0000	0.0000	0.0000
3	Road	0.0000	0.0000	0.0000
4	Plantation	0.0000	0.0000	0.0000
5	Mineral Stack	0.0000	0.0000	0.0000
6	Plantation On mined out benches	0.0000	0.0000	0.0000
<b>B)</b>	<b>Rain Water Storage</b>	0.0000	0.0000	0.0000
<b>C)</b>	<b>Remaining Virgin</b>			



	Govt. waste land	0.017	-	-
	<b>Total area</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>

#### 5.4 Assessment of Infrastructure Demand

The basic infrastructure is proposed in the quarry area like office, store, workshop and shelter for the workers. Water will be available through Tube well, Hand pump, Water Tank Supply in village MOKALAWAS from where regular water supply is being taken by labour. Most workers will be from nearby villages so no accommodation at mine site will be required. Medical facilities will be provided to the employees.

#### 5.5 Facilities Provided:

##### 5.5.1 Infrastructure

The basic infrastructure is available in the quarry arealike office, store, workshop and shelter for the workers. Water will be available through bore well, Hand pump, & water tank from village MOKALAWAS(CHOUNKHA) and through water tankers.. Most workers will be from nearby villages so no accommodation at mine site will be required.

##### 5.5.2 Landscaping and Green Belt Development

Alluvium present in the area, which will be used for plantation purpose.To improve the environment of the area proposal for plantation of Babool & neem trees has been made. It is proposed to plant 5 plant proposed at last five year in the applied area along boundary line BC

S.No.	Year of Plantation	Area Of Plantation	Target of Plantation
1	First year	0.003	03
2	Second year	0.003	03
3	Third year	0.003	03

4	Fourth year	0.003	03
5	Fifth year	0.003	03
Total		0.015	15

Place of proposed plantation: - The plantation shall be done at the following places:-

1. Nearby area of the School
2. At the Dump
3. at the pvt. Waste land
4. At Own Govt. Waste Land
- 5 nearby State Highway road

### 5.5.3 Health and safety System

During the opencast working, and allied activities, all the precautionary measures shall be taken into account as per MMR 1961 and MCDR 1988 for safety and security.

Following Safety & security measures will be enforced;

- Moving front of the quarry shall have temporary fencing.
- Permanent fencing will be provided where quarry has reached the ultimate pit limit.
- Mine entrance will have a permanent check post and record shall be maintained of all persons / vehicles entering the mine area.
- Round the clock security arrangement shall be provided to prevent inadvertent entry of persons.

### 5.5.4 Disaster Management and Risk Assessment

In spite of following all the precautionary measures and following all safety rules, regulations and procedures, in mining accidents cannot be ruled out completely. The Project Proponent will formulate a Disaster Management Plan with the approval of DGMS. Following are the accidents which can take place in mechanised opencast mining and measures proposed to be taken.

- Fall of human beings or fall of machines from benches/ dumps/haul roads.

- Due to drilling / blasting and handling of explosives.
- Fire & Explosion in machinery
- Emergency situation due to social reason such as public unrest, terrorism etc.

### **Preventive Measures:**

- Creating berm on the side of benches. / haul roads of height greater than or equal to  $\frac{1}{2}$  tyre radius. Minimum height of berm shall be 1.2 m and slope  $45^\circ$ . Minimum clearance of 1.5 m will be maintained between outer tyre and berm.
- All provisions of MMR 1961, conditions imposed in permission for Deep hole drilling and blasting and use of HEMM, and conditions of explosive license will be followed if required.
- Fire fighting equipment in the machinery/ workshop/ office will be maintained. Persons will be trained in the use of fire fighting equipment and mock rehearsal will be conducted.
- Training of security personnel.
- Procedures as laid down in Disaster Management Plan to be followed.

### **Training:**

Persons will be trained in the following:

- Knowledge of Chemicals and use of protective equipment
- Procedures for reporting emergencies.
- Location and use of fire fighting equipment
- Knowledge of alarm system and siren
- Evacuation procedures.
- Training in first aid as per Mines Rules 1955

### **Emergency Equipment & Facilities:**

- Mobiles.

- Fire fighting equipment's
- Emergency medical supplies

Other protective equipment's i.e. goggles, helmet, face shield, hand gloves, safety belts, barricade tape. First Aid station as per the provisions of Mines Rules 1955.

## 6. PROPOSED INFRASTRUCTURE

S.NO	Details	
1	Mining Area	0.18 hectares.
2	Residential Area	Not Applicable
3	Connectivity	The village MOKALAWAS,(CHOUNKHA) nearest population center is 2.6 km away from the applied area & it is connected with other important towns and cities through a good network of roads with regular public transport services. The Tehsil & District Headquarters Jodhpur is at a distance of 11.2 km by road. The nearest railhead is at Jodhpur at a distance of 9.2 km from lease area. NH-114 (5.2 Km in SE)
4	Green Belt	3 plants per year shall be planted in the lease area. Schedule of plantation for the next five year.  Place of proposed plantation: - The plantation shall be done at the following places:- 1. Nearby area of the School 2. At the Dump 3. at the pvt. Waste land

		4. At Own Govt. Waste Land 5 nearby State Highway road
5	Water Management	0.75 KLD, water will use during operation period, Source: Bore well and water tankers.
6	Power Management	N.A.
7	Waste Water	Domestic and office effluent will be treated in individual septic tanks.
8	Solid Waste Management	The waste dump generated will be stacked within the lease area.
9	Hazardous waste Management	N.A.
10	Social Infrastructure	Social Infrastructure is provided and if necessary other facilities will also be provided by mine's proponent

## **7. REHABILITATION & RESETTLEMENT PLAN**

Since the project site is a Govt. Waste Land and there is no village or hutments within the lease area. R&R is not applicable to this project.

## **8. PROJECT SCHEDULE**

### **8.1 Likely date of start of construction and likely date of completion (time schedule for the project to be given)**

The project activity will be started after getting the Environmental Clearance from SEAC, Jaipur.

### **8.2 Project Cost Estimation**

### **8.2 Project Cost Estimation**

**(A) Project Cost Estimation**

Estimated Project Cost with the proposed production is Rs.3/- lacs.

Site facilities & PPE for labours	= Rs. 0.50 lacs /-
Machinery & Tools	= Rs 1 lac/-
Financial assurance	= Rs 0.50 lac/-
PMCP	= Rs. 0.50/-
Social fund & activities	= Rs. 0.30 /-
EMP	= Rs. 0.30 lac/-
<b>Total cost</b>	<b>= Rs. 3.10 Lacs/</b>

**(A) Capital investment**

**C.S.R. ACTIVITIES (2% OF PROFIT)**

SI. No.	Activity	ESR
1	Provide drinking water facility in surrounding villages and schools by hand pump/dug well/water tank or funds for Ambulance	10,000/-
2	Health camps and free medicine	5,000/-
3	Clothes distribution to poor villagers	5,000/-
4	Educational support poor students specially girls	5,000/-
5	Ladies toilet	5,000/-
<b>TOTAL</b>		<b>30,000/-</b>

**(B) Operational cost-**

The mineral Sandstone mine will be mined from the quarry area and the cost of per ton of mining will be approx. Rs 225/- per ton.

**8.3 Economic Viability**

The anticipated cost of mining is Rs. 225/- per ton. Average sale value is Rs. 500/- per ton .Hence the project will be viable.

**9. ANALYSIS OF PROPOSAL**

- Project will create direct & indirect employment opportunities within the

surrounding region. Unit will use good faith efforts to employ local people from the nearby villages depending upon the availability of skilled & unskilled man-power surrounding the project site.

- In operation phase, the proposed project would require significant workforce of non-technical and technical persons. Migration of highly education and skilled experience will result in increase of literacy in the surrounding villages.
- In addition, the proposed expansion of project shall enhance the prospects of employment.
- Assessment of the potential socioeconomic benefits during mining focused primarily on work force requirements, acquisition of supplies, and the temporary increased demand for services related to the mining project like food, housing, communications, law enforcement, medical care, local transportation etc. Due to these, additional revenue to local suppliers for required products and services related to the construction and operation phases of the project will generate.
- Thus, mining activities will provide numerous new, although temporary, work opportunities for both skilled and unskilled labor, as well as contribute significantly to the local economy.
- Additional government revenue expected from royalty, taxes, duties and other fees.
- An added benefit to the proposed project will result in considerable growth of stimulating the industrial and commercial activities in the state. Small and medium scale industries may be further developed as a consequence.