CATEGORY: OFM

MINING PLAN

WITH

PROGRESSIVE MINE CLOSURE PLAN

(As Per MoEF & CC Notification No.-S.O.141 (E) Dated 15 Jan, 2016 & under Rule 34 of UP Minor Mineral Concession Rule 1963)

For

LAXMI NAGAR GRINT SOIL BRICK MINE

VILLAGE- LAXMI NAGAR GRINT, TEHSIL-MANKAPUR,
DISTRICT- GONDA (UP)
AREA: 4.383 ha. FOREST LAND: NIL
AGRICULTURAL LAND: 4.383 ha.
PLAN PERIOD: 5 YEARS

PROPONENT

M/S PAWAN BRICK FIELD

PROP.:- SHRI SHAILENDRA VERMA
S/O SHRI KASHIRAM VERMA
R/O-VILL.-SABEERPUR,TEH-MANKAPUR,DISTT.-GONDA (U.P)

PREPARED BY

PANKAJ PANDE

RQP/DDN/086/95/A

Valid upto: 14th February, 2021

AUTHORISATION LETTER BY THE APPLICANT/LESSEE

I, Shailendra Verma (Prop. of M/s PAWAN BRICK FIELD) hereby authorize Shri Pankaj Pande RQP No.RPQ/DDN/086/95A to prepare the Mining Plan as per MoEF& CC Notification No.-S.O.141 (E) Dated 15 Jan, 2016 & under Rule 34 of UP Minor Mineral Concession rule 1963 in respect of Laxmi Nagar Grint Soil Brick Mine, Plot No. 719, 793, 867, 1024, 1189 & 1196 over an area of 4.383ha situated in Village- Laxmi Nagar Grint, Tehsil- Mankapur, Distt-Gonda (U.P.)

I request to the Director, Directorate of Geology & Mining Lucknow to make further correspondence regarding modification and to collect the approved copies of the aforesaid Mining Plan with the said recognized person on his following address:

Name of RQP

Pankaj Pande

Registration No : RPQ/DDN/086/95A

Validity : 14.02.2021

Address of RQP

B1/21, Sector-B,

Aliganj, Lucknow-2206024

Phone No : 0522-4011565, Mob. 9415102339,

Fax No : 0522-328900

E mail : pankaj_pande@rocketmail.com,

: sahajsahyog990@gmail.com

Website : www.sahajsahyog.org

Place: Gonda

Date: **Your'sFaithfully**

(Shailendra Verma**)**

Gonda (U.P)

CERTIFICATE

I, PankajPande hereby certify that-

1. Provisions of Mines Act. Rules and Regulations made there under have been observed in the aforesaid Mining plan and wherever specific permissions are required the lessee will approach the Director General of Mines Safety.

2. It is further certified that the aforesaid Mining plan is prepared as per the copies of the records and documents provided by lessee and information given as per discussions held with lessee his representative.

3. It is also certified that the information's furnished in the aforesaid Mining plan are true and correct to the best of my knowledge & belief and in case of default the approval would be withdrawn.

Place: Lucknow

Date:

Name of – RQP PankajPande

Registration No. – R.Q.P./DDN/086/95A

Validity- 14-02-2021

CONTENT

LIST OF ANNEXURE

LIST OF PLATES

TITLE

Mining plan with progressive mine closure plan for LaxmiNagar Grint Soil Brick (Brick making by chimney Bhatta) mine measuring over an area of 4.383ha situated in Village- H.O. 5/16/19A, Chanakyapuri Faizabad Tehsil & District-Faizabad (U.P.) of M/s Pawan Brick Field.

INTRODUCTION

Proposed area of 4.383hectares, Plot No. 719, 793, 867, 1024, 1189 & 1196 in Village- Laxmi Nagar Grint, Tehsil- Mankapur, Distt-Gonda occupied by **M/s Pawan Brick Field** situated at Village- LaxmiNagar Grint, Tehsil- Mankapur, District- Gonda, (U.P) for Soil Brick (Brick making by chimney Bhatta). Copy of agreement along with Khasra details is enclosed **(Annexure no.1).**

Mining Plan is being submitted as per MoEF & CC Notification No.-S.O.141 (E) Dated 15 Jan, 2016 & under Rule 34 of UP Minor Mineral Concession rule 1963.

After approval of mining plan proponent shall obtain Environment clearance under MoEF & CC Notification No.-S.O.141 (E) Dated 15 Jan, 2016.

CHAPTER-1

1.0 GENERAL:

A) NAME OF THE LESSEE/APPLICANT WITH COMPLETE ADDRESS:

M/S PAWAN BRICK FIELD

Prop:- Shri Shailendra Verma S/o Shri Kashiram Verma

R/o- Vill.- Sabeerpur,Teh-Mankapur, Distt.-Gonda (U.P)

No.- Fax & email address facilities is available with lessee.

Copy of TIN No. is enclosed **(Annexure no. 2).**

B) STATUS OF LESSEE: Individual Firm

C) MINERAL, OCCURRING IN THE AREA & WHICH LESSEE INTENDS TO MINE:

Soil brick ((Brick making by chimney Bhatta)**:**

The project proponent has applied for mining the brick clay to manufacture kuccha bricks to be used further in brick kiln.

D) Name of R.Q.P. preparing the mining plans:

Pankaj Pande (R.Q.P)

Sahaj Sahyog Consultant Pvt. Ltd.,

B-1/21, Sector-B, Aliganj, Lucknow-226024

Phone: 0522 – 4011565

Mob No: +919415102339

The copy of RQP certificate is enclosed **(Annexure No.3)**

CHAPTER-2

2.0 LOCATION AND ACCESSIBILITY:

(a) **Details of area (with location map):** The site is located in Village– LaxmiNagar Grint, Tehsil- Mankapur, District-Gonda U.P. The excavation lease area falls in Survey of India. The location plan is enclosed as **Plate No. 1).**

District and State: Gonda, Uttar Pardesh

Taluka: Mankapur

Village: LaxmiNagar Grint

Gata No. 719, 793, 867, 1024, 1189 & 1196-

Copy of Khasra Map is enclosed as **Annexure No. 4**.

Lease Area (Hact.): **4.383hectares**

Whether the area is recorded to be in forest (please specify whether protected, reserved etc.) Ownership/Occupancy: The lease area is free from forest land. The land is owned by private land owners & land owners have given their consent for the excavated Soil Brick (Brick making by chimney Bhatta) from their respective land.

Existence of public road / railway line, if any nearby and approximate distance: Babhnan Khodare-Gaura-Chawiki Road which is about 4.0Km towards North-East direction from Project site. Railway Station is at Babhnan & it is about 7.0Kms towards South West direction from Project site.

latitude and longitude: The geological coordinate of the area N 27° 00’ 12.32” & E 82° 30’ 58.00”.

S.L NO	GATA NO.	Area (ha)
1	719	1.117
2	793	0.233
		0.233
		0.233
3	867	0.462
4	1024	0.396
		0.396
		0.396
5	1189	0.399
6	1196	0.518
Total		**4.383**

Land use Pattern (Forest agricultural Barren, Barren etc.):	The area exhibits agricultural land. The existing land use pattern is given below:

Sr. No.	**Land use**	**Agriculture land (ha)**	**Forest Land (ha)**	**Waste Land (ha)**	**Grazing Land (ha)**
1	Mining pits Quarry	-	-	-	-
2	Approach Road	-	-	-	-
3	Water tank	-	-	-	-
4	Human Settlement	-	-	-	-
5	Balance undisturbed land	4.383	-	-	-
	Total	**4.383**	-	-	-

b) **Attach a general location map and vicinity map showing area boundaries and existing and proposed routes. It is preferred that the area be marked on a Survey of India topographical map or a cadastral map or forest map as the case may be. However, it none of these are available the area should shown on an accurate sketch map on a scale of 1:50000**:

The lease hold falls in Village Laxmi Nagar Grint is approximately 55.0km in North West direction from Gonda. Babhnan Khodare-Gaura-Chawiki Road which is about 4.0Km towards North-East direction from Project site. Railway Station is at Babhnan & it is about 7.0Kms towards South West direction from Project site. The location plan is enclosed as **Plate No. 1.** The 5km Google map showing land use is shown in **Plate No.2.**

CHAPTER-3

3.0 GEOLOGY AND EXPLORATION:

a) Briefly describe the topography & general geology & local mine geology of the mineral deposit including draining pattern.

PHYSIOGRAPHY:

The proposed area is almost flat. No seasonal & perennial drainage exists within the area. The altitude of the area is about 95mRL. Brick Earth is exposed in the area applied for proposed project. No other rock is exposed. No habitation located in the proposed area. No PWD road passes through the area. The topography of lease area is shown in **Plate No. 3.**

REGIONAL GEOLOGY:

The general geological sequence of Gonda district can be classified broadly into two fold geological sequence viz. Vindhyan and Quaternary (Pleistocene, Recent to Upper Pleistocene). The whole of the district is covered by Pleistocene to sub-recent alluvial deposits of the rivers of the Indo-Gangetic system which have traversed this area. The deposition of the alluvium commenced after the final upheaval of the Himalayas and has continued all through the Pleistocene age upto the present. The alluvium in the district consists of interbeded deposits of sand, silt and clays. At places calcarious concretions (locally known as kankar) are associated with this alluvium. Kankar is very commonly found in the alluvium and quarried.

In simple language, the district is mostly covered by a thick pile of quaternary sediments. Quaternary sediment has been classified into (1) Older Alluvium and 2) Newer Alluvium. The older Alluvium of Middle to Later Pleistocene age. Newer Alluvium of Holocene age comprises of two units (1) Terrace Alluvium and (2) Channel Alluvium. The district is poor in minerals.

The general geological sequence of the formation is given below-

Group	Age	Formation	Lithology
Quaternary	Recent to Upper Pleistocene.	Newer Alluvium	Fine Sand, Silt & Clay
	Upper Pleistocene to Lower Pleistocene	Older Alluvium	Clay with Kankar and of different grades
Purana	Pre-Cambrian	Vindhyan	Sand stones & Shale and Lime stone

The sediments of newer alluvium are mainly arenaceous in nature and are found in topographically lower region. These sediments are loose, unconsolidated, flood plain deposits or back swamp deposits and are confined in narrow strips all along the present drainage system i.e Ghaghara river comprises mainly micaceous minerals while in north-eastern part along the bed of the river, the younger alluvium material resembles minerologically to older alluvium. The younger alluvium occupying extreme southern parts of the district differs in composition.

LOCAL GEOLOGY OF THE AREA

The facieses of the deposits are sandy, silty, and clayey. The soil of area is loamy type. The colour of loamy soil is light yellow. pH ranges from neutral to slight alkaline with all general characteristic of Indo Gangetic plain viz alluvial in nature, low conductivity and less carbon content suitable for brick making.

DETAILS OF EXPLORATION:

a) **Already carried out in the area:** No exploration was carried out with in area.

b) **Proposed to be carried out:**

Soil Brick (Brick making by chimney Bhatta) is available on the surface, thus prospecting is not needed.

METHOD OF ESTIMATION OF RESERVE:

The reserves are calculated by the following formula

Volume of Soil Brick (Brick making by chimney Bhatta) = excavable area × depth of Mine

Soil Brick (Brick making by chimney Bhatta) in tones = Volume of Soil Brick × bulk density.

The bulk density of the Soil Brick (Brick making by chimney Bhatta) is 1.2 tonnes per cum.

Probable category reserves = Total around 4.383hectares area

1.5m barrier all along boundary has been considered as barrier zone (Berm). The mineable reserves have been calculated inside the barrier zone.

Table No. 1.

Mineable Reserves

Sl No.	Gata No.	Total Area (ha)	Area Left for berm	Area Consider during Mining (h)	Depth as per Agreement (m)	Top Soil (0.20mtr)	Mineble depth as per (m)	Extractable Quantity of Soil (cum)	Agreement Period
1	719	1.117	0.2234	0.8936	1.5	1787	1.3	11617	5 Year
2	793	0.233 0.233 0.233	0.1398	0.5592	1.5	1118	1.3	7270	5 Year
3	867	0.462	0.0924	0.3696	1.5	739	1.3	4805	5 Year
4	1024	0.396 0.396 0.396	0.2376	0.9504	1.5	1901	1.3	12355	5 Year
5	1189	0.399	0.0798	0.3192	1.5	638	1.3	4150	5 Year
6	1196	0.518	0.1036	0.4144	1.5	829	1.3	5387	5 Year
		4.383	**0.8766**	**3.5064**		**7012**		**45584**	

Soil Brick (Brick making by chimney Bhatta) in Tonnes = volume * bulk density.

Brick Soil in Tonnes = **45584** × 1.2

= **54700.8 Tonnes**

CHAPTER-4

4.0 MINING:

a) Briefly describe the existing/proposed method for developing/working the deposit with all design parameters:

Existing Method of mining:

It is a fresh area. Therefore no mining/excavation of Soil Brick (Brick making by chimney Bhatta) was carried out.

c) Proposed method of mining:

It shall be open cast manual & semi-mechanized mine. The approach road from surface to bottom will be provided with 1 in 16 gradients. The length and depth of the road will depend on the depth of excavation.

For transportation of casted bricks from proposed site to kiln, one wheel wooden cart will be utilized.

Preparation of Kuchcha Bricks:

Pasar: The place where Brick Chimney Bhatta is mixed with water moulding.

Mould: Wooden/Iron mould of average 9” x 4.5” x 3” Size is used for making the Kuchcha brick. Prepared clay will be poured in the mould and pressed manually, than mould will be removed leaving kuchcha brick.

Sun Drying: The kuchcha brick will be allowed for sun drying. There is an important step for making the adobe (Kuchchi brick). The final moisture content of the adope brick remains around 10% to 15%.

d) Indicate quantum of development & tonnage & grade of production expected pit wide as in table below:

Year	**ROM Soil Brick (Brick making by chimney Bhatta) (cum)**
1st	9116.8
2nd	9116.8
3rd	9116.8
4th	9116.8
5th	9116.8
Total	**45584**

d) Development proposed for the Project of the Plan:

Ist Year:

From the proposed mine site 9116.8 cum per annum earth clay will be excavated from the area for achieving a production of 91168000 bricks.

IInd Year:

From the proposed mine site 9116.8 cum per annum earth clay will be excavated from the area for achieving a production of 91168000 bricks.

IIIrd Year:

From the proposed mine site 9116.8 cum per annum earth clay will be excavated from the area for achieving a production of 91168000 bricks.

VIth Year:

From the proposed mine site 9116.8 cum per annum earth clay will be excavated from the area for achieving a production of 91168000 bricks.

Vth Year:

From the proposed mine site 9116.8 cum per annum earth clay will be excavated from the area for achieving a production of 91168000 bricks.

CONCEPTUAL PLAN:

a) **Plan period/Conceptual plan:** Conceptual mining plan is necessary to know the ultimate limit if the pit crust when whole reserves will be exhausted. It is also necessary to select the sites for soil stack, the site service, plantation etc. in such a place that this site should not get any disturbance during the life of the mine. Considering the aforesaid aspects the conceptual mining plan is proposed a follows:

b) The Final slope Angle Adopted

Considering final slope angle will be 45^0

c) Ultimate Capacity of Dumps

The dumps are not required as whole earth is useable.

d) Stabilization of Dumps

There will no waste generate in Soil Brick (Brick making by chimney Bhatta) mining. The excavated Soil Brick (Brick making by chimney Bhatta) will be used for filling leveling of land of the second party which is a low land.

e) Ultimate Pit Limit

It is as Soil Brick (Brick making by chimney Bhatta) mining Project. The 20% of total area (including all Gatas) has been considered as a barrier zone and remaining 80% of total Gata has been considered as a mineable zone. The Mineable area is 3.5064ha & barrier zone is 0.8766ha. Thus total lease area 4.383ha.

Reclamation/Rehabilitation:

Not applicable

4.6 Post Mining Land use:

Not applicable

II Dump area:

Not applicable

(f) Open Cast Mines:

i) Describe briefly giving salient features of the mode of working (mechanised, semi mechanised, manual):

The excavation of Soil Brick (Brick making by chimney Bhatta) on the project will be done manually as well as semi-mechanized. Excavation will be carried out only during the day time.

ii) Describe briefly the layout of mine working, layout mine faces & sites for disposal of overburden/waste.

Not applicable.

iii) Extent of mechanization: Mining shall be carried out manually with conventional hand tools. No mining machineries shall be required Soil Brick (Brick making by chimney Bhatta) excavation.

CHAPTER-5 & 6

5.0 BLASTING:

Mining shall be carried out manually with conventional hand tools as well as with deployment of an excavator & its deployment with on hire basis as & when required.

6.0 MINE DRAINAGE:

General ground level in nearby area of project is 95mRL whereas level of ground water table is around 10meters below from general ground level thus ground water table in the area is at around 85mRL. This level fluctuates around 3 meters in dry and wet season. Proposed deepest working will be around 2 meter deep. Thus ground water table will not be affected adversely.

CHAPTER-7 & 8

7.0 STACKING OF MINERAL REJECTS AND DISPOSAL OF WASTE:

a) Indicate briefly the nature and quantity of top Soil Brick (Brick making by chimney Bhatta), overburden/waste and mineral rejects likely to be generated during the plan period:

The Top soil to be generated shall be stacked separately with in barrier zone. Below top soil all quantities of soil to be generated shall be used for making brick.

b) Land chosen for disposal of waste with proposed justification.

The Top soil to be generated shall be stacked separately with in barrier zone.

c) Attach a note indicating the manner of disposal, and configuration, sequence of buildup of dumps along with the proposals for the stacking of sub-grade ore, to be indicated item wise.

The top soil will be stacked with in barrier zone and all precautions shall be adopted for its stabilization.

8.0 USE OF MINERAL:

Soil Brick (Brick making by chimney Bhatta) would be used for Building, Houses etc. Bricks are made from clay minerals when wet the clay can be shaped & than fired to make floor, walls, & roof tiles as well as house bricks.

CHAPTER-9

9.0 OTHER:

9a) Site Services

The following site services will be provided:

i) Office
ii) Drinking water shed
iii) Rest shelter
iv) First aid Centre
v) Store

9b) Employment Potential

The mine manager cum mining engineer should a graduate mining engineer holding at least second class manager's certificate.

Thus category-wise employments will be as below:

Mines manager/mining engineer (part time)	:	1
Skilled:		
Supervisor	:	1
Un-skilled:		
Piece rated workers	:	29
Total:		**31**

CHAPTER-10

10.0 MINERAL PROCESSING:

a) If processing / beneficiation of the ore or minerals mined is planned to be conducted on site or adjacent to the extraction area, briefly describe the nature of the processing/ beneficiation. This should indicate size and grade of feed material and concentrate (finished marketable product).

The entire lease area consists of Soil Brick (Brick making by chimney Bhatta). During plan period 9116.8 cum of Soil (Brick making by chimney Bhatta) shall be generated and all quantities shall be used for making Brick.

b) Explain the disposal method for tailing or waste from the processing plant (quantity and quality of taqilings proposed to be discharged, size and capacity of tailing pond, toxic effect of such tailing, if any, with process adopted to neutralise any such effect before their disposal and dealing of excess water from the tailing dam)

As stated above that no beneficiation is required therefore no tailing or waste disposal from processing plant will be undertaken.

c) A flow sheet or schematic diagram of the processing procedure should be attached.

No beneficiation studies will be carried out therefore no flow sheet of processing process is attached.

d) Specify quantity and type of chemicals to be used in the processing plant.

No chemicals will require.

e) Specify quantity and type of chemicals to be stored on site / plant.

No chemical will be stored on the site / plant.

f) Indicate quantity (cum. per day) of water required for mining and processing and sources of supply or water. Disposal of water and extent of recycling.

No water is required for mining and processing hence no disposal of water and extent for recycling is required.

CHAPTER-11

11. ENVIRONMENTAL MANAGEMENT PLAN:

(a) Attach a note on the status of base line information with regard to the following:

(I) Land Use:

The existing land use of the area is almost hundred percent waste lands.

The existing land use is given in tabular form:

Sr. No.	Land use	Agriculture land (ha)	Forest Land (ha)	Waste land (ha)	Grazing Land (ha)
1	Mining pits Quarry	-	-	-	-
2	Approach Road	-	-	-	-
3	Water tank	-	-	-	-
4	Human Settlement	-	-	-	-
5	Balance undisturbed land	4.383	-	-	-
	Total	**4.383**	-	-	-

(II) Water Regime:

There is no perennial water body in the area. Water table loses its significance in this region due to depth. The depth of water table is about 10m. below general ground level.

(III) Climatic Conditions:

The district lies in the plains of the State, and hence its climatic conditions are quite similar to the average climatic condition of the plains. Hot to very hot in summers, cold to quite cold during winters and humid to very humid and sultry during rainy season. Most of the rain occurs from June to September and often in November to January. The winter sets in November and continues till February end.

(IV) Public building, places of worship and monuments:

None of the above important features are within the lease hold or in close proximity of lease hold.

(V) Does area (partly or fully) falls under notified area under water (Prevention & control of Pollution) Act 1974:

The lease hold has not been notified under water (Prevention & control of pollution) Act 1974.

(b) Attach an Environmental impact Assessment statement describing the impact of mining and beneficiation on the following over the plan period.

Not applicable.

(c) Attach an Environmental Management Plant supported by appropriate plans and sections dealing the time bound action proposed to be taken with sequence and timing in the following areas (or diagram should be added).

- **Temporary storage and utilization top Soil Brick (Brick making by chimney Bhatta):**

  Therefore no proposal has been given for its temporary storage.

  Programme of afforestation year wise for the initial plan period indicating number of plants with name of species, afforested under different areas in Ha.
  Programme of Afforestation:
  Not applicable.

4. **Stabilisation and vegetation of dumps along with interburden dumps management year wise for initial plan period:**

   The entire lease area is Soil Brick (Brick making by chimney Bhatta) cover an all quantities of Soil Brick (Brick making by chimney Bhatta) to be generated shall be used only for leveling and filling of land of the second party which is a low land.

5. **Measures to Control erosion/sedimentation of water courses:**

   No drainage of water course will be disturbed due to mining. The lease area consists of Soil Brick (Brick making by chimney Bhatta) cover and mined out pit shall be backfilled/reclaimed therefore there is no question arises for sedimentation of water courses.

6. **Treatment and disposal of water from mine:**

   It has already been mentioned that water table does not have any relevance in region plateau due to its great depth therefore treatment and disposal will not be concern in the mine.

7. **Measures for mining adverse effects on water regime:**

   It has already been stated that mining will not interfere with the surface and underground water however to take care of eventualities.

8. **Protective measures for ground vibration/air blast caused by blasting:**

   The soil shall be excavated manually with conventional hand tool & as well as with deployment of an excavator amount of movement of tractor trolleys. The impact on this aspect is negligible.

9. **Measure for protecting historical Monuments and for rehabilitation of human settlement likely to be disturbed due to mining activity:**

   No such feature exists within the lease area.

10. **Socioeconomic beneficiate out of mining:**

    The scale of operation is limited with 90% local employment. Hence some benefit to the local community will occur on this aspect. Besides the direct employment, indirect employment will include tractor owners, truck drivers, shop keepers dhaba walas etc.

1.0 PROGRESSIVE MINE CLOSURE PLAN

1. Introduction:

a) Name of Lessee/Applicant: **M/S PAWAN BRICK FIELD**

Prop.:- Shri Shailendra Verma S/o Shri Kashiram Verma

R/o- Vill.- Sabeerpur,Teh-Mankapur, Distt.-Gonda (U.P)

No.- Fax & email address facilities is available with lessee.

b) Status of Lessee: Individual Firm

c) Location: The lease hold falls in Village Laxmi Nagar Grint is approximately 55.0km in North West direction from Gonda. Babhnan Khodare-Gaura-Chawiki Road which is about 4.0Km towards North-East direction from Project site. Railway Station is at Babhnan & it is about 7.0Kms towards South West direction from Project site.. The location plan is enclosed as **Plate No. 1**

d) Extent of Lease area: **4.383Ha.**

e) Type of lease area: The land applied for mining lease agricultural land.

f) Land use Pattern: It fall under agricultural land. The existing land use pattern is given below:

Sr. No.	Land use	Agriculture land (ha)	Forest Land (ha)	Waste Land (ha)	Grazing Land (ha)
1	Mining pits Quarry	-	-	-	-
2	Approach Road	-	-	-	-
3	Water tank	-	-	-	-
4	Human Settlement	-	-	-	-
5	Chimney	-			
6	Balance undisturbed land	4.383	-	-	-
	Total	**4.383**	-	-	-

i) Method of mining and mineral processing:

It is a fresh area. Therefore no mining/excavation of Soil Brick (Brick making by chimney Bhatta) was carried out.

1.1 Reasons for Closure:

It is an existing mining lease presently no specific reasons have been observed for the closure of mining operation. The mining plan is being submitted as per MoEF& CC Notification No.-S.O.141 (E) Dated 15 Jan, 2016 & under Rule 34 of UP Minor Mineral Concession rule 1963.

1.2 Statutory Obligations:

No statutory obligations have been imposed by any Govt. agency.

1.3 Closure plan preparation:

a). Name and address of the Lessee/Applicant:
M/S PAWAN BRICK FIELD

Prop:- Shri Shailendra Verma S/o Shri Kashiram Verma

R/o- Vill.- Sabeerpur,Teh-Mankapur, Distt.-Gonda (U.P)

No telephone, Fax & email address facilities is available with lessee.

b). Name, address & Registration No of R.Q.P.:

Mr. PankajPande

SahajSahyog Consultants (P) Ltd.,

B-1/21, Sec.-B, Aliganj, Lucknow-24

Phone No. 9415102339, 0522-4011565(O)

Registration No. RQP/DDN/086/95A

Valid upto : 14.02.2021

c). Name of the executing agency:

The lessee himself shall execute the provisions of mine closure plan. Presently no decision has been taken in this regard to closure of mine. Therefore copy of resolution of the executing agency has not been given.

2.0 Mine Description:

2.1. Geology:

PHYSIOGRAPHY:

The proposed area is almost flat. No seasonal & perennial drainage exists within the area. The altitude of the area is about 95mRL. Brick Earth is exposed in the area applied for proposed project. No other rock is exposed. No habitation located in the proposed area. No PWD road passes through the area. The topography of lease area is shown in **Plate No. 3.**

2.2. Mining Method:

It shall be open cast manual & semi-mechanized mine. The approach road from surface to bottom will be provided with 1 in 16 gradients. The length and depth of the road will depend on the depth of excavation.

2.3. Mineral Beneficiation:

No mineral beneficiation will be under taken for next Five years. The Soil produced from mine shall be transported to chimney for making bricks.

3.0 Review of implementation of mining plan / scheme of mining including five years progressive closure plan up to the final closure of mine:

Mining plan of the area under reference is yet to be approved; it is therefore premature to make any comments about review of implementation.

4.0 Closure Plan:

4.1 Mined out land:

The mining has been proposed from top to downward. Mining faces will advance from west to east direction.

4.2. Water Quality Management:

No surface or ground water bodies exist within the area. The mining is being carried out in upper levels. The problem of ground water pumping will not be there. Only rain water will have to be channelised in such a way it does not carry suspension to natural streams. However water quality monitoring shall be carried out periodically from MP Pollution Control Board or from any NABL laboratory.

However, proposal have been furnished for the protection of siltation, sedimentation etc. during heavy showers. Before commencement of mining operation the mined out area shall be backfilled/reclaimed and put is use for agriculture land. Therefore no water shall be accumulated in the pit.

Hydro geological Study: In general, the ground water occurs at depth of 10m below the ground level. Water table aquifer in the area is unconfined & is controlled by the joints, fractures and shear zone. Hydro geological studies of the area has not been carried out.

The water balance Chart: The mining operations do not require water, except watering the planted areas and for the workforce employed at the mine site.

For these purpose approximately 3 KL water/ day will be consumed at the area.

4.3 Air Quality Management:

Though, no air sample for ascertaining the air quality has been drawn. But it can be well understood that air quality of the region can be considered normal, because the region not consist any industry to pollute the air. However air monitoring shall be carried out once in a season during dry spell of months to assess the air quality with in the area. It has already been explained that mining shall be carried out manually with limited account of drilling and blasting. One of the most crucial elements for air pollution is vehicular transport. Due limited movement tippers, air quality will not undergo any significant change. It is proposal that water sprinkling on approach road shall be carried out two times a day during dry spell of months to suppress the dust during vehicular movement.

No chemical or toxic effluents are made/discharged in the area during mining operations. Therefore, question of air pollution does not arise.

4.4 Waste Management:

No waste shall be generated during course of mining. All quantities of soil shall be used for making bricks therefore no such proposal has been envisaged for waste dump management.

4.5 Top Soil Management:

All quantities of top soil to be generated shall be used for making bricks. Therefore no proposal of top soil management has been envisaged.

4.6 Tailing Dam Management:

Neither any chemical or toxic effluents will be discharged from the mine nor will any toxic substances be utilized in the mining or allied activities. Therefore there is no question of tailing dam management.

4.7. Infrastructure:

No infrastructure facilities like aerial ropeway, conveyor belts, power line, water treatment plant, transport& water supply sources are present with in the lease area. Therefore no utilization & their physical stability & maintenance will be required. Also no infrastructure facilities like electric transmission, telephone line, water pipe line, sewer line, gas pipe line, electrical cables, culvert, bridges are not existing with in the applied area. So question does not arise for their restoration. The approach road passed with in the lease area & lessee shall maintain it during PMCP period.

4.8. Disposal of Mining Machinery:

It will be an opencast manual mine without adoption of drilling & blasting. The broken pieces of tools will be disposed off. This is existing mine and mining is being carried out without deployment of any kind of machineries. Therefore their is no question of disposal of mining machineries at this stage.

4.9. Safety and Security:

The haul roads will be provided to open the mining faces. The maintenance of haul roads will be under taken periodically. Following provisions will be made.

i) Helmets to all workers will be provided.

ii) Disposable respirators, will be provided to all those working in dusty area where dust concentration is very height.

iii) One pair of safety shoes will be provided to all the workers.

iv) Safety belts will be provided to all those working at height.

v) Warming boards & working hours shall be displaced at conspicuous places.

vi) There will be one opening entry of mine which will have a manual gate & barricade under supervision of one chowkidar.

An experience permit manager/Mines Foreman will be employed for the supervision of mining operation.

vii) The mining area shall be property fenced to avoid any inadvertent entry of any live stock.

During opencast working, all the precautions are to be observed as per Reg. 106 of MMR, 1961 for safety and security.

4.10. Disaster Management and Risk Assessment:

Maximum depth of working has been concentrated 2.5m (average) and after reaching maximum depth the mined out pit shall be backfilled/reclaimed. No causes of disaster have been apprehended during mining activity, but possibility of disaster can not be ruled out. Therefore all the statutory precautions shall be undertaken into account as per mines Act. 1952, mines rules 1955, MMR 1961 and MCDR 1988.

Disaster Management plan is a comprehensive and structured system for ensuring the prevention of risks / disasters involved. The principles used to priorities work are as follows.

- Priority must be given to human safety and health, where it is seriously threatened.
- Acute problems must be addressed before long-term problems.
- Measures affecting a large population must be given priority over measures benefiting a smaller number of people.

4.11 Care and Maintenance during Temporary Discontinuance:

At the time of temporary discontinuance of mine, notice the office of Directorate General of Mine Safety as well to District administration. All precautionary steps shall be taken into account in respect of care & maintenance.

5.0 Economic Repercussions of Closure of mine and manpower retrenchments:

5.1. About 10 local residents were employed in the mine. The present occupation is mostly forming. There is not going to be affected due to their employment in the mine. They can change over to their present jobs after cessation of the mining operation.

5.2. As per industrial & disputes (Amendments) Act 1976 & also based on further amendments in the year 1984, the following issued are to be considered while closure of any establishment. The provisions of this act are applicable to all industrial establishments employing 100 or more workmen. Therefore the same will be applicable to the mine when more than 100 person are employed.

Total numbers of persons employed in the mine shall be 109, therefore no retrenchment/ compensation is envisaged.

5.3. Not applicable

5.4. Mining is not going to effect.

5.5. Mine site does not process facilities & infrastructure (i.e. power, water supply etc. on the expectation of society. Besides it mine site is not a centre for community development. Therefore the envisaged repercussions on the expectations of society are out of question.

The repercussion seen due to mine closure is that employees may became unemployed. However there basic occupation will not effect due to mining & hence the question of repercussion not expected at this stage.

6.0 Certificate:

Given separately & enclosed.

7.0 Plan & Sections:

All the plans are enclosed.

Date:

Place: Lucknow