

जिला खनन कार्यालय, शेखपुरा

पत्रांक 262 / एम0, शेखपुरा, दिनांक 11/04/25

सेवा में,

मेसर्स HERO ईट उद्योग,
प्रो०— श्री घनश्याम कुमार,
S/O- शालिग्राम सिंह
ग्राम+पो०+थाना— मेहुस
जिला— शेखपुरा।

विषय:— खनन योजना (Mining Plan) अनुमोदन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि शेखपुरा जिलान्तर्गत मेहुस थाना, घाटकुसुम्मा अंचल के मौजा/ग्राम— सहरा बटौरा, खाता सं०— 32, 124 खेसरा नं०— 1918, 523 रकबा 1.489 हेक्टेयर में लघु खनिज साधारण ईट मिट्टी के खनन हेतु प्रस्तुत खनन योजना का अनुमोदन संयुक्त बिहार पटना के पत्रांक—4156/एम0 पटना दिनांक— 27.12.16 के आलोक में निम्न शर्तों के साथ अनुमोदन किया जा रहा है।

1. खनन योजना का अनुमोदन 5038 घन मी० प्रति वर्ष में साधारण ईट मिट्टी के उत्पादन हेतु अनुमान्य किया गया है।
2. खनन कार्य से पूर्व सक्षम प्राधिकार से पर्यावरणीय स्वीकृति की प्राप्ति एवं संबंधित जिला खनन कार्यालय में खनन रॉयल्टी, मालिकाना शुल्क एवं अन्य देय राशि जमा कर खनन की अनुमति संबंधी अनुज्ञापत्र लेना अनिवार्य है।
3. साधारण ईट मिट्टी खनन की गहराई सतह से 2.0 मी० से अधिक नहीं होगा।
4. खनन कार्य ग्राउन्ड वाटर लेवल से कम से कम 2.0 मी० उपर तक ही सीमित रखा जाएगा।
5. प्रस्तावित उत्खनन की गहराई के कम से कम आधे के बराबर चौड़ाई रखने वाले सटे मैदानों की सीमा से पटरी छोड़ दी जाएगी।
6. ईट निर्माण, पथ निर्माण, तटबंध निर्माण आदि के प्रयोजनार्थ साधारण ईट मिट्टी के खनन/उत्खनन से संबंधित क्रियाकलाप में विस्फोटक का प्रयोग नहीं होगा।
7. खनन/उत्खनन संबंधी क्रिया-कलाप कार्य क्षेत्र के सामान्य जल निकासी के प्रतिरूप (पैटर्न) को परिवर्तित नहीं करेगा।
8. खोदे गए/उत्खनित गड्ढा (पिट) को परियोजना प्रस्तावक द्वारा उपयोगी प्रयोजन (प्रयोजनों) के लिए पुनः स्थापित किया जाएगा।
9. खोदे गए/उत्खनित गड्ढा के चारों ओर समुचित घेराबंदी कर दी जाएगी, ताकि किसी दुर्घटना से बचा जा सके।

10. ढुलाई के दौरान खोदी गई/उत्खनित मिट्टी के फैलने से धूल उत्सर्जन को रोकने के लिए उपाय किए जाएंगे।
11. मिट्टी के खनन/उत्खनन के कारण सृजित जल निकायों में रोगवाहकों (वेक्टर) के प्रजनन के कारण स्वास्थ्य खतरों के विरुद्ध सुरक्षा मानक अपनाये जाएंगे।
12. कामगारों/मजदूरों को पेय जल और सफाई संबंधी सुविधाएँ प्रदान की जाएंगी।
13. किसी उत्खनन क्षेत्र की परिधि से किसी असैनिक संरचना की दूरी कम से कम 15 मीटर रखी जाएगी।
14. राष्ट्रीय पार्कों और वन्य प्राणी अभ्यारण्य की सीमा के 1 किलोमीटर के अन्दर उत्खनन के क्षेत्र के मामले में साधारण मिट्टी के खनन/उत्खनन की अनुमति नहीं दी जाएगी।
15. खनन योजना में खनन कार्य बेंच बनाकर किया जाएगा जिसकी अधिकतम ऊँचाई 0.75 मी० एवं चौड़ाई कम से कम 3.0 मी० होनी चाहिए।
16. खनन कार्य के दौरान निकाले गये टॉप स्वायल को व्यवस्थित रूप से एकत्रित कर रखा जाएगा, जिसे खनन कार्य समाप्त होने के उपरान्त उसी क्षेत्र में फैला दिया जाएगा।
17. खनन योजना में वर्णित भूमि के स्वामिस्व तथा भूस्वामियों की सहमती से संबंधित अभिलेखों की पुष्टि करा लिया जाना अपेक्षित होगा।
18. खनन कार्य मानसून के समय में नहीं की जाएगी।
19. भविष्य में किसी प्रकार की कोई भी गलती खनन योजना अथवा कार्य में पाई जाएगी तो खनन योजना स्वतः निरस्त माना जाएगा।


सहायक निदेशक,
 खान एवं भूतत्व, शेखपुरा।
11/04/25

Quarry Plan, EMP & Quarry Closure Plan

(Submitted under of Bihar Minor Mineral Concession (Amendment) Rule 2019)
OF

Sahra Batora Brick Earthclay Quarry Mine

Mouza - Sahra Batora, Anchal — Ghat Kusumbha,
District - Sheikhpura, State — Bihar

Khasra No. 1918, 523, 523 & Khata No- 32, 124, 124
Lease Area — 1.489 Hect. Or 3.680 Acre (Non-Forest — 1.489 Hect.)
Lease Period - 5 Years
Plan Period - 5 Years



Category- B2
APPLICANT

M/s Hero It Udyog
MR. Ghanshyam Kumar
Mouza - Mehush,
Anchal - Mehush,
District- Sheikhpura (Bihar)
Pin no. — 811102

PREPARED BY

Dr. Ashish Sharma

E-mail- econextconsultants@gmail.com, Mob. No- 9147862448925

Registration No. RQP 9

APPROVED

Vide District Mining Office, Sheikhp
Letter No. 262 M. dt. 11/04/25

सहायक निदेशक

खान एवं पत्तल, शेखपुरा

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Quarry Plan
Sahra Batora Brick Earthclay Quarry Mine, Area: 1.489 Hect.
of M/s Hero It Udyog, Sheikhpura, Bihar

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INDEX OF ATTACHED DOCUMENTS

1	Letter For Submission of Mine Plan
2	Noc of Land Owner
3	Patwari Naksha and Khasra, B1, P11
4	Copy of lease Order
5	Copy of Lease Deed

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Quarry Plan
Sahra Batura Brick Earthclay Quarry Mine, Area: 1.489 Hect.
of M/s Hero It Udyog, Sheikhpura, Bihar

LIST OF PLATES

S. No.	PLATE DETAILS	PLATE NO.	SCALE
1	Cadastral Map	I	1:4000
2	Key / Location Map	II	1:50000
3	Google Map of the Area	III	-
4	Surface Geological Plan / Geological Section	IV	1:1000
5	Yearly Working Plan	V	1:1000
6	PMCP	VI	1:1000
7	Conceptual Mine Plan	VII	1:1000
8	Pollution Mitigation Measures Plan	VIII	1:1000
9	Cross Section Plan	IX	1:1000

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Quarry Plan
Sahra Banora Brick Earthclay Quarry Mine, Area: 1.489 Hect.
of M/s Hero It Udyog, Sheikhpura, Bihar

CHAPTER - 1
GENERAL

(a)	Name of Applicant	M/s Hero It Udyog
	Mouza	Mehush
	Tehsil	Mehush
	District	Sheikhpura
	State	Bihar
	PIN code	811102
(b)	Status of the Applicant	Private Individual
(c)	Mineral(s) which are occurring in area and which the applicant intends to Mine	Brick Earthclay
(d)	Period for which quarry lease is to be granted	5 Years ()
(e)	Name and address of the Recognized Qualified Person(RQP) preparing the Quarry plan	Dr. Ashish Sharma Address- Hasib Villa, Naya Tola Line Bazar Purnea, Bihar Cell: 9753385659, +91-7992448925 Email: ashish_78617@rediffmail.com
(f)	Registration No. of Recognized Qualified Person or authorization of the state government	Registration No. RQP
(g)	Name of prospecting agency	-
(h)	Whether the area is prospected by the Directorate Geology and Mining. If yes then enclose a certified copy of prospecting report of DGM (P.L. Report may procedure as per rule).	-

Signature of lessee

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CHAPTER - 2

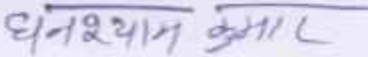
LOCATION

A. Detail of the Lease Area :

State	Bihar				
District	Sheikhpura				
Taluka	Ghat Kusumbha				
Village	Sahra Batora				
Khasra No.	1918, 523, 523 & Khata No- 32, 124, 124				
Lease area (hectares)	1.489 ⁷ Hect.				
Compartment number if the area is recorded to be in forest (please specify whether protected, reserve etc.)	Not Applicable				
Ownership/Occupancy	1918, 523, 523 & Khata No- 32, 124, 124		Private Land		
Existence of public Road/ railway line, if any, nearby and approximate distance	National Highway		NH 33 is 10.0 km at West		
	State Highway		Road at 10.0 km. West		
	Public Road		200 m in East		
	Railway Line		10.0 Km in South		
Toposheet No with Latitude/ Longitude		Toposheet No.			
Boundry Point	Latitude	Longitude	Boundry Point	Latitude	Longitude
A	85° 53' 33.769" E	25° 13' 45.513" N	E	85° 53' 28.047" E	25° 13' 49.799" N
B	85° 53' 37.000" E	25° 13' 45.313" N	F	85° 53' 28.141" E	25° 13' 51.943" N
C	85° 53' 36.742" E	25° 13' 41.126" N	G	85° 53' 29.666" E	25° 13' 51.785" N
D	85° 53' 33.586" E	25° 13' 40.674" N	H	85° 53' 29.525" E	25° 13' 49.810" N
Land Use Pattern (Forest, agricultural, grazing, barren, etc.)		(i) Forest	Forest (specify)	Area (ha)- Nil	
		(ii) Non -forest Waste Land-	(i) Private Land	1.489 Hect. Area	
			(ii) Grazing land,	Nil	
			(iii) Agriculture	Nil	
			(iv) barren land	Nil	
			(v) others (specify)	Nil	

The Khasra - wise detail of the applied lease area is as under:

Khasra No./ Compartment No.	Area		Type of land
	(Ha)	(Acres)	
1918, 523, 523 & Khata No- 32, 124, 124	1.489	3.68	Private Land


 Signature of lessee
 THIS HERO ITUDYOG
 Proprietor

Dr. Ashish Shamra Registration No. RQP


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8. Attach a map showing boundaries of the quarry lease, adjoining area, roadways, railways, natural drainage system and other surface features, if any. It is preferred that the area be marked on a Survey of India topo sheet or a cadastral map or forest map as the case may be. However if none of these are available, the area should be marked on a plan prepared especially for the purpose on a scale of 1: 50000 linking it with any important reference point available in and around the area.

Cadastral map on scale of 1:4000 and Key plan with demarcated area in Survey of India toposheet on scale 1:50,000 and Google map is enclosed as Plate No. 1, Plate No. 2 and Plate No. - 3.

Distance from:

S. No.	Permanent Features	Distance from the Area
1.	National Highway No.	NH 33 is 10.0 km at West
2.	State Highway No.	Road at 10.0 km. West
3.	PMGSY/ CMGSY	None
4.	Other path way	-
5.	Any water body	River at 5.0 km
6.	Any residential educational area	Residential Area - Village at 1.0 km Educational Area -1.0 Km
7.	Any kind of bridge	0
8.	Hospital/ Historical place	Hospital 15.0 Km. West Historical - No

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Proprietor

CHAPTER-3
GEOLOGY AND EXPLORATION

- A. Briefly describe the general topography explaining whether it is a Plain land or hilly area and

Topography of the Area:-

The topography of the applied area is Flat. The Brick Earth/clay is exposed throughout the applied area. The general slope is towards North. Altitude of the area within lease area at higher side at North part of lease area is 44m AMSL while the lower side at South part of lease area is 43m AMSL. The applied area is devoid of any vegetation.

Geology :

Regional Geological Set Up:-

Geologically, it represents the extreme northern front of Indian sub-continent. These include (i) the belt of Himalayan foothills in the northern fringe of Paschim Champaran (ii) the vast Ganga Plains, (iii) the Vindhyan (Kaimur) Plateau extending into Rohtas region, (iv) the sporadic and small Gondwana basin outliers in Banka district, (v) the Satpura Range extending into large part of the area North of Chotanagpur Plateau, (vi)

the parts of Bihar Mica belt in Nawada, Jamui and Banka districts and (vii) the Granite Gneissic complex of Chotanagpur plateau. Nearly two third of Bihar is under cover of Ganga basin composed of alluvium and masks the nature of basement rocks.

Mahananda River is one of the prime tributaries of the Ganga River in the eastern part of India. The origin of this mighty Mahananda River is from the extreme north of West Bengal from the stunning hills of Darjeeling. Originating from this beautiful hill station the Mahananda River, then flows southwards through the fertile agricultural area of Bihar and enters West Bengal flowing past English Bazaar. From Darjeeling to Bihar and after entering through Uttar Dinajpur district in West Bengal, Mahananda River, then flows in the southeast direction in to Bangladesh, near Tentulia in Panchagarh District.

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Signature of lessee

MIS 16001100YOG

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The stratigraphic sequence of various geological units with their respective rock types are described below

LITHOSTRATIGRAPHY OF BIHAR

AGE	Geology	Occurrences
Quaternary	Alluvial Deposits (Sand, Clay, Silt, Fragments)	North.Bihar Plain & Central Bihar Plain
Tertiary	Sand Stones & Clay Stones	North Champaran Hills
Gondwana	Coal Measures, Forming a series of Small outlier basins	Banka District
Vindhya	Sandstones, Shales, Limestones, etc.	Parts of Bahbhua and Rohtas dist
Satpura	Schist, Phyllite, Quartzite	Part of Aurangabad, Gaya, Nawada, Nalanda,Sheikhpura and Munger District
Proterozoic	Mica Schist, amphibolites, quartzite, granite, dolerite and pegmatite	Nawada, Jamui and Banka
Archaean	Gneisses, Granites, Schists, Phyllites, quartzite, amphibolites &	Part of Aurangabad, Gaya, Nawada, Jamui, Banka and Bhagalpur

एन २५११ कुमल
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MISHERO IT 10/03/20

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Local Geological Set Up:-

The applied area forms a part of the recent formation having alluvial soil deposit which is Quaternary Alluvial Deposit. The sequence of various formations is as follows:-

Recent	Alluvial	Alluvial Soil
--------	----------	---------------

The topography of the applied area is Flat Land. The general slope is towards North. The applied area is devoid of any vegetation.

(The above data regarding Geology has been adopted from publication of Geological Survey of India,

Geological plan on 1:1,000 / 1:2,000 scale with 1-3 m contour intervals, showing general topography and geology of the area enclosed as Plate No. - 4.

The area showing a nature and extent of the mineral body

The whole area comprises of mineral clay deposit.

- B. Describe briefly prospecting / exploration work done to date viz. geological mapping with the
- Not Applicable

Details of samples analysis indicating type of sample:-

- Not Applicable

Grade of Mineral:

- Not Applicable

Nature and Extent of Mineral Body:-

- Not Applicable

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CHAPTER - 4 RESERVES

GEOLOGICAL RESERVE

The area is almost Flat and developed quarry land. The formula adopted for calculation of reserve is graphical method and thus mine specification arrived through graphical method are as under :-

S.n.	Particular	Details
1	Lease area	1.480 Hectare (hect.)
2	Area already excavated (1)	0.00 sqm.
3	Depth of mine at above excavated area	0.00 Meter (m)
4	Area already excavated (2)	0.00 sqm.
5	Depth of mine at above excavated area	- m
6	Balance Fresh area in the mine (3)	14800.00 sqm.
7	Proposed depth of excavation from surface level	2.00 m
8	Outer Length of mine boundary	669.90 m
9	Inner Length of mine Boundary	294.34 m
10	Average Length of Mine Boundary	482.12 m
11	Width of Mine Boundary	1.00 m
12	Total Area covered in Mine Boundary	482.12 sqm.
13	Area for Chimey/ Killen	NIL sqm.
14	Area for Storage	NIL sqm.

$\text{Area (m}^2\text{)} \times \text{Average height} = \text{Volume (m}^3\text{)} \times \text{specific gravity} = \text{Tonnage}$
 $\text{Area (m}^2\text{)} \times \text{depth} = \text{Volume (m}^3\text{)} \times \text{specific gravity} = \text{Tonnage}$

A =	14800.0 m ²	X	2.0 m	=	29600.00 m ³
A+B+C =	Total			=	29600.00 m ³

Total geological reserve comes to 29600 cum

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MINERAL BLOCKAGE

- a) Reserve Blocked In Mine Limit - Blockage in barrier (1 meter of berm left due to compliance of guidelines of MOEF): -

Area = Length x Width

$$\begin{array}{rclclcl} = & 482.12 \text{ m} & \times & 1.0 \text{ m} & = & 482.12 \text{ m}^2 \\ = & 482.12 \text{ m}^2 & \times & 2.0 \text{ m} & = & 964.24 \text{ m}^3 \end{array}$$

$$\text{Total reserve Blocked in mine boundary (a) = } 964.24 \text{ m}^3$$

$$\text{b) Reserve Blocked In Benches \& Slope Maintenance (b) = } 645.89 \text{ m}^3$$

c) Other Blockage

$$\text{i) Reserve blocked under Fix Chimney/Killen = } 0.00 \text{ m}^3$$

$$\text{Total Blocked Reserve (a + b + c) = } 1610.14 \text{ m}^3$$

MINEABLE RESERVE

Mineable Reserves = (Geological reserves - Blocked reserve)

$$= 29600.0 \text{ m}^3 - 1610.14 \text{ m}^3$$

$$= 27989.9 \text{ m}^3$$

RECOVERABLE RESERVE

Recoverable Reserve = (Mineable Reserves - 10% of Mineable Reserves)

$$= 27989.9 \text{ m}^3 - (27990 \text{ m}^3 \times 10\% = 2799)$$

$$= 25190.9 \text{ m}^3$$

$$\text{Total Recoverable reserves = } 25190.88 \text{ m}^3$$

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CHAPTER- 5
DEVELOPMENT AND PRODUCTION PROGRAMME

QUARRYING

(A) Method of Quarrying –

The mode of working will be open-cast manual method of mining. This method of mining is used for highest productivity and the lowest cost of any of the broadly used mining methods. During the mining operation the mine wastage will be removed separately and not mixed with the rejected bricks and stacked properly in the proposed place for reclamation purpose or sale only. In order to mitigate the norms stipulated in office memorandum of Government of India Ministry of Environment & Forests No. L-11011/47/2011-IA.II (M) dated: 24th June, 2013 a berm/ boundary of 1.0 meter will be left around 4 side (N, E, S, W) as barrier for afforestation. The excavation of brick earth activity will be restricted to a maximum depth of 2m below general ground level but shall be restricted to 2 m above the ground water table at the site. The proposed heights of working 1 bench of 1m. width x 1m height will be developed along with periphery of the mine for safety. Overall bench slope will be less than 45° with the horizontal. The Mining of clay will be carried out manually with the help of simple instrument like Gaity, Fawda, Tagadi etc. Produced clay will be shifted to stacking yard for production of Bricks.

Bench width along the progressive quarry mine phase will be maintained adequately considering the operational safety and ease of mining during mining operation.

(B) Brick Making Process :

Fix Chimney brick manufacturing process has to be adopted which requires open and flat land for clay molding, brick making process along with installation of fix chimney Killen of 33.0 meter height along with gravitational settling chamber.

Approx. 248.26 cum loose earth clay is required to make 1 lac numbers of brick.

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S. No.	Particulars	Detail
1	Number of brick	100000 no's
2	Weight of One Brick	3.00 Kg
3	Total Weight	300 MT

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Plate No. - 5 (Five year development and production plan) and Cross sections in plate no. 9.

(C) A tentative scheme of quarrying, annual program and plan for excavation from year to year for 5 years.

i) IN FIRST YEAR OF THIS PLAN PERIOD -

In this plan period area of production area will be 2863.58 sqm area. Quarry mine will be developed with bench of 1.00m height x 1.00 m width till RL of 42 m above MSL for getting required production of 5038.18 cum clay, for getting 2029391 numbers of raw bricks.

However after taking 5% of damage and subgrade production, 1927921 numbers of bricks will be produced as saleable bricks.

Bench width along the progressive quarry mine phase/advancement bench will be maintained adequately considering the operational safety during mining operation.

ii) IN SECOND YEAR OF THIS PLAN PERIOD -

In this plan period area of production area will be 2863.58 sqm area. Quarry mine will be developed with bench of 1.00m height x 1.00 m width till RL of 42 m above MSL for getting required production of 5038.18 cum clay, for getting 2029391 numbers of raw bricks.

However after taking 5% of damage and subgrade production, 1927921 numbers of bricks will be produced as saleable bricks.

iii) IN THIRD YEAR OF THIS PLAN PERIOD -

In this plan period area of production area will be 2863.58 sqm area. Quarry mine will be developed with bench of 1.00m height x 1.00 m width till RL of 42 m above MSL for getting required production of 5038.18 cum clay, for getting 2029391 numbers of raw bricks.

However after taking 5% of damage and subgrade production, 1927921 numbers of bricks will be produced as saleable bricks.

iv) IN FORTH YEAR OF THIS PLAN PERIOD -

In this plan period area of production area will be 2863.58 sqm area. Quarry mine will be developed with bench of 1.00m height x 1.00 m width till RL of 42 m above MSL for getting required production of 5038.18 cum clay, for getting 2029391 numbers of raw bricks.

However after taking 5% of damage and subgrade production, 1927921 numbers of bricks will be produced as saleable bricks.

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iv) IN FIFTH YEAR OF THIS PLAN PERIOD -

In this plan period area of production area will be 2863.58 sqm area. Quarry mine will be developed with bench of 1.00m height x 1.00 m width till RL of 42 m above MSL for getting required production of 5038.18 cum clay, for getting 2029391 numbers of raw bricks.

However after taking 5% of damage and subgrade production, 1927921 numbers of bricks will be produced as saleable bricks.

v) IN FIFTH YEAR OF THIS PLAN PERIOD - Not Applicable

Year wise 5 year's development and production plan and sections attached as Plates no. 5 & 9 Enclosed.

(D) A tentative scheme of quarrying, annual program and plan for excavation after five years-

vi) IN SIXTH YEAR OF THIS PLAN PERIOD - Not Applicable

vii) IN SEVENTH YEAR OF THIS PLAN PERIOD -Not Applicable

viii) IN EIGHTTH YEAR OF THIS PLAN PERIOD -Not Applicable

xi) IN NINETH YEAR OF THIS PLAN PERIOD - Not Applicable

x) IN TENTH YEAR OF THIS PLAN PERIOD -Not Applicable

Production Plan for First Five years

Yrs.	Bench	Soil Bench 1	Soil Bench 2	Mine Waste 10% (cum.)	Soil + Fly Ash = Clay Mix for Raw Brick (cum)	Strippin g Ratio	Gross Raw Brick Producti on (in Nos)	Rejecte d Bricks in Nos. (5%)	Saialbe Bricks Producti on in Nos.
1 st Year	Area of excavation(sqm) Av. bench Height (m) Volume (cum) Production (cum) O.B./Waste (cum) (10%) Av. Reduced level(m)	2863.6 1.0 2863.6 2577.2 286.4 43.0	2734.4 1.0 2734.4 2461.0 273.4 42.0	559.80	Clay = 5038.18	1: 0.11	2029391	101470	1927921
2 nd Year	Area of excavation(sqm) Av. bench Height (m) Volume (cum) Production (cum) O.B./Waste (cum) (10%) Av. Reduced level(m)	2863.6 1.0 2863.6 2577.2 286.4 43.0	2734.4 1.0 2734.4 2461.0 273.4 42.0	559.80	Clay = 5038.18	1: 0.11	2029391	101470	1927921

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3 rd Year	Area of excavation(sqm)	2863.6	2734.4	559.80	Clay = 5038.18	1: 0.11	2029391	101470	1927921
	Av. bench Height (m)	1.0	1.0						
	Volume (cum)	2863.6	2734.4						
	Production (cum)	2577.2	2461.0						
	O.B./Waste (cum) (10%)	286.4	273.4						
	Av. Reduced level(m)	43.0	42.0						
4 th Year	Area of excavation(sqm)	2863.6	2734.4	559.80	Clay = 5038.18	1: 0.11	2029391	101470	1927921
	Av. bench Height (m)	1.0	1.0						
	Volume (cum)	2577.2	2461.0						
	Production (cum)	286.4	273.4						
	O.B./Waste (cum) (10%)	286.4	285.4						
	Av. Reduced level(m)	43.0	42.0						
5 th Year	Area of excavation (sqm)	2863.6	2734.4	559.80	Clay = 5038.18	1: 0.11	2029391	101470	1927921
	Av. bench Height (m)	1.0	1.0						
	Volume (cum)	2863.6	2734.4						
	Production (cum)	2577.2	2461.0						
	O.B./Waste (cum) (10%)	286.4	273.4						
	Av. Reduced level(m)	43.0	42.0						

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Production Plan for Second Five years - Not Applicable.

Minable reserves and anticipated life of the quarry:

A)	Estimated recoverable reserves	25190.88 cum.
B)	Average rate of production per year during Five year plan	5038.18 cum. of clay or 2029391 nos. of raw bricks
C)	Expected rate of production After five year plan	NIL
D)	Sanctioned lease period	5 years
E)	Thus anticipated life of the quarry	About 5 years. (Up to 2m of mine depth from existing level)

(D) Conceptual Quarry plan:

Exploration: Nil

Drilling: Nil

Dumping of Waste materials:

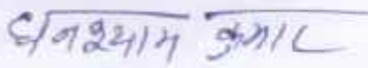
Rejected/Broken, Sub Grade Bricks and Waste

In the brick manufacturing process some broken/ rejected bricks may arises. Moreover, ash gets generated due to burning of coal. These two items requires their due management. Quantity of generation of broken/rejected bricks and its manner of management has explained below-

Computation of generation of broken/rejected bricks -

S.N.	Particulars	Values
1	Ratio of Rejected Bricks	5% of Produced Raw Bricks
2	Average Weight of 1 Bricks	3.00 Kg
3	Generation of Rejected Bricks from 1 lac of raw brick	15 MT per lac of raw brick

The details of year wise OB / Waste generation is given in the table given below:


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Year	Mine Waste in CUM (10% of Clay Excavation)	Rejected Bricks in MT (5% of Brick Production)
1st Year	559.80	304.41
2nd Year	559.80	304.41
3rd Year	559.80	304.41
4th Year	559.80	304.41
5th Year	559.80	304.41
Total	2798.99	1522.05

Conceptual Plan annexed as Plate No. - 7

Non-saleable rejected or broken bricks, generated during operations have to be stored separately in an open ground and will be disposed by using it to create haul roads or for filling of pits at or around the proposed lease land.

Afforestation:

The following table describes the area proposed for quarrying as a part of the Conceptual Quarry Plan (balance lease period of 5 Years)-

Particulars	Area required in hect. During		Total Area Utilized
	First Five Year	Second Five Year	
Area under Mining	1.432	-	1.432
Area under Statutory Boundary	0.048	-	0.048
Dumping (soil)	0.048	-	0.048
Afforestation	0.048	-	0.048
Area under Storage	-	-	-
Area under Fix Chimney Killen	-	-	-

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Open-cast Quarrying

Loading: Loading will be done manually.

S. No.	Machine	Details					
		Type	No 's	Capacity	Make	Motive Power	H.P.
1	<u>Haulage and Transporting</u>	Tractors	4	4.5	Mahindra	Diesel	58
2	<u>Miscellaneous:</u>	Water Tanker with water sprinkler	1	2000 ltr	Mahindra	Diesel	95
		Dewatering pumps	1	100 GPM	100 GPM	Diesel & Electric	10

(E) In the case of Quarry by machinery than the detail of machinery to be deployed.

Nil

(F) In case of manual quarry then average daily number of man power to be deployed (number, capacity etc.)

Skilled labours, taking standard O.M.S. to be one the strength of labour for 250 nos. of bricks production per day and working for 240 days a year, 34 labours per day will be required.

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(G) Type and capacity of processing unit if established or proposed in lease area.

Fix Chimney brick manufacturing process has to be adopted which requires open and flat land for clay molding, brick making process along with fix chimney of 33 meter height.

(H) BLASTING : NOT APPLICABLE

(I) COAL REQUIREMENT :

Fixed Chimney Plant requires burning of raw bricks in Killen which requires fuel. Fuel can be used for burning wood, agriculture wastage or coal. It is feasible to burn coal as wood & agriculture wastage are neither available as per need nor burning them is feasible.

Annual Requirement of Coal:

The average annual requirement of coal for the process will be estimated in table below-

S.N.	Year	Total Estimated Production of Raw Bricks in No's.	Coal Need per 1 lac of Brick (in MT)	Maximum Annual Coal Requirement (in MT)
1	1st Year	2029391	12	243.53
2	2nd Year	2029391	12	243.53
3	3rd Year	2029391	12	243.53
4	4th Year	2029391	12	243.53
5	5th Year	2029391	12	243.53

Source of Coal

Coal will be obtained from coal project .

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CHAPTER- 6
MANPOWER DEPLOYMENT

State average daily employment and statutory personals:

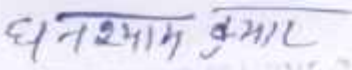
Employment strength will be as under as it stood presently:-

- | | | |
|--------------------------|---|---|
| (1) Mining Mate | : | 1 no. Qualified |
| (2) Chpwkidars | : | 1 no. Experienced |
| (3) Semi-Skilled Labours | : | 4 the strength will depend upon Production. |
| (4) Skilled Labours | : | Taking standard O.M.S. to be one the strength of labour for 250 nos. of bricks production per day and working for 240 days a year, 34 labours per day will be required. |

= 34 labours per day.

Tot = 40 Nos. per day

Mining will generate employment opportunity to local inhabitants directly or indirectly in mining as well as in consequent related activity. All statutory provisions relating to wages, employment and labours will be complied with duly as and when applicable.


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CHAPTER- 7
USE OF MINERAL

Describe the utilization of mineral and type of industry.

Bricks are basic material for civil construction works like buildings etc. for construction of walls. State Government, is carrying on various new township and building projects in all districts. In addition to these various civil constructions, Buildings & Colonies development projects are coming up in Private sectors and are under implementations, all above civil works require Bricks which is in huge demand.

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CHAPTER-8
WASTE DISPOSAL ARRANGEMENTS

- a) **Selection of dumping site:** Whatsoever quantity of mine waste generated during the quarrying operation will be stacked at the periphery of mine along the boundary.
- b) **Maximum height and spread of dump:** Height of dumped waste will not exceed 1.0 meter in any case along with the slope of not more than 28 degrees.
- c) **Stacking of sub-grade materials:** What so ever sub grade mineral or rejected bricks generated during brick making process will be stacked at lease area.
- d) **Selection of site for stacking:** Rejected broken bricks will be stacked within the lease area where minerals clay have been excavated till the depth of 2 meter and no further clay is allowed to be excavated so that these pits can be reclaimed.
- e) **Height and spread of stacks:** Height of dumped waste will not exceed 3.0 meter in any case along with the slope of not more than 28 degrees.

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CHAPTER-9
ENVIRONMENT MANAGEMENT PLAN

A) Measures for protection of environment, especially against air and water pollution due to Quarrying operation:

At present what so ever mining activity carried out in the proposed lease area is not so big. The area is also devoid of flora and fauna. The socio-economic status of the surrounding village is rural with dominant agriculture economy. The surrounding area is thinly populated. There will be no adverse impact due to mining on socio-economic environment. The possible impact on environment is being discussed in the following chapters:

Land use pattern:

Articles	Land use at the end of 5 years in Hect.	Forest Land	Agri. Land	waste Land	Land use at the end of 10 years in Hect.
A. Lease Area	1.480	-	-	1.480	1.480
B. Quarrying & allied	-	-	-	-	-
1. Area under pits	1.432	-	-	-	1.432
2. Area for dumping	0.048	-	-	-	0.048
3. Area for road	-	-	-	-	-
4. Area for Infrastructure	-	-	-	-	-
5. Plantation	0.048	-	-	-	0.048
6. Storage of Mineral	-	-	-	-	-
7. Storage of fines	-	-	-	-	-
8. Processing unit	0.000	-	-	-	-
9. Unused area	-	-	-	-	-

Environment Management Plan annexed as Plate No. - 8

Environment Impact Assessment Statement:

Proposed mining activity will be carried out by Open-cast manual method of mining. Lease hold area is not so big and also the area is devoid of flora and fauna

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i) Land environment:

The proposed lease area is Private Flat land with devoid of vegetation. The area is developed mines with installed fixed chimney within the lease area. The entire area is covered with soil.

As a result of mining operation the original land profile will be altered. The proposed lease hold area is covered with whatsoever overburden/waste will be generated, will be stacked along the statutory barrier.

Topography of the area is Flat land. Reclamation operation will not be possible due to insufficient quantity of material available for reclamation. Pit will be used as agriculture land after complete excavation of mineral.

ii) Air Environment:

There was no major mining activity in the applied area and no air pollution because of mining activity in surrounding area observed. There is no industry in the buffer zone.

Source of Air Pollution:

Emission of SO_x and NO_x may be caused due to use of diesel operated tractor and other Machines etc.

Dust will be generated from loading/unloading and vehicle movement activity etc.

Mitigation measures:

Impact of above is localized, transitory and intermittent in nature and hence their effect on environment is insignificant. However, the following measures will be taken to mitigate the air pollution-

- i. The better maintenance of diesel operated equipment/vehicle will help to reduce emissions (SO_x and NO_x) and maintain below permissible limit.
- ii. Fugitive emissions due to coal burning will be emitted at the height of 33 meter by installed fix chimney along with gravitational settling chamber.
- iii. Fugitive emissions during loading/unloading, handling and transportation of clay and brick will be suppressed by water sprinkler & water spray. Water sprinkling on transport road side (approx. 120 m.), Water sprinkling on stock yard, if any etc. will be done by tractor mounted water sprinkler.
- iv. **Avoid Spillage:** Transportation of minerals will be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of minerals / dust takes place.

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- v. No overloading of minerals for transportation will be committed so that no spillage of minerals / dust takes place.
- vi. **Dense Plantation:** Growing of a green belt along the periphery of lease area will control the air pollution.

iii) Water Environment:

Surface Water: At present there is a water source, which is passing through the lease area and its surrounding except River at 100 m.

Ground Water: It is noticed that the ground water is available below 15 meters of the normal surface level as well as in nearby dug wells and bore wells etc. As the mining operation has been carried out above the ground water table hence there would not be any adverse effect on the ground water.

a) Likely impact of mining on water table

Positive.

The dug out pit will help in recharging of Ground Water by decreasing the runoff.

b) Details of modification/diversion of natural drainage system /Obstruction of water channels and measures taken –

Not Applicable as no any surface water body present in the lease area. No any water body like nalla or river is available near the lease area which needs to be diverted due to quarry mine project. Garland drain of appropriate size will be constructed along with the settling tank at the boundary of statutory limits of the quarry mine to manage the natural drainage and runoff.

c) Measures taken for minimizing silting and contamination of water:

Since the water table is below the maximum excavation depth of operation (2 meter of depth) and the flow or extent of nearest hydrology is too far from the proposed lease area thus no impact can be assessed on water table, water flow or hydrology. Moreover no sewage or other effluents will be generated from the mining activity which are required to be discharged on water hence no water pollution can be assessed. The mining shall not cause any change or diversion of any source of water in the area or any drainage pattern.

Water pollution in mining is generally caused due to generation of dust Oil & grease of transport vehicles etc.

4-12-2017 3/11/17

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Mitigation measures proposed for water pollution:-

i) Surface water:

No surface water source such as rivers, streams & dams exists in the mining lease area. Proper maintenance of transport vehicle & prevention of washing of transport vehicle in ponds etc. be helpful to control Water pollution, and it is mandatory for lessee.

ii) Ground water:

Mining for each successive year is proposed to its optimum depth of mineral bed and the mining will not touch the ground water table so there is no chance of disturbance to ground water table. The dug out pit will help in recharging of Ground Water by decreasing the runoff.

d) Requirement of water for quarrying operations

No water is required for the mining process. The details of water balance for existing / proposed mining/processing activity are given below:

A) Computation of Water Requirement for Bricks Production Process

Year	Total Estimated Production of Bricks in No's.	Water Need per 1 lac of Brick (in ltr)	Number of working Days	Water Needed for Clay Molding per day (in KLD)
1 st	2,029,391	0.25	240	2.11
2 nd	2,029,391	0.25	240	2.11
3 rd	2,029,391	0.25	240	2.11
4 th	2,029,391	0.25	240	2.11
5 th	2,029,391	0.25	240	2.11

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B) Water Balance :

Year	Mine Site		Bricks Manufacturing		Domestic		Total Water Requirement in KLD
	Dust	Green	Clay	Clay Molding	Drinking	Other	
1 st	2	1	Nil	2.11	2.5	-	7.61
2 nd	2	1	Nil	2.11	2.5	-	7.61
3 rd	2	1	Nil	2.11	2.5	-	7.61
4 th	2	1	Nil	2.11	2.5	-	7.61

e) Source of water

- I) **For Green belt and dust suppression:** Water will be made available from quarry mine pit which is accumulated during the rainy season and shall be collected in settling tank for utilization in green belt and dust suppression.
- II) **Domestic usage:** Drinking water is available from dug wells and tube wells in villages near the applied area which is portable, pure and clean.

However, if required, water might be supplied from tube wells within the lease area after taking all statutory permissions.

iv) Noise & Vibration:

- a) **Noise :** Negligible

In the open-cast manual mining the ambient noise level are well within the standards of Occupational Safety and Health Administration (OSHA) and Pollution Control Board. There is likelihood of some increase in noise due to operation of machinery like engines, however noise levels will be less than 90 dBA and exposure to the workers for 8 hours will also be less than stipulated standard of 90 dBA and it's a short term activity.

Mitigation Measures:

Persons working just close to the machines will be provided with ear plugs/ear muffs for further protection. However, impact of operational activity and traffic as mentioned above is local, transitory and intermittent which is for short-term hence no considerable impact can be envisaged.

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- b) Ground Vibration : Negligible
- c) Fly Rock - NIL
- d) Storage of explosive (like capacity and type of explosive magazine):

Not Applicable.

v) **Human Environment:**

No village or human dwellings are within the quarry lease area. Therefore there will not be any need for resettlement. While due to increase revenue earning in the area there is development of infrastructure facilities like transport, road, housing, schooling and hospital etc. will be raised. There is no any village falling around 2 km. of transportation road side but then also it is the commitment of lessee to cover material during transportation and sprinkling of water on transport road side to minimize the harmful impact on human life due to mining activity.

At this time there is no public buildings or monuments of any importance is seen nearby, which could be affected due to quarry mining operation.

vi) **Social Infrastructure**

At present there are not much activities other than the agricultural activity in the surrounding area. On the other hand mining will generate employment opportunity to local inhabitants directly or indirectly in mining as well as in consequent related activities.

The method of mining will be small scale. There will not be any development of large machinery in the proposed lease area to carryout mining operation, which will create noise pollution, air pollution or any other operational hazards to local public life.

vii) **Rehabilitation and Resettlement (R & R) Plan**

No R&R plan is required as the quarry mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement. No public buildings, places, monuments etc. exist within the lease area or in the vicinity of the mine lease area. The mining operation will not disturb/ relocate any village or need resettlement. Thus no adverse impact is anticipated.

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viii) **Stabilization and Vegetation of dumps:**

As the area is Flat and the proposed height of the top soil/OB dump will be about 1 meter, therefore it is proposed to be stabilized the dump by grass plantation or cutting of local bushes on it so that spillage of dump does not occur in the surrounding.

- a) **Selection of dumping site:** whatsoever quantity of mine waste generated during the quarrying operation will be stacked at the periphery of mine along the statutory boundary in such a manner that no stacking will be done on the edge of the statutory boundary.
- b) **Maximum height and spread of dump:** Height of dumped waste will not exceed 1 meter in any case along with the slope of not more than 28 degrees

Sewerage system:

No sewerage system is proposed to be developed in the lease area.

ix) **Environmental monitoring:**

It is proposed to install air, noise and water monitoring stations within the lease area in order to measure the level of change in various environmental factors.

Further following steps will also be taken for environment monitoring and management –

A) Year-wise Program for Plantation:

Afforestation program shall be started with the commencement of mining operation with simultaneous clearing of land by spreading of clay lumps along barrier of proposed lease boundary. 2.5m X 2.5m spacing with 0.6m depth have been suggested for sapling pits on which local species will be planted in the following manner-

Signature of lessee

Dr. Ashish Shamra Registration No. RQP

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Year	Proposed Site	Species	No. of Sapling
1st Year	All along lease boundary	Seesam, Bargad, Neem, Aam, Pipal etc.	80

B) Budgetary arrangement for environment monitoring management :

Total Rs. 30000/- will be utilized annually for environment management like Plantation, Water sprinkling on transport road, Water sprinkling on stock yard etc. The details of expenditure are given in table below: .

Proposed Action Plan Towards socio economic development	Expenses per Year (in Rs.)
General Development of the area	
i) Dust Suppression	10,000
ii) CSR Activities	5,000
iii) Development of Green Belt	10,000
iv) Expenditure for Environment Monitor	5,000
Total	30,000

Signature of lessee

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Dr. Ashish Sharma
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CHAPTER-10
MEASURES TO BE TAKEN FOR RECLAMATION OF LAND

i) Mined out land –

As a result of mining operation, the original ground profile will be altered. The lease area is small and topography of the area is flat. Whatsoever mine waste will be generated; will be stacked along the barrier of mine. Reclamation operation will not be possible due to insufficient quantity of material available for reclamation. After complete excavation of minerals pit will be used as agriculture land.

ii) Storage and prevention of top-soil –

Not Applicable as soil will be used for brick making.

iii) Proposal for reclamation of land affected by quarrying activities during and at the end of the

Reclamation of mined out area is the most important activity of EMP, as a result of mining operation the original land profile will be altered. The proposed lease hold area is covered with alluvial soil.

Topography of the area is Flat. Reclamation activities will be commenced only after attaining the optimum thickness which is economically viable has been extracted.

During the lease period whatsoever overburden/waste will be generated, will be stacked along the statutory barrier so that it can only be used for reclamation purpose or construction of haul road at or near by the mining area. Reclamation operation will not be possible due to insufficient quantity of material available for reclamation. After complete excavation of minerals pit will be developed as agriculture land.

iv) Disposal of Rejected/Broken, Sub Grade Bricks and Waste

In the fix chimney brick manufacturing process some broken/ rejected bricks may arises. Moreover, ash gets generated due to burning of coal. These two items requires their due management. Non-saleable rejected or broken bricks, generated during operations have to be stored separately in an open ground and will be disposed by using it to create haul roads or for filling of pits at or around the proposed lease land.

Generated ash from the plant will be re-utilized for manufacturing of bricks by mixing it with brick clay mix.

५१२५१५ अमल
Signature of lessee

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CHAPTER-11
QUARRYING CLOSURE PLAN

1) Introduction :

M/s Hero It Udyog MR. Ghanshyam Kumar of village Mehush tehsil Mehush district Sheikhpura (Bihar) Pin No. 811102. The lease is already sanctioned over an area of 1.489 Hect. at village Sahra Batora in District - Sheikhpura (Bihar)

The approved khasra map is enclosed as Plate No. -1.

Description about the quarry mine is given in the below table -

State	Bihar				
District	Sheikhpura				
Taluka	Ghat Kusumbha				
Village	Sahra Batora				
Khasra No.	1918, 523, 523 & Khata No- 32, 124, 124				
Lease area (hectares)	1.489 Hect.				
Compartment number if the area is recorded to be in forest (please specify whether protected, reserve etc.)	Not Applicable				
Ownership/Occupancy	1918, 523, 523 & Khata No- 32, 124, 124			Private Land	
Existence of public Road/ railway line, if any, nearby and approximate distance	National Highway		NH 33 is 10.0 km at West		
	State Highway		Road at 10.0 km. West		
	Public Road		200 m in East		
	Railway Line		10.0 Km in South		
Toposheet No with Latitude/ Longitude	Toposheet No. 0				
Boundry Point	Latitude	Longitude	Boundry Point	Latitude	Longitude
A	85° 53' 33.769" E	25° 13' 45.513" N	E	85° 53' 28.047" E	25° 13' 49.799" N
B	85° 53' 37.000" E	25° 13' 45.313" N	F	85° 53' 28.141" E	25° 13' 51.943" N
C	85° 53' 36.742" E	25° 13' 41.126" N	G	85° 53' 29.666" E	25° 13' 51.785" N
D	85° 53' 33.586" E	25° 13' 40.674" N	H	85° 53' 29.525" E	25° 13' 49.810" N
Land Use Pattern (Forest, agricultural, grazing, barren, etc.)	(i) Forest		Forest (specify)		Area (ha)- Nil
	(ii) Non-forest		(i)		1.489 Hect. Area.
	Waste Land-		(ii) Grazing land,		Nil
			(iii) Agriculture		Nil
			(iv) barren land		Nil
			(v) others (specify)		Nil

Signature of lessee

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ii) Land Use:

Land use distribution proposed for quarrying and its allied works and ultimate land use details

Articles	Land use at the end of 5 years in Hect.	Forest Land	Agri. Land	waste Land	Land use at the end of 10 years in Hect.
A. Lease Area	1.480	-	-	1.480	1.480
B. Quarrying & allied	-	-	-	-	-
1. Area under pits	1.432	-	-	-	1.432
2. Area for dumping	0.048	-	-	-	0.048
3. Area for road	-	-	-	-	-
4. Area for Infrastructure	-	-	-	-	-
5. Plantation	0.048	-	-	-	0.048
6. Storage of Mineral	-	-	-	-	-
7. Storage of fines	-	-	-	-	-
8. Processing unit	0.000	-	-	-	-
9. Unused area	-	-	-	-	-

iii) Mining /Quarrying Method:

Already discussed in quarry plan, Please refer chapter 5 of the quarry plan.

iv) Reasons for closure :

As per the rules the lessee has to submit quarry mining plan with progressive quarry closure

v) Statutory Obligation: Not Applicable.

vi) Closure Plan Preparation:

Signature of lessee

अनश्वर कुमार

Dr. Ashish Shamra Registration No. RQP

Dr. Ashish Shamra
Signature of RCP
Phd-Geology
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4

Applicant:

M/s Hero It Udyog
Mouza - Mehush
Anchal - Mehush
District - Sheikhpura
State - Bihar
PIN code - 811102
Phone -

Status: Private Individual

Registered Qualified Person:

Dr. Ashish Sharma
Address- Hasib Villa, Naya Tola Line Bazar
Purnea, Bihar
Cell: 9753385659, +91-7992448925
Email: ashish_78617@rediffmail.com

Signature of lessee
११/२५/२५

Dr. Ashish Sharma Registration No. RQP

Signature of RQP
Dr. Ashish Sharma
Phd-Geology
Approved RQP Dept. of Mines & Geology
Govt. of Bihar Approved RQP List, Sl No.-9

vii) Mine Description :

A) Geology:

Regional Geological Set Up:-

Already discussed in quarry plan, Please refer chapter 3 of the quarry plan.

Local Geological Set Up:-

Already discussed in quarry plan, Please refer chapter 3 of the quarry plan.

B) Reserves:

i) **GEOLOGICAL RESERVE**

The area is almost Flat and developed quarry land. The formula adopted for calculation of reserve is graphical method.

$$\begin{aligned} \text{Area (m}^2\text{)} \times \text{Average height} &= \text{Volume (m}^3\text{)} \times \text{specific gravity} = \text{Tonnage} \\ \text{Area (m}^2\text{)} \times \text{depth} &= \text{Volume (m}^3\text{)} \times \text{specific gravity} = \text{Tonnage} \end{aligned}$$

A =	14800.0 m ²	X	2.0 m	=	29600.00 m ³
A+B+C =			Total	=	29600.00 m ³

Total geological reserve comes to 29600 cum

MINERAL BLOKAGE

- a) Reserve Blocked in Mine Limit - Blockage in barrier (1 meter of berm left due to compliance of guidelines of MOEF): -

$$\text{Area} = \text{Length} \times \text{Width}$$

=	482.12 m	X	1.0 m	=	482.12 m ²
=	482.12 m ²	X	2.0 m	=	964.24 m ³

Total reserve Blocked in mine boundary (a) = 964.24 m³

b) Reserve Blocked in Benches & Slope Maintenance (b) = 645.89 m³

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c) Other Blockage

i) Reserve blocked under Fix Chimney/Killen = 0.00 m³

Total Blocked Reserve (a + b + c) = 1610.14 m³

MINEABLE RESERVE

Mineable Reserves = (Geological reserves - Blocked reserve)

= 29600.0 m³ - 1610.14 m³

= 27989.9 m³

RECOVERABLE RESERVE

Recoverable Reserve = (Mineable Reserves - 10% of Mineable Reserves)

= 27989.9 m³ - (27990 m³ x 10% = 2799.0)

= 25190.88 m³

Total Recoverable reserves = 25190.88 m³

C) Closure Plan :

1) Mined Out Land :

a) Storage & preservation of top soil: Not Applicable

b) Proposal for reclamation of land affected by mining activities during and at the time of mining: As a result of mining operation, the original ground profile will be altered.

The lease area is small and topography of the area is Flat. Whatsoever overburden/waste will be generated, will be stacked along the statutory barrier so that it can only be used for reclamation purpose or construction of haul road at or near by the mining area.

Reclamation operation will not be possible due to insufficient quantity of material available for reclamation. Pit will be developed as agriculture land.

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- c) **Forest:** The area does not fall under forest.
- d) **Pollution:** Closure activity does not involve such activity in order to generate considerable pollution surrounding the environment.
- Vegetation:** Though there are little chances of adverse effect on vegetation but new plantation is proposed 80 Local plants on 1st Year of plan and provided with barbed wire fencing. It is also proposed to do social forestry.
- Plantation will be done concomitant with the mining operations in a phased manner. This will be done after the completion of mining operation also. Afforestation will be done in consultation with forest department as mentioned earlier in this report.

Since the area is barren and there is no grass etc. cattle grazing in the mining area is not possible. In view of shallow mining there is no chance of cattle falling in the pits.

2) **Water quality management :**

There are no surface water and ground water bodies available in the lease area. There is no perennial rivers/nallas or spring present near by the proposed lease area. Water table is available at approx. 15 meter below from the normal surface level. As an evident from nearby wells, as well as by villagers during the summer water table goes down below 15 meter and in rainy season water table comes up within 10 meter. Since the water table is below the maximum excavation depth of operation and the flow or extent of nearest hydrology is too far from the proposed lease area thus no impact can be assessed on water table, water flow or hydrology. Moreover no sewage or other effluents will be generated from the mining activity which are required to be discharged on water hence no water pollution can be assessed. The mining shall not cause any change or diversion of any source of water in the area or any drainage pattern.

3) **Air Quality Management :**

The proposed mining method is manual in nature and small. There will not be any deployment of heavy machinery. Emissions of SO_x and NO_x may be caused due to use of diesel operated tractor machines etc. Dust will be generated during loading/unloading and vehicle movement activity etc. Impact of above is localized, transitory and intermittent in nature and hence their effect on environment is insignificant. However the following measures will be taken to mitigate the air pollution-

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To prevent air pollution the following corrective steps will be taken during mining:

- i) The better maintenance of diesel operated equipment/vehicle will help to reduce emissions (SOx and NOx) and maintain below permissible limit.
- ii) Fugitive emissions during mining, loading/unloading, handling and transportation will be suppressed by water sprinkler on transport road side and stock yard etc. by tractor mounted water sprinkler.
- iii) Other machineries will be shifted to other site of the applicant.
- iv) **Avoid Spillage:** Transportation of minerals will be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of minerals / dust takes place.
- v) **Dense Plantation:** During and after mining operation plants will be planted in consultation with forest department. Under these circumstances, reclamation will be done in consultation with forest department so that the plants species may be of similar type as prevalent in the area.

Therefore no significant impact on the quality of air in the surrounding area will be feared.

- 4) **Top soil management:** Not Applicable
Tailing Dam Management: Not Applicable because no dam is present around the lease area.
- 5) **Infrastructure:** As the mining activity does not require major infrastructure except few machineries and rest shelters, therefore at the time of closure of mine machineries will be shifted to other places of applicant and rest shelters etc. will continued to be used.
- 6) **Mining Machinery:** Tractors will only be utilized which will be shifted to other quarry mines at MCP stage. No disposal / shifting will be needed in the MCP period.
- 7) **Safety and Security:** All the safety measures will be implemented to prevent access to surface openings, excavations etc., and arrangements proposed during the quarry mine abandonment plan and up to the site being opened for general public should be as per Govt. rules.
- 8) **Disaster Management & Risk Assessment:** This should deal with action plan for high risk accidents like landslides, subsidence, flood, inundation in underground mines, fire, seismic activities, tailing dam failure etc. and emergency plan proposed for quick evacuation, ameliorative measures to be taken etc. The capability of lessee to meet such eventualities and the assistance to be required from the local authority will be as per Govt. rules.

Signature of lessee

Signature of lessee

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- 9) **Care and maintenance during temporary discontinuance:** For every ten yearly review (as given in the mining plan), an emergency plan for the situation of temporary discontinuance or incomplete programme due to court order or due to statutory requirements or any other unforeseen circumstances, should include a plan indicating measures of care, maintenance and monitoring of status of unplanned discontinued mining operations expected to re-open in near future. This should be in detail, item wise status monitoring and maintenance with periodicity. When it will require will be maintained as per Govt. rules.
- 10) **Financial Assurance:** Financial assurance has to be furnished by every lease holder. The amount of financial assurance shall be @ rupees 25,000 per hectare or part thereof of the quarry lease area.

Financial assurance = 25,000 X Lease Area in Hect.

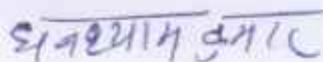
$$= 25000 \times 1.489 \text{ Hect.}$$

$$= 50000$$

Total financial assurance is Rs. 50000

Progressive Quarry Closure Plan annexed as Plate No. – 6

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Signature of lessee

Dr. Ashish Shamra Registration No. RQP


Dr. Ashish Shamra
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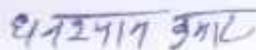
CERTIFICATE FROM APPLICANT

- a) Certified that the provisions of mine Act, Rules and Regulations made there under have been observed in the mining plan and wherever specifications are required, the applicant will approach to the Director General of mine & Safety.
- b) It is also certified that the information's furnished in the above quarry plan, environment management plan, and quarry closure plan are true and correct to the best of my knowledge and belief. Above quarry plan, environment management plan, and quarry closure plan have been drafted on the basis of information provided by me and the above plans so drafted are accepted to me.

(APPLICANT)

M/s Hero It Udyog
Mouza - Mehush
Anchal - Mehush
District - Sheikhpura (Bihar)
PIN code - 811102

-----***-----



Signature of lessee

Dr. Ashish Shamra Registration No. RQP


Dr. Ashish Shamra

Signature of ROP Page 38

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CONSENT LETTER FROM THE LESSEE

The plan of quarry mining in respect of Sahra Batora Brick Earthclay Quarry Mine & Fixed Chimney Brick Plant at village- Sahra Batora, Sheikhpura, (Bihar) for an area of 1.489 Hect. (Submitted under of Bihar Minor Mineral Concession (Amendment) Rule 2019 .

I request the D.G.M, Bihar to make further correspondence regarding modifications in the scheme of mining with the said recognized person on his following address:-

Dr. Ashish Sharma

E-mail- econextconsultants@gmail.com, Mob. No: +91-7992448925

I hereby undertake that all the modification so made in the scheme of mining by the recognized person may be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respect. I have "understood the contents further. I hereby authorize Dr. Ashish Sharma to collect the copies of approved Plan of mining along with approval letter from you or you may directly send the same on RQP above said address.

APPLICANT

M/s Hero It Udyog
MR. Ghanshyam Kumar
Mouza - Mehush,
Anchal - Mehush,
District- Sheikhpura (Bihar)
Pin no. - 811102

DATE -
PLACE: Mehush

DOCUMENTS & LAND AGREEMENT

भारतीय गैर न्यायिक INDIA NON JUDICIAL

एक हजार रुपये
रु.1000

ONE THOUSAND RUPEES
Rs.1000

क्र. 637 दि. 11/12/2024 रु. 1000/- दानश्याम कुमार पुत्र शांतिगाम + पौ. मेहुस जिला - शेखपुरा
बिहार BIHAR AY 174226

08 OCT 2024

नोटरी पब्लिक, शेखपुरा

शपथ-पत्र संख्या :- 1879/2024

एकरासनामा

प्रथम पक्ष :-

1. शांतिगाम सिंह, पिता- स्व० घादो सिंह सर्फ स्व० चंद्रिका सिंह

आधार संख्या :- 8685 97437 817

2. जयसम सिंह पिता - स्व० चंद्रिका सिंह

आधार संख्या :- 4317 9439 9699

दोनों साकिन- मेहुस, पौ०- मेहुस, थाना- मेहुस, जिला - शेखपुरा।

द्वितीय पक्ष :-

धनश्याम कुमार पिता शांतिगाम सिंह साकिन

मेहुस, पौ०- मेहुस, थाना- मेहुस, जिला - शेखपुरा।

आधार संख्या :- 2988 2881 2772

किस्म गसीका :-

एकरासनामा

1. यह कि द्वितीय पक्ष धनश्याम कुमार "मेसर्स हीरो ईट उद्योग" ग्राम + पौ० + थाना - मेहुस के प्रोपराइटर हैं।

3. यह कि प्रथम पक्षगण शालिग्राम सिंह एवं जयराम सिंह ने अपनी-अपनी जमीन गाँवा — सहारा बटौरा, आना नं० 90 में द्वितीय पक्ष को 05 वर्षों के लिए 02 मीटर मिट्टी काट कर ईंट बनाने के लिए सहमति दे रहे हैं। जिसका विवरण निम्नलिखित है :-

गाँवा	खाता	खसरा	रकबा	पैयल
सहारा बटौरा	32	1918	02 एकड़ 36.5 बी०	शालीग्राम सिंह
	124	529		
सहारा बटौरा	124	523	01 एकड़ 31.5 बी०	जयराम सिंह

यह कि प्रथम पक्षगण अपनी — अपनी उपरोक्त खाते खसरे की जमीन में 02 मीटर मिट्टी काटने की अनुमति दी है।

4. यह कि उपरोक्त एकरारनामा में लिखी सभी बातों को दोनों पक्षों ने पढ़ा व पढ़ा कर सुन व समझ लिया या सही लिखा पाकर दोनों पक्षों ने अपना-अपना हस्ताक्षर बनाया।

प्रथम पक्ष का हस्ताक्षर

शालीग्राम सिंह

जयराम सिंह

द्वितीय पक्ष का हस्ताक्षर

शालीग्राम सिंह

अधिवक्ता का हस्ताक्षर

19/12/99

The Deponent

identified by Advocate

Solemnly Affirmed & declared before

me on this 12 day of 12 2009

Shaligram Singh

12/12/99

12/12/99

Shaligram Singh

राजस्व एवं भूमि सुधार विभाग, बिलासपुर

सदरमान

पृष्ठ-14IV स
(देखें नियम-10)

लगान रनीद

06012308324037806371
(06012308324037806371)

संशोधन भाग (आचार्य और डॉ. अर्जुन) द्वारा विभाजित की गई।

विशेष वर्ष	यातायात दर	सफाई	वर्तमान	मुद्र	रुप	अनुमानित (वर्तमान का वर्ष तक हो सकेगा)
क्यापटी सफाई	30.00	203.50	30.00	0.00	240.00	2015-2016 से 2022-2023
सफाईवाला का 50 प्रतिशत व्यावसायिक सेवा 50 प्रतिशत विद्या सेवा का प्रतिशत सेवा से 50	43.50	244.50	43.50	0.00	350.00	2015-2016 से 2022-2023
20 प्रतिशत शुद्ध सेवा	73.50	174.50	73.50	0.00	590.00	2015-2016 से 2022-2023

प्रमाण पत्र	विकास से जिकट अवधि	वर्षाव आम क अवधि	कुल वर्षाव अवधि	अवधि प्रतिवर्ष (ग) का वर्षाव से कम मात्रा में अवधि
अवधि	2.5 (5)	2.5 (5)	2.5 (5)	2.5 (5) से कम 2.5 (5)
अवधि का 50 प्रतिशत अथवा 50 से कम प्रतिशत	2.5 (5)	2.5 (5)	2.5 (5)	2.5 (5) से कम 2.5 (5)
अवधि का 50 प्रतिशत अथवा 50 से कम प्रतिशत	2.5 (5)	2.5 (5)	2.5 (5)	2.5 (5) से कम 2.5 (5)

電話 02-673-6901, 03

500 की गती गती में- Five Hundred Ninety Nines

01-05-01-1023



111 73 445524 401 1 001 001

कृषि की प्रमुख समस्याओं में से एक है। इस समस्या को हल करने के लिए सरकार ने कई योजनाएँ शुरू की हैं।

राजस्व एवं भूमि सुधार विभाग, बिहार

सरकार
प्रपत्र-खिव रु
(देखें नियम-10)
लगान रसीद

Scanning Unique ID: 00012309071929401499
(Receipt No.)

आप्तमाना मासावकाया और वर्तमान) चालु वित्तीय वर्ष का

क्रिस्टीय धर्म	सालाना दूर	बकाया	वर्तमान	सुर	कुल	अभिसुक्ति(बकाया का धर्म काय से कम तक)
जम्मावदी कराव	15.00	36.00	16.00	0.00	80.00	2014-2015 से 2022-2023
लेस/कराव का 50 प्रतिशत/समाप्य लेस, 50 प्रतिशत/विशुद्ध लेस, 25 प्रतिशत रोड-लेस तब 25 प्रतिशत कुमि लेस	14.50	118.00	18.00	0.00	140.50	2014-2015 से 2022-2023
रात	24.55	198.00	24.00	6.00	238.55	2014-2015 से 2022-2023

वित्तिय वर्ष	विकास क विकास वस्तु	वस्तु		कुल वस्तु	अवशेष राशि (विकास का वर्ष कम से कम तक)	अभिव्यक्ति
		वर्तमान मार्ग के विकास का वस्तु	विकास वस्तु			
साल	80.00	10.00	90.00	2014-2015 से 2022-2023		
मिश्र (साल का 30 प्रतिशत स्वतंत्र मूल, 20 प्रतिशत मिश्र मूल, 20 प्रतिशत घट मूल एवं 20 प्रतिशत ग्राम मूल)	110.00	14.50	140.00	2014-2015 से 2022-2023		
कुल	190.00	24.50	230.00	2014-2015 से 2022-2023		

कुल बकाया-236.00

ਦੇਨਾਸ ਦੀ ਸਹੀ ਸਹੀ ਸ਼ਬਦੀ ਮੈ. Two Hundred Thirty Rupees

1871-05-01-2023



ਭਾਗ ੧: ਪੰਨਾ ੧੦੦ ਦੇ ੧੦੦

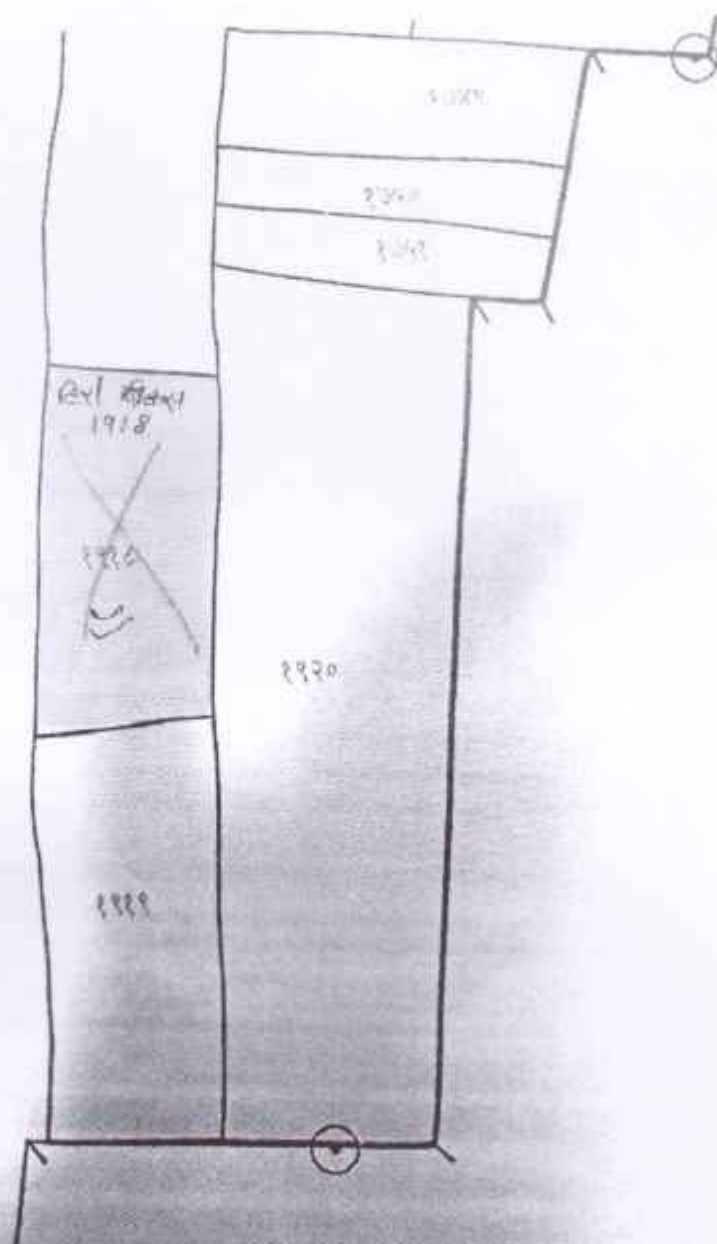
विशेष: १० प्रश्नों को अनिवार्य रूप से हल करना पड़ेगा। (अन्य प्रश्नों का चयन स्वच्छता के अनुसार होगा।)

31/2/07

मौजा नं. १५

मौजाहूर नाम : सहरा बटौरा

Mouza Name : Sahra Bataura No 90

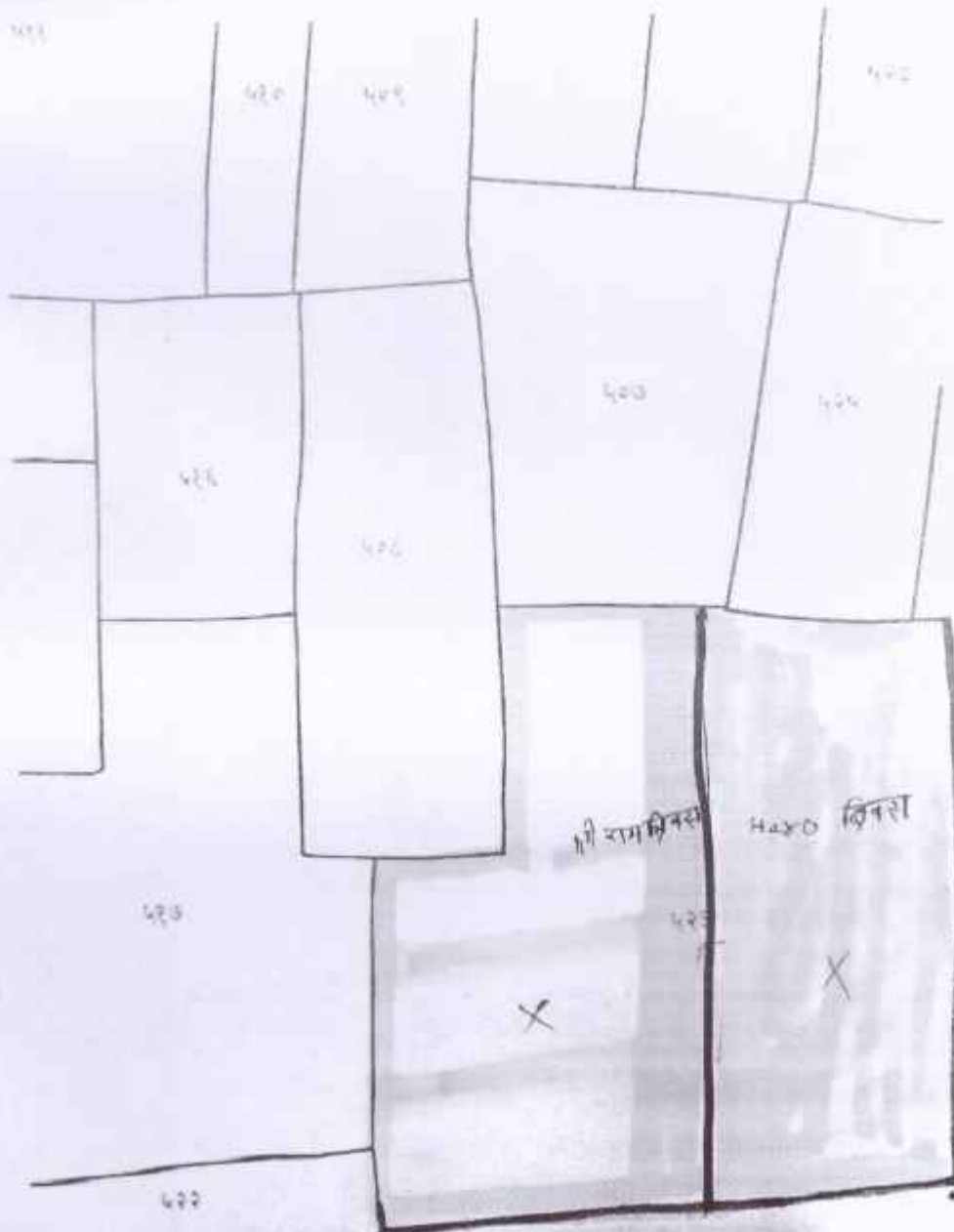


चादर नं: २

मसहूर नाम : सहरा बटौरा

Mouza Name : Sahra Bataura No 90

11





भारत सरकार
Government of India



घनश्याम कुमार
Ghanshyam Kumar
जन्म तिथि/DOB: 25/11/1998
पुरुष/ MALE

Issue Date: 26/03/2021

Download Date: 14/07/2021

2988 2881 2772

VID : 9191 8933 2528 8712

मेरा आधार, मेरी पहचान



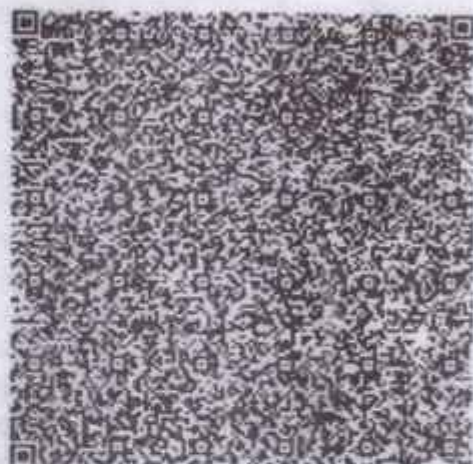
भारतीय विशिष्ट पहचान प्राधिकरण

Unique Identification Authority of India



पता:
महंस, मेहंस, शेखपुरा,
बिहार - 811102

Address:
MAHNSH, Mehuns, Sheikhpura,
Bihar - 811102



2988 2881 2772

VID : 9191 8933 2528 8712



1947



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www.uidai.gov.in

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA



स्थायी लेखा संख्या कार्ड
Permanent Account Number Card

FLCPK7307C

नाम/ Name
GHANSHYAM KUMAR

पिता का नाम/ Father's Name
SHALIGRAM SINGH

जन्म की तारीख/ Date of Birth
25/11/1998

Ghanshyam Kumar

हस्ताक्षर/ Signature



24052017



Government of India
Form GST REG-06
[See Rule 16(1)]

Registration Certificate

Registration Number : 10FLCPK3307C1ZQ

1	Legal Name:	GHANSHYAM KUMAR			
2	Trade Name, if any:	GHANSHYAM KUMAR			
3	Constitution of Business	Proprietorship			
4	Address of Principal Place of Business	MAFO, PROP. GHANSHYAM KUMAR, MAFO, GHATKUSUMBHA, SHEIKHPURA, Sheikhpura, Bihar, 811102			
5	Date of Liability				
6	Period of Validity	From	30/11/2017	To	NA
7	Type of Registration	Regular			
8	Particulars of Approving Authority	Centre			
Signature		Signature Not Verified Digitally signed by JPS GOUDAS ANNO SERVICES PAK NET WORK S Date: 2018.04.16 12:55:24 +05'30'			
Name		MANOJ KUMAR SAW			
Designation		Superintendent			
Jurisdictional Office		Lakhisarai			
% Date of issue of Certificate		10/04/2018			
Note: The registration certificate is required to be prominently displayed at all places of business in the State					

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 30/11/2017 by the jurisdictional authority.

RQP CERTIFICATE

बिहार राज्यान्तर्गत लघु खनिजों के खनन योजना तैयार करने हेतु एंजेंसी Empanelment के लिए आमंत्रित Expression of Interest के तहत प्राप्त निविदा के क्रम में दिनांक-22.08.2019 को अपराह्न 03:00 बजे विभागीय समिति के बैठक की कार्यवाही :-

बिहार राज्यान्तर्गत लघु खनिजों के खनन योजना तैयार करने हेतु एंजेंसी Empanelment के लिए आमंत्रित Expression of Interest के दस्तावेजों/कागजातों के आधार पर PMU द्वारा तैयार विवरणी की जाँच खान एवं भूतत्व विभाग, पटना के अपर सचिव-सह-निदेशक-सह-अध्यक्ष के कार्यालय कक्ष में अन्य सदस्यों के समक्ष की गई।

2. आमंत्रित Expression of Interest के तहत कुल 36 आवेदन विभाग को प्राप्त हुए, जिसमें रो कडिका-14 में उल्लेखित प्रतिष्ठान भूमि इन्चार्जस्टेक प्रा० लि० को योग्यता संबंधी प्रमाण पत्र नहीं संलग्न करने के कारण तथा कडिका-34 में उल्लेखित मेसर्स संयुक्त इन्फ्रा को संबंधित योग्यता प्रमाण पत्र संलग्न नहीं होने के कारण अयोग्य घोषित करने का निर्णय लिया गया तथा शेष 34 को Empanelled करने का निर्णय लिया गया, विवरणी निम्नवत है :-

S. No.	Name	Contact Number	Qualification	Rate for preparation of Mining Plan (per ha)	Rate details	Address
1	Dr. Rishi Rishi Singh	9430252222 8340260422	M.Sc. Geology	Rs. 10,000/- (including of Tax & GST)		Dr. R.N Singh, JMF-2-20, Sector-2, Block C, Flat 20, MID Flat, Bahadurpur Housing Colony, Patna -800026
3	Shive Prasad Mishra	7008167714	M.Sc. Geology	Rate slab attached	Rs. 10,000/- each Ha. Rs. 8,000/- for each subsequent additional Ha. (above rates are inclusive of 18% GST)	122 C, Aarcho, Road No. 5 A, Patliputra Colony, Patna -800013
2	Dr. Anand Kumar Singh	9431082238	Ph.D. (Geology)	Rs. 20,000/- GST will be charged as per Government rules		S/O-Udho Singh, C/O-Sri Indrajit Kumar Singh, A1 & Po. Nadeo, District-Siwan, Bihar-841245
4	Rakesh Kumar	8008802447	B.E. (Mining Engineer)	Rate slab attached	Minimum INR 25,000/- per mining plan upto 3 Hectare. For more than 3 Hectare the rate shall be increase @INR 10,000/- per Hectare.	Flat No. 87, Rajwara Building, Sihar More, Near Mehta Petrol Pump, Manipal, Gaya-823003
5	Dr. Abdul Mahesan	7870527274	Ph.D. in Geology	Rs. 8,000/- (inclusive of Taxes)		B-78, P. C. Colony, Jankarhagh, Patna -800020
6	Rishi Lata Mishra	9911537048 8705005622	M.Sc. (Geology)	Rs. 11,800/-	Rate per hectare @10,000/- + GST @18% (Rs. 1800) =Rs. 11,800/-	House No - 121, Nigrah Bazar, Kothari, Sikandarpur, Bhagalpur-812005
7	Ranjay Kumar	9431082286	M.Sc. (Geology)	Rs. 25,000/-	Negotiable	Waste-Santa Colony, Janakpur, Near-St. Karen's School, Gola Road, Dhanapur, Patna
8	Dr. Ravin Kumar Sinha	7266773218	B.E. (Mining)	Rs. 10,000/-		Dr. Ravin Kumar Sinha, A-122, Sanjay Gandhi Nagar, Kail Nandir, Road No.-6, Patna, Bihar

9	Dr. Ashish Kumar	9753389000	Ph.D(Geology)	As per approved rate of Govt. of Bihar		Hasth Vihar Naya Tale Line Bazar, Furrna, Bihar-854301									
10	SAB Sanku Alam	7093310996	M.Tech (Environmental Science & Engineering)	As per approved rate of Govt. of Bihar		Flat No-01 Ground Floor, hasth vilar, Naya Tale Near Shree Mandir, Line Bazar Furrna-854301									
11	Dr. Rakesh Kumar Singh	8085879680	Ph. D. (Coal Geology) M. Sc (Geology)	As per approved rate of Govt. of Bihar		Village- Chappaper, P.O. - Belawa (Pindra), District- Varanasi, (U.P), 221206									
12	Shashish Kumar Singh	9421498506	M.Sc./Applied Geology) M.Sc. Tech (Remote Sensing)	Rs. 25,000/-		B-8, Truchi Karmika Apartment, Sarsar Jambha Road, PO- Rajendra Nagar, District- Patna, Bihar-85									
13	Anand Lab Pvt. Ltd.	9972604624	B.E. Computer Science & Engineering	Rs. 31,850/-	Rate per Hectare @27,000/- + GST @18% (Rs. 4860) =Rs. 31,860/-	60, Suprabha Nagar, Kagnur-440033									
14	Shobhi Eminentech Pvt. Ltd.	9595773278	Required qualification not attached	Rate provided as per slab	a. For 0 to 2 Ha - Rs. 38,000/- b. For above 2.0 Ha to 5.0 Ha - Rs. 38,000/- c. Above 5.0 Ha - Rs. 28,000/- *All rates are per Hectare or part thereof. (Example - rate of 1.50 Ha shall be considered as 2.0 Ha	C/O Veena Gupta W/F Upendra Gupta, Shop No. 181, Plot No. 529, Golabara, Nawada Road, Near Kati Club, Aurangabad Bihar-824101									
15	Sens Geomatics Consultancy Pvt. Ltd.	8235835855	M. Sc (Geology)	Rs. 33,000/- inclusive of all GST & Taxes		Kali Mandi Road, Opposite Pura Tent Service, Near PS, Goranda, Ranchi-834002, Jharkhand									
16	Nishan S Bhagwat	9865840883	M.Sc.Tech(Applied Geology)	Rs. 10,510/-	Rate per Hectare @9,000/- + GST @18% (Rs. 1620) =Rs. 10,620/-	Mahavir Sadan, Opposite Jokers Valley, Baudh Vihar Colony, New Tola, Kumbhari-800026									
17	Edyeta India Pvt. Ltd.	7876620395	Required Qualification of the employees attached	Rate as per the slab provided	<table><tr><td></td><td>Per Ha. Rate upto 5 Ha</td><td>Per Ha. Rate more than 5 Ha</td></tr><tr><td>Rate upto 5 Ha</td><td>Rs. 15,000/-</td><td>Rs. 10,000/-</td></tr><tr><td>Rate more than 5 Ha</td><td>NA</td><td>Rs. 9,000/-</td></tr></table> * Rate is inclusive of GST and other applicable Taxes		Per Ha. Rate upto 5 Ha	Per Ha. Rate more than 5 Ha	Rate upto 5 Ha	Rs. 15,000/-	Rs. 10,000/-	Rate more than 5 Ha	NA	Rs. 9,000/-	C/O Kojimuni Pachak Shivaparam Road-2, Rajanpura Bakiy Road, Patna-800214
	Per Ha. Rate upto 5 Ha	Per Ha. Rate more than 5 Ha													
Rate upto 5 Ha	Rs. 15,000/-	Rs. 10,000/-													
Rate more than 5 Ha	NA	Rs. 9,000/-													
18	Ravi Shankar	7485890040	B.E. (Mining)	Rate as per the slab provided	(a) Rs. 50,000/- per mining plan upto 5 Ha (b) For above 5 Ha area rate will be charged 5000/- per Ha additionally extra and above to 5 Ha upto 25 Ha (c) Rs. 2,00,000/- per mining plan for area of 25 Ha and will be charged additionally Rs. 3000/- per Ha extra and above to 25 Ha upto 50 Ha. (d) Rs. 3,00,000/- per mining plan for area of 50 Ha and will be charged additionally Rs. 2000/- per Ha extra and above to 50 Ha upto 50 Ha.	Village- Nagain, P.O.- Deolra, P.S.- Gori, Dist.- Aurangabad (Bihar)-824114									
19	Indus Mining & Environment or Consultancy	7542949027	B.E. (Mining)	Rs. 2,000/- per Hectare (Each Block Mining Plan - Rs. 30,000/-)		Indus Mining And Environmental Consultancy, 201, 2nd Floor, Mangal Market, Raja Bazar, Bakiy Road, Patna-85									

20	Prash Kumar Singh	7542940227	B.E (Mining)	Rs. 2,000/- per Hectare (Each Block Mining Plan - Rs. 10,000/-)		201, 2nd Floor, Mangal Market, Raja Bazaar, Bailey Road, Patna-14
21	Md. Touhid Hossain Green Engineering & Environment Pvt. Ltd.	9534057112	M.Sc. (Geology)	Rs. 5,000/- (Excluding GST)		Greenera Mining & Environment Pvt. Ltd., 203 Mangal Market, Raja Bazar, Bailey Road Patna-800014
22	Prashant Kumar Srivastava	8827477306	B.E (Mining)	Rs. 8,000/-		71st No-101, Road No - 01, Boudh Nagar, Choriya Tandi, Forest Park, Patna-800001
23	Ashok Kumar Singh	8766859804	Mining Engineer	Rs. 4,000/-		C/o Shri Ram Prasad Singh, Mahalla - Mogal Kuan, P.O. - Sohanan, P.S. - Sohanan, Dist. - Nalanda, Bihar- 803118
24	Sandeep Kumar	8136343120	M.Sc. (Applied Geology)	Rs. 10,000/-		Anupama Bhawan, C/O Ravi Kishan, Sundar Nagar, Lufia Patti, Jagdeo Patti, Patna-800014 (Bihar)
25	United Exploration India Pvt. Ltd.	943226762 9334304760	Required Qualification of the employees attached	Rs. 5,200/- (inclusive all Taxes)		201, 2nd Floor, Sahel Rajendra Singh Complex, Anishabad, Patna-800002
26	Ravi Shrivastava Pvt. Ltd.	9432289539	Required Qualification of the employees attached	Rs. 5,000/- (inclusive all Taxes)		202, 2nd Floor, Mangal Market, Raja Bazar, Shree Patna-800014
27	Aspasia Service Pvt. Ltd.	9004387910	Required Qualification of the employees attached	Rs. 4,750/- (inclusive all Taxes)		401, 4th Floor, Mangal Market, Raja Bazar, Shree Patna-800014
28	M/s. Baghel Environment & Waste Management Pvt. Ltd.	2424042032	Qualifications of candidates are attached	As decided by the department of Mines & Geology, Govt. of Bihar		Baghel Environment & Waste Management Pvt. Ltd., 1st Floor, 27, Gura Sahay Lal Nagar, Road No. 2, Magistrate Colony, Ashiyana Nagar, Patna - 800025, Bihar
29	Greenia Lak Seng	9934452733	Qualifications of candidates are attached	Rs. 7,000/-	Note - 1. Minimum rate for a Sand Block INR 25,000/- 2. Maximum rate for a Sand Block - INR 60,000/- OR As decided by the Department of Mines & Geology, Govt. of Bihar	27, Gura Sahay Lal Nagar, Magistrate Colony, Ashiyana Nagar, Patna- 800025, Bihar
30	Pranav Environment & Management Pvt. Ltd.	8708251434	Qualifications of candidates are attached	Rs. 10,000/- (Excluding GST @18%)	Remarks - fee should not be less than 20,000 or more than 50,000 thousand for single block. (Excluded GST) OR As decided by the Department of Mines & Geology, Govt. of Bihar	105, Bhagwati Kunj apartment, Road No. - 10, Anand Vihar Colony, Kalyanpura, Patna (Bihar)- 800014
31	Institute of Environment and Eco Development Pvt. Ltd.	7004620817	Details Of Qualification Attached	Rs. 10,000/- (Excluding GST)	Rate will be negotiable as per direction from Department of Mines & Geology, Govt. of Bihar	Admin. Office - Ground Floor, Shyam Nagar Colony, Maurya Peth, Bailey Road, PO-G.V. College Patna-800014
32	Developmental Assistance Systems (India) Pvt. Ltd.	5224007470 9535915139	Details Of Qualification Attached	Rs. 2,750/- (inclusive all Taxes)		Prabha Niketan, road No.-13, Patel Nagar, Near Petrol Pump, Patna-800029

23	Indianna Pvt. Ltd.	9433042123	Schedule of Engineering (Mining)	Rate for each Quarter is enclosed	Enclosure A	H No-22, First Floor, J.D. Colony, S.K. Nagar, Patna-800001
24	MSI Samukt Saha	9236009669	Section of Architecture	Rs. 2,500/-		South of Madhulan Housing complex, Shalini Park, Ramkrishna -800020
25	Sapth Projects Pvt. Ltd.	9835877778	Details of qualification attached	Rs. 12,000/-		C/O Mr. Anil Kumar, plot No. 1-173, Road No. 23 Near Mahi Nakan, Sri Krishna Nagar, Patna -800001
26	Omraux Min-Tech Consultants	9400221084	Details of qualification attached	Rs. 12,000/-		501, 5th Floor, Apex Tower, Tank Road, Jalandhar-151015, Tel: 0141-2744309

3. प्राप्त सभी EOI की समीक्षा के उपरान्त विभागीय समिति द्वारा सर्वसम्मति से खनन योजना हेतु देय राशि प्रति खनन योजना अधिकतम ₹30,000/- (तीस हजार) ₹0 GST सहित (बाह्य माइनिंग प्लान कितने भी हेक्टेयर का हो) का मुगतान की अनुशंसा की गई।

4. समिति द्वारा उक्त न्यूनतम दर को स्वीकृत करते हुए उक्त न्यूनतम दर पर अनिलकुमि की अभिव्यक्ति आमंत्रण में शामिल वैसे प्रतिष्ठान, जो वांछित योग्यता को पूरा करते हो तथा जिनका वर्तमान में पटना या बिहार राज्यान्तर्गत अन्य जिलों में कार्यालय संचालित है ऐसे प्रतिष्ठान को तत्काल प्रमाण से empanelled करने की अनुशंसा की जाती है।

शेष अन्य एजेंसी/व्यक्ति अगर भविष्य में बिहार राज्यान्तर्गत कार्यालय खोलने संबंधी साक्ष्य/दस्तावेज प्रस्तुत करते है तो उन्हें भी भविष्य में उक्त दर पर लघु खनिजों के खनन योजना तैयार करने हेतु RQP के रूप में empanelled करने की अनुशंसा की जाती है।

5. Empanelled एजेंसियों को अपने दस्तावेजों का सत्यापन विभागीय समिति से कराना आवश्यक होगा।

ह0/-
सहायक निदेशक,
सदरय

ह0/-
सहायक निदेशक,
सदरय

ह0/-
अवर सचिव,
सदरय

ह0/-
उप निदेशक,
पटना अंचल, पटना
सदरय

ह0/-
उप निदेशक (गु0),
सदरय

ह0/-
अवर सचिव-सह-
निदेशक,
अध्यक्ष

ह0/-

सरकार के अवर सचिव

ज्ञापक:-...../एम0, दिनांक:-.....

प्रतिनिधि- सभी समाहर्ता को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह0/-

सरकार के अवर सचिव

ज्ञापक:-...../एम0, दिनांक:-.....

प्रतिनिधि- सभी उप निदेशक/सभी सहायक निदेशक/सभी खनिज विकास पदाधिकारी/
सभी खान निरीक्षक को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह0/-

सरकार के अवर सचिव

P.T.O.

साधारण- 3825 / एम० दिनांक- 07/11/19

प्रतिनिधि-माननीय मंत्री के आप्त सचिव/प्रधान सचिव के प्रधान आप्त सचिव/निदेशक
कोषांग/उप निदेशक (मु०)/सहायक निदेशक (मु०)/खनिज विकास
पदाधिकारी (मु०) को सूचनाएँ एवं आवश्यक कार्यवाई हेतु प्रेषित।

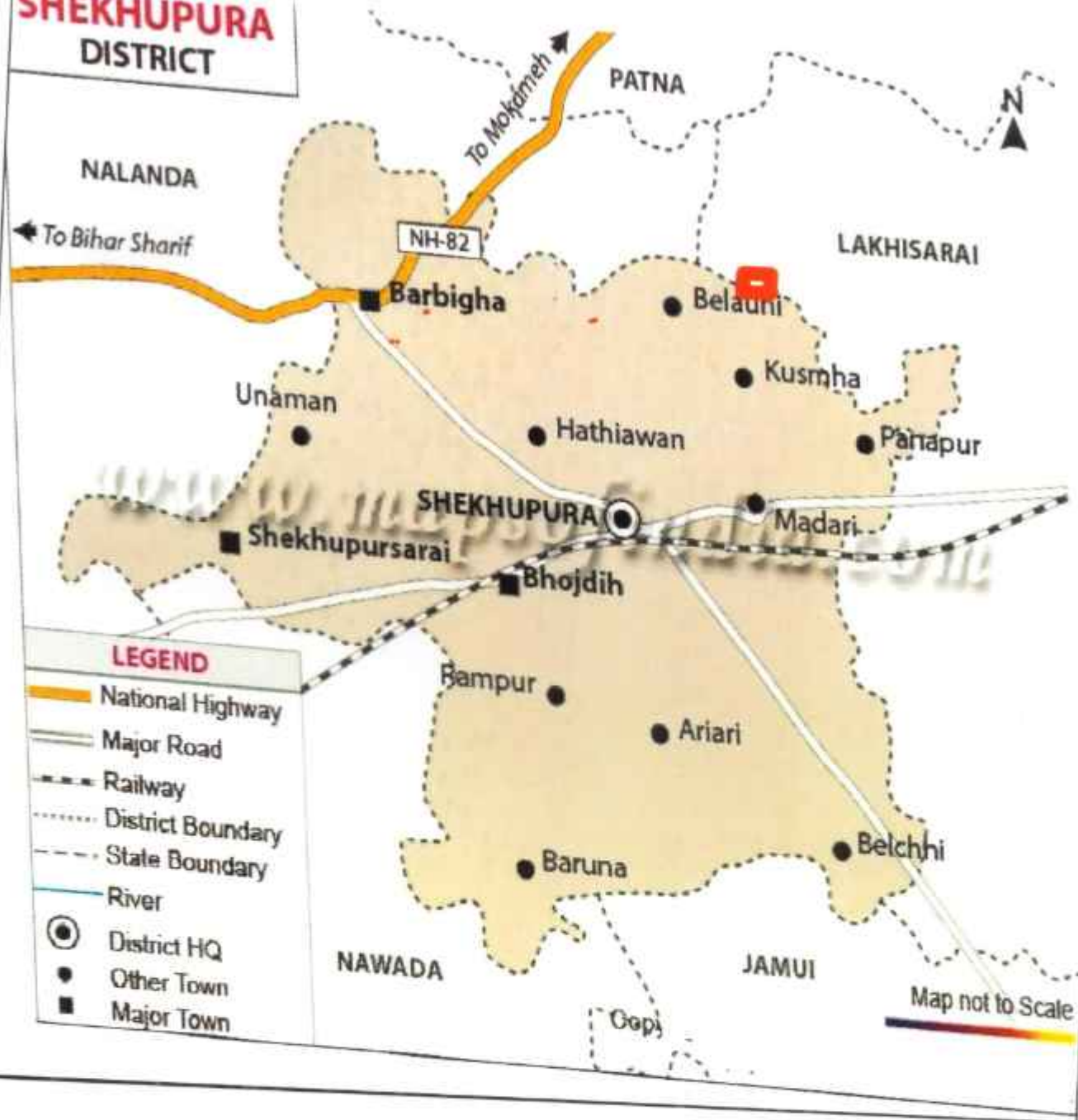
सिद्धि

21/11/19

सरकार के अवर सचिव

PLATES

SHEKHUPURA DISTRICT



Legend

BOUNDARY OF QUARY LEASE

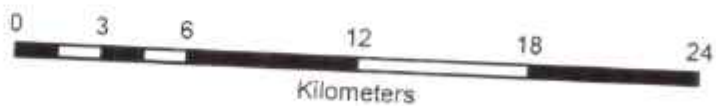
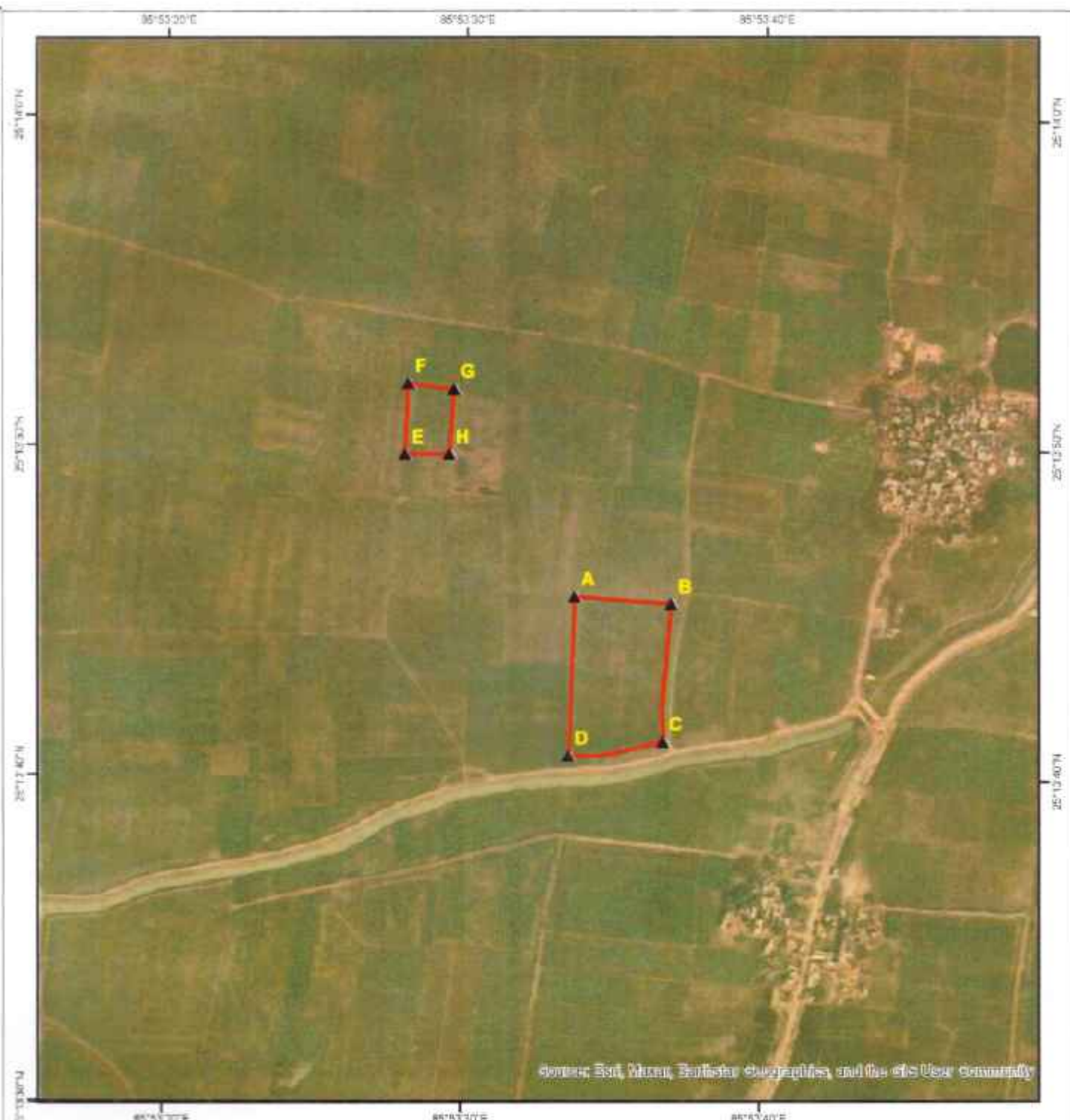


PLATE02- LOCATION PLAN

M/S Haro It Udyog	RQP
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batara)	 Dr. ASHISH SHARMA RQP
Kkata No- 32, 124, 124	
Khasra No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza-Sahra Batara, ANCHAL -Ghat Kusumbha, DISTRICT- Sheikhpura, Bihar	
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MALUA- Mehush, P.S. Mehush, DIST- Sheikhpura, BIHAR	

Dr. Ashish Sharma
 Phd-Geology
 Approved RQP Dept. of Mines & Geology
 Govt. of Bihar Approved RQP List, SI No.-9



Legend

▲ BOUNDARY PILLAR

□ BOUNDARY OF QUARRY LEASE

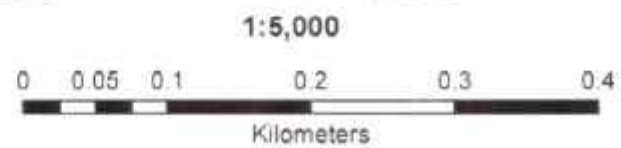
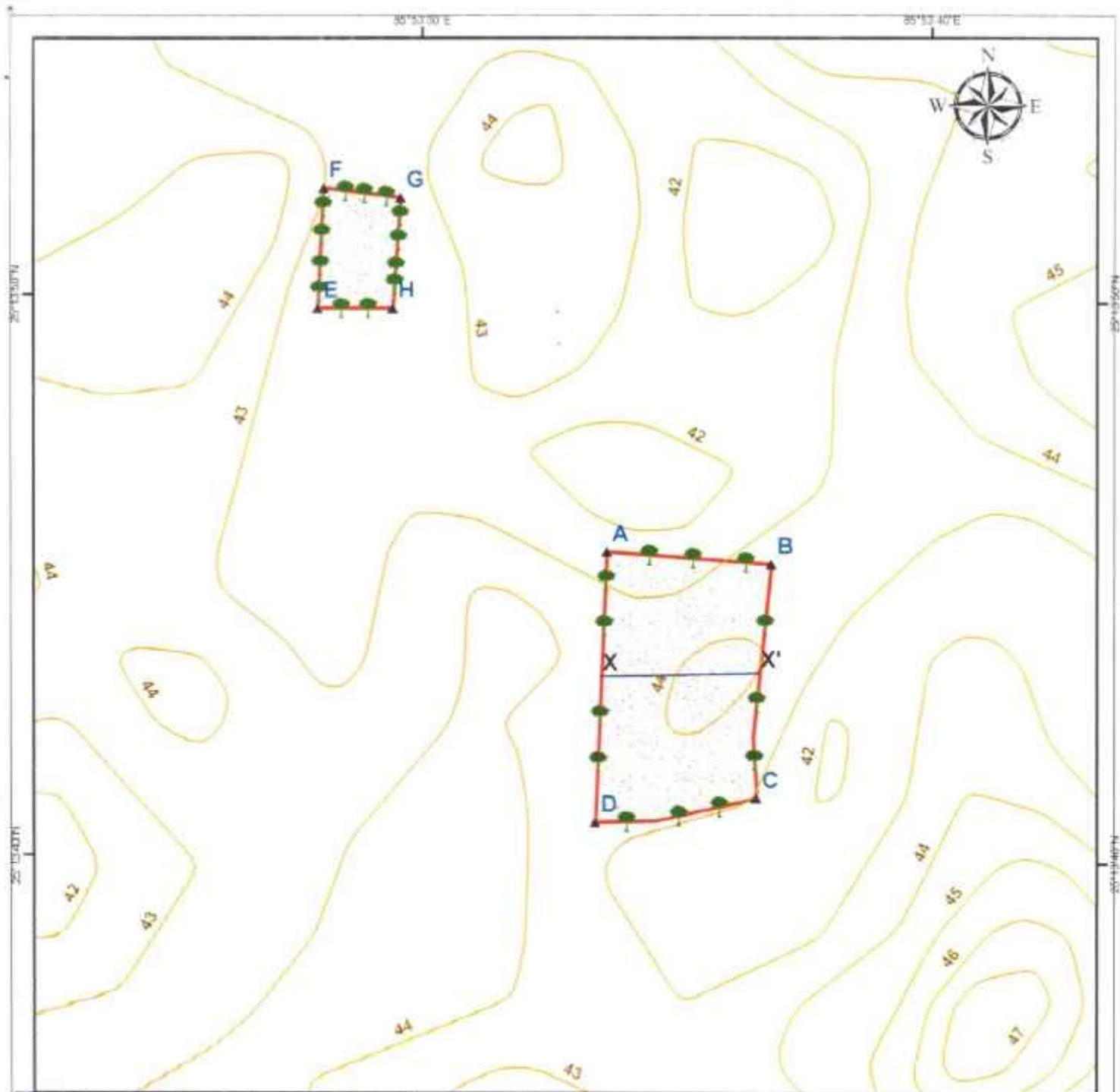


PLATE03- GOOGLE PLAN

M/S Hero It Udyog	
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora)	RQP
Khata No- 32, 124, 124	 Dr. ASHISH SHARMA RQP
Khasra No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza- Sahra Batora, ANCHAL - Ghat Kusumbha, DISTRICT- Sheikhpura, Bihar	
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MAUZA: - Mehush, P. S: Mehush, DIST- Sheikhpura, BIHAR	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
B	25° 13' 45.313" N	85° 53' 37.000" E
C	25° 13' 41.126" N	85° 53' 36.742" E
D	25° 13' 40.674" N	85° 53' 33.586" E
E	25° 13' 49.709" N	85° 53' 28.047" E
F	25° 13' 51.943" N	85° 53' 28.141" E
G	25° 13' 51.785" N	85° 53' 29.666" E
H	25° 13' 49.810" N	85° 53' 29.525" E

Dr. Ashish Sharma
 Approved RQP Dept. of Mining & Geology
 Govt. of Bihar Approved RQP



Legend	
	PLANTATION
	SECTION
	BOUNDARY PILLAR
	SECTION LINE
	CONTOUR
	BOUNDARY OF QUARRY LEASE
	GAZ



PLATE04- SURFACE AND GEOLOGICAL PLAN

M/S Hero It Udyog	RQP. Dr. ASHISH SHARMA RQP Approved RQP Dept. of Mines & Geology Govt. of Bihar
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora)	
Khata No- 32, 124, 124	
Khazra No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza-Sahra Batora, ANCHAL-Ghat Kusumbha, DISTRICT-Sheikhpura, Bihar	Approved RQP Dept. of Mines & Geology Govt. of Bihar Approved RQP Dept. of Mines & Geology Govt. of Bihar
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MAUZA- Mehush,	
P.S. Mehush, DIST- Sheikhpura, BIHAR.	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
B	25° 13' 45.313" N	85° 53' 37.000" E
C	25° 13' 41.126" N	85° 53' 36.742" E
D	25° 13' 40.674" N	85° 53' 33.586" E
E	25° 13' 49.799" N	85° 53' 28.047" E
F	25° 13' 51.943" N	85° 53' 28.141" E
G	25° 13' 51.785" N	85° 53' 29.666" E
H	25° 13' 49.810" N	85° 53' 29.525" E



- Legend**
- ▲ BOUNDARY PILLAR
 - SECTION LINE
 - CONTOUR
 - 1M BARRIER ZONE
 - BOUNDARY OF QUARY LEASE
 - Soil



PLATE05- YEARLY PRODUCTION PLAN

M/S Hero It Udyog	RQP  Dr. ASHISH SHARMA RQP
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora)	
Khata No- 32, 124, 124	
Khata No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza-Sahra Batora, ANCHAL -Ghat Kusumbha, DISTRICT- Sheikhpura, Bihar	
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MAUZA:- Mehush, P.S: Mehush, DIST:-Sheikhpura, BIHAR	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
B	25° 13' 45.313" N	85° 53' 37.000" E
C	25° 13' 41.126" N	85° 53' 36.742" E
D	25° 13' 40.674" N	85° 53' 33.586" E
E	25° 13' 49.799" N	85° 53' 28.047" E
F	25° 13' 51.943" N	85° 53' 28.141" E
G	25° 13' 51.785" N	85° 53' 29.666" E
H	25° 13' 49.810" N	85° 53' 29.525" E

Dr. Ashish Sharma
RQP
Approved RQP Dept. of Mines & Geology
Govt. of Bihar Approved RQP List, Sl No. 9



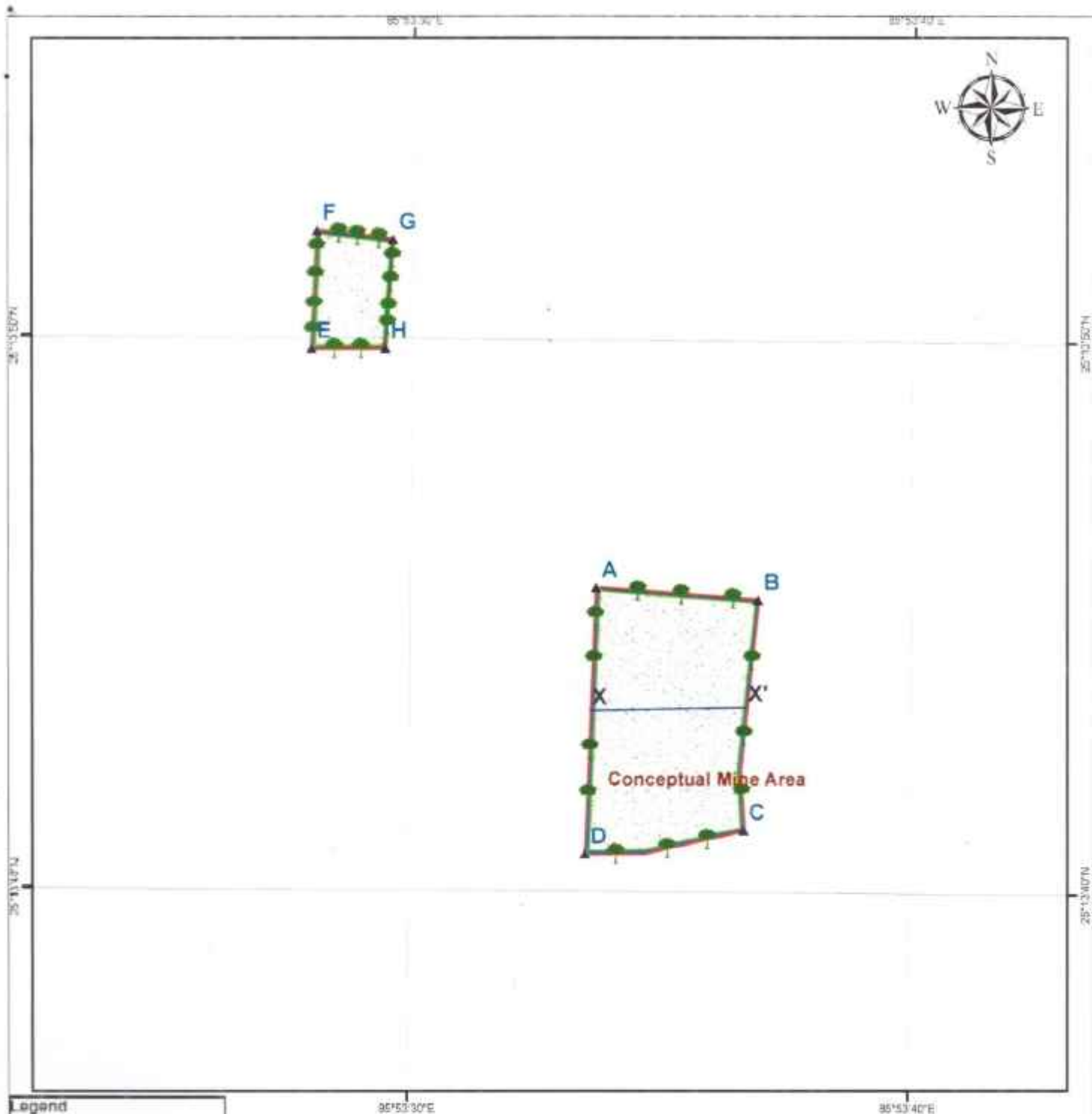
- Legend**
- SECTION
 - ▲ BOUNDARY PILLAR
 - SECTION LINE
 - CONTOUR
 - 🌳 PLANTATION
 - SOIL BENCH
 - 1M BARRIER ZONE
 - BOUNDARY OF QUARRY LEASE
 - Soil
 - Topsoil Plan



PLATE06- PROGRESSIVE MINE CLOSURE PLAN

M/S Hero R Udyog	RQP  Dr. ASHISH SHARMA RQP
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora)	
Khata No- 32, 124, 124	
Khata No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza-Sahra Batora, ANCHAL -Ghat Kusumbha, DISTRICT- Sheikhpura, Bihar	Approved RQP Dept. of Mines & Geology Govt. of Bihar Approved RQP List, Sl No- 1
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh,	
MAUZA:- Mehush,	
P.S:- Mehush, DIST:-Sheikhpura, BIHAR	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
B	25° 13' 45.313" N	85° 53' 37.000" E
C	25° 13' 41.126" N	85° 53' 36.742" E
D	25° 13' 40.674" N	85° 53' 33.586" E
E	25° 13' 49.799" N	85° 53' 28.047" E
F	25° 13' 51.943" N	85° 53' 28.141" E
G	25° 13' 51.785" N	85° 53' 29.666" E
H	25° 13' 49.810" N	85° 53' 29.525" E



Legend	
•	SECTION
●	PLANTATION
▲	BOUNDARY PILLAR
—	SECTION LINE
—	SOIL BENCH
—	1M BARRIER ZONE
—	BOUNDARY OF QUARTY LEASE
—	Soil

PLATE07- CONCEPTUAL PLAN

M/S Hero It Udyog	
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora)	RQP
Khata No- 32, 124, 124	 Dr. ASHISH SHARMA RQP
Khata No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza-Sahra Batora, ANCHAL -Ghat Kusumbha, DISTRICT- Sheikhpura, Bihar	
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MAUZA - Mehush, P.S: Mehush, DIST. -Sheikhpura, BIHAR.	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
B	25° 13' 45.313" N	85° 53' 37.000" E
C	25° 13' 41.126" N	85° 53' 36.742" E
D	25° 13' 40.674" N	85° 53' 33.586" E
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F	25° 13' 51.943" N	85° 53' 28.141" E
G	25° 13' 51.785" N	85° 53' 29.666" E
H	25° 13' 49.810" N	85° 53' 29.525" E

Dr. Ashish Sharma
 P.H. Geology
 Approved RQP Dept. of Mines & Geology
 Govt. of Bihar Approved RQP List, Sl No-9

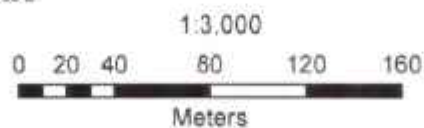
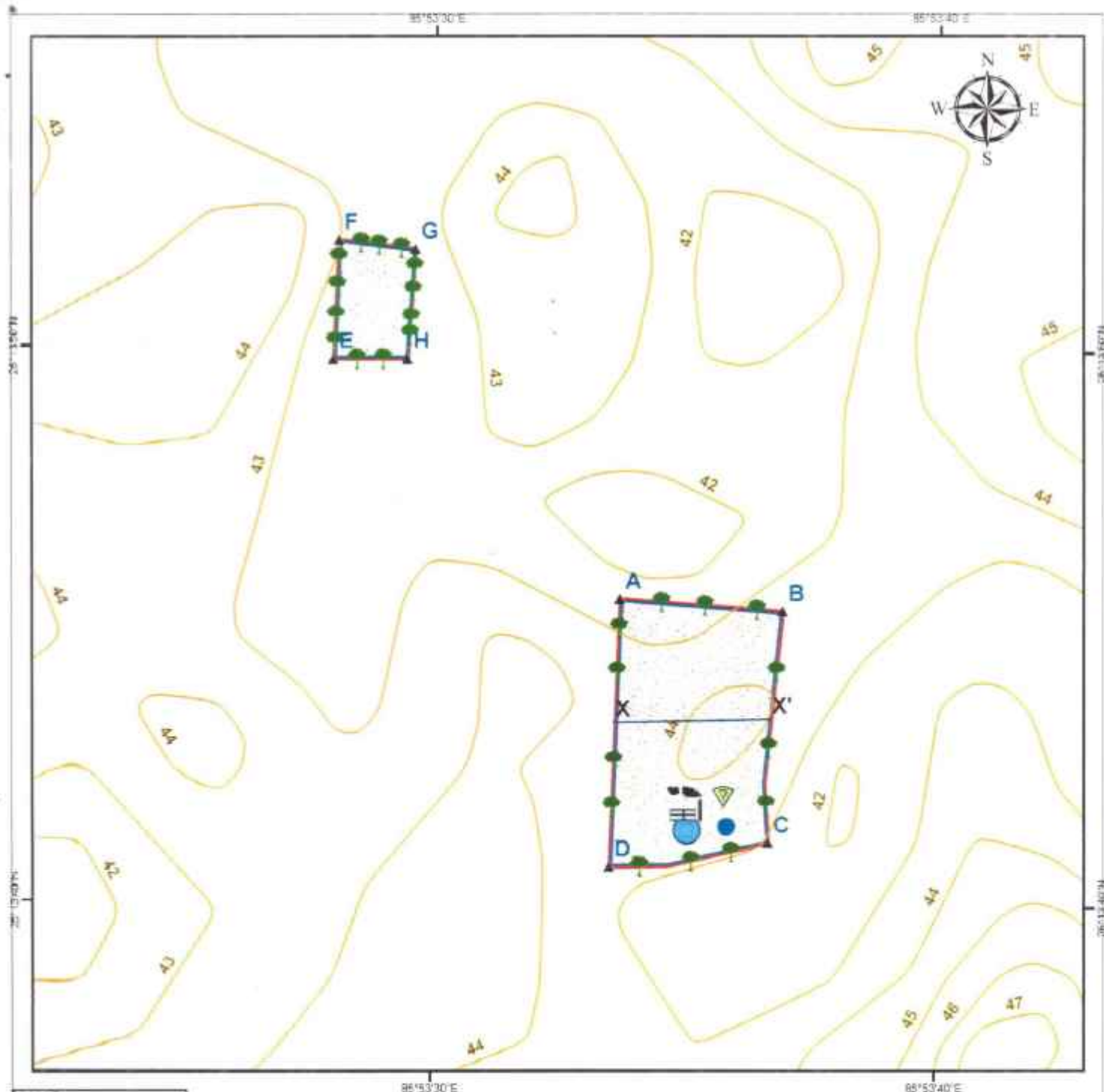
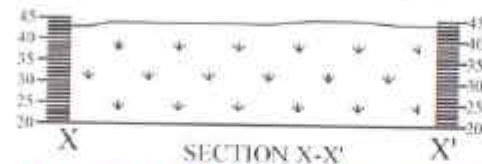


PLATE08- POLLUTION MITIGATION PLAN

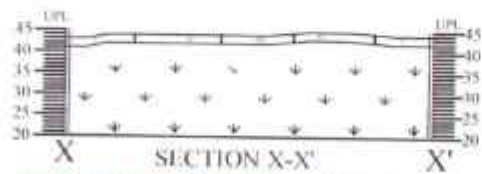
M/S. HERO IT UDVOG NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora) Khata No- 22, 124, 134 Khata No- 1918, 523, 528 Area- 3.082 Acre or 1.489 Ha Mouza- Sahra Batora, ANGHAL- Ghos Kumbha, DISTRICT- Sheikhpura, Bihar Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MAUZA - Metush, P.S- Metush, DIST- Sheikhpura, BIHAR	
 DR. ASHISH SHARMA RQP	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
B	25° 13' 45.313" N	85° 53' 37.000" E
C	25° 13' 41.126" N	85° 53' 36.742" E
D	25° 13' 40.674" N	85° 53' 33.586" E
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H	25° 13' 49.810" N	85° 53' 29.525" E

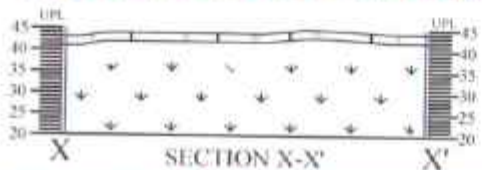
Dr. Ashish Sharma
 PhD-Geology
 Approved RQP Dept. of Mines & Geology
 Govt. of Bihar Approved RQP List, 2019-20



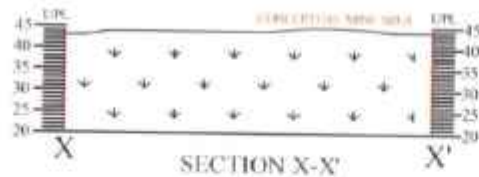
SURFACE AND GEOLOGICAL PLAN



YEARLY PRODUCTION PLAN



PROGRESSIVE MINE CLOSURE PLAN



CONCEPTUAL PLAN

Sr. No.	PARTICULARS	SYMBOL
1	BOUNDARY OF QUARRY LEASE	
2	1 M BARRIER ZONE	
3	SECTION LINE	
4	SOIL	

PLATE 09- CROSS SECTION PLAN

M/S Hero It Udyog

NAME OF PROJECT - PROPOSED MINING FOR Brick Project
(Sahra Batora)

Khata No- 32, 124, 124

Khasra No- 1918, 523, 523

Area- 3.680 Acre or 1.489 Ha

Mouza-Sahra Batora, ANCHAL -Ghat Kusumbha, DISTRICT-
Sheikhpura, Bihar

Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh,
MAUZA:- Mehush,

P.S: Mehush, DIST:- Sheikhpura, BIHAR

RQP

Dr. Ashish Sharma

Dr. Ashish Sharma
PhD-Geology
Approved RQP Dept. of Mines & Geology
Govt. of Bihar Approved RQP List, SI No.-8



Legend	
	Approach_Road
	Brick_Clin_Location
	Buffer500
	1M_BARRIER_ZONE
	BOUNDARY OF QUARY LEASE



PLATE10 TRANSPORTATION & BUFFER PLAN

M/S Hero It Udyog	 Dr. ASHISH SHARMA RQP
NAME OF PROJECT - PROPOSED MINING FOR Brick Project (Sahra Batora)	
Khata No- 32, 124, 124	
Khasra No- 1918, 523, 523	
Area- 3.680 Acre or 1.489 Ha	
Mouza-Sahra Batora, ANCHAL-Ghat Kusumbha, DISTRICT-Sheikhpura, Bihar	
Applicant- MR. Ghanshyam Kumar S/o Shaligram Singh, MAUZA:- Mehush,	
P.S. Mehush, DIST:-Sheikhpura, BIHAR	

PILLAR COORDINATES		
Pillar No	Latitude	Longitude
A	25° 13' 45.513" N	85° 53' 33.769" E
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H	25° 13' 49.810" N	85° 53' 29.525" E

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 Geologist
 Approved RQP Dept. of Mines
 Govt. of Bihar Approved RQP