

PRE-FEASIBILITY REPORT

FOR

PROPOSED BRICK EARTH MINING PROJECT LOCATED AT MAUZA-SAHRA BATORA, ANCHAL-GHAT KUSUMBHA, DIST-SHEIKHPURA, BIHAR OVER AN AREA OF 1.489 HA. HAVING A PRODUCTION CAPACITY OF 5038 Cum/Annum

PROJECT PROPONENT

M/S HERO INT UDYOG

PROPRIETOR: MR. GHANSHYAM KUMAR

ADDRESS: MEHUS, ANCHAL-MEHUS, DIST.-SHEIKHPURA, BIHAR

Category 'B2' as per Project or Activity 1(a).

PREPARED BY:

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PROPOSED BRICK EARTH MINING PROJECT (1.489 HA.)

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PREFEASIBILITY REPORT

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The proposed Brick earth mining project located at Khata No: 32,124,124, Khasra No.: 1918,523,523. Mauja-Sahra Batora, Anchal- Ghat Kusumbha, Dist- Sheikhpura, Bihar, covering a total area of 1.489 Ha (3.680 Acres). The mining lease has been granted to **M/s Hero Int Udyog**, at Mauja-Mehus, Anchal-Mehus, Dist- Sheikhpura, Bihar - 811102. The Mine Plan for the project has been duly approved by the District Mining Office, Sheikhpura, Bihar, under Letter No. 262, dated 11.04.2025 (enclosed as Annexure-1). The total estimated project cost is Rs. 744500 INR.

TABLE 1.2 SALIENT FEATURE OF THE PROJECT

S. No.	Particular	Detail							
1.	Project Name	Proposed Brick earth Mining Project Located Mauja-Sahra Batora, Anchal- Ghat Kusumbha, Dist- Sheikhpura, Bihar, covering a total area of 1.489 Ha (3.680 Acres). Having A Production Capacity of 5038 Cum/Annum.							
2.	Location of mine	Mauja-Sahra Batora, Anchal- Ghat Kusumbha, Dist- Sheikhpura, Bihar.							
		Mauza		Khata no.		Khasra no.		Area (Ha.)	
		Sahra Batora		32,124,124		1918,523,523		1.489	
3.	Site co-ordinate	Khata No.	Khasra No.	Mauza	Point	Latitude		Longitude	
		32,124,124	1918,523,523	Sahra Batora	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°53'29.666"E	
					G	25°13'51.785"N		85°53'29.141"E	
					H	25°13'49.810"N		85°53'29.525"E	
5.	Land use pattern	Non forest Barren land							
6.	Minerals of mine	Brick Earth							
7.	Total Geological reserves	29600 m ³							

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8.	Total Mineable reserves	27989 m ³
9.	Proposed production capacity	5038 cum/annum
10.	Method of mining	Open Cast Manual Method
11.	Man power requirement	40 persons
12.	No of working days	250 Days
13.	Water Demand	7.61 KLD
14.	Sources of water	Tankers
15.	Nearest Village	Ishant Village about 1.0 Km in North West Direction.
16.	Nearest School	SPS public school is about 1.0 km in west direction.
17.	Nearest College	S.K.R College is about 1.28 Km in west direction.
18.	Nearest Hospital	Referral hospital barbiga, Sheikhpura is about 15 km in west north direction.
19.	Nearest River	Tati River is about 5 Km in south direction.
20.	National Highway	NH 333A is about 10 km in west direction.
21.	Nearest Railway Station	Barbiga Railway Station is 1.69 km towards North direction.
22.	Nearest Airport	Jayprakash Narayan International Airport, Patna is about 75.35 km in NW direction.
23.	Nearest Town	Barbiga is about 1.71 Km in north west direction.
24.	Seismic Zone	Seismic Zone IV
25.	Project cost	Rs 744500 INR
26.	EMP Cost	Capital cost: Rs 0.65 Lakhs Recurring cost: Rs 0.40 Lakhs

1.2 PROPOSED PLANNING

Mining method - Open cast Manual method

Project cost – RS 744500 INR

Proposed production capacity – 5038 cum/Annum

1.3 CONCLUSION

Soil serves as a fundamental raw material in all types of construction and infrastructure projects, playing a crucial role in various developmental activities. The proposed Brick Earth mining project will contribute significantly to the construction sector by ensuring

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a consistent supply of soil for infrastructure development in the region. Additionally, the project will generate employment opportunities for local labourers, particularly in rural areas, thereby enhancing the livelihoods of nearby villagers and supporting economic growth in the region.

2. INTRODUCTION OF THE PROJECT/ BACKGROUND INFORMATION

2.1 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

The proposed Brick earth mining project located at Khata No: 32,124,124, Khasra No.: 1918,523,523. Mauja-Sahra Batora, Anchal- Ghat Kusumbha, Dist- Sheikhpura, Bihar, covering a total area of 1.489 Ha (3.680 Acres). The mining lease has been granted to M/s Hero Int Udyog, at Mauja-Mehus, Anchal-Mehus, Dist- Sheikhpura, Bihar - 811102.

2.2 BRIEF INFORMATION ABOUT THE PROJECT

The land area is 1.489 Ha (3.680 Acres). The total mineable reserve is 27989 cum of soil.

2.3 NEED FOR THE PROJECT AND ITS IMPORTANCE TO THE COUNTRY OR REGION

Soil is used as a raw material in all type of construction and infrastructure project. The need of Brick Earth is compulsory for all types of construction. Proposed Brick Earth Mining project will contribute in enhancing the construction activity in the area. Mine will provide employments to the local labour in rural area, thus the villagers of nearby villages have more employment opportunities.

2.4 DEMANDS-SUPPLY GAP

The mined-out Brick Earth will be used for making kachcha bricks i.e. captive consumption which will be subjected to firing in the brick kiln.

2.5 IMPORTS VS. INDIGENOUS PRODUCTION

Not applicable

2.6 EXPORT POSSIBILITY

Not applicable

2.7 DOMESTIC/ EXPORT MARKETS

Domestic Market

The mined-out Brick Earth will be used for making kachcha bricks i.e. captive consumption which will be subjected to firing in the brick kiln.

Export Market

The mined-out Brick Earth will be used for making kachcha bricks i.e. captive consumption which will be subjected to firing in the brick kiln.

2.8 EMPLOYMENT GENERATION

The manpower details are given in the Table 2.1.

TABLE 2.1 MANPOWER DETAIL

S. No.	Designation	No. of Person
1.	Mining Mate	2
2.	Chpwkidars	2
3.	Semi Skilled Labours	4
4.	Skilled Labours	32
Total		40

3. PROJECT DESCRIPTION

3.1 TYPE OF PROJECT INCLUDING INTERLINKED AND INTERDEPENDENT PROJECTS, IF ANY.

The project involves Brick Earth mining and is an independent undertaking, not interlinked with any other project. As per the EIA Notification 2006 and its subsequent amendments, this mining project falls under Category “B2” as per Project or Activity 1(a).

3.2 LOCATION

The proposed Brick earth mining project located at Khata No: 32,124,124, Khasra No.: 1918,523,523. Mauja-Sahra Batora, Anchal- Ghat Kusumbha, Dist- Sheikhpura, Bihar, covering a total area of 1.489 Ha (3.680 Acres). The mining lease has been granted to M/s Hero Int Udyog, at Mauja-Mehus, Anchal-Mehus, Dist- Sheikhpura, Bihar - 811102.

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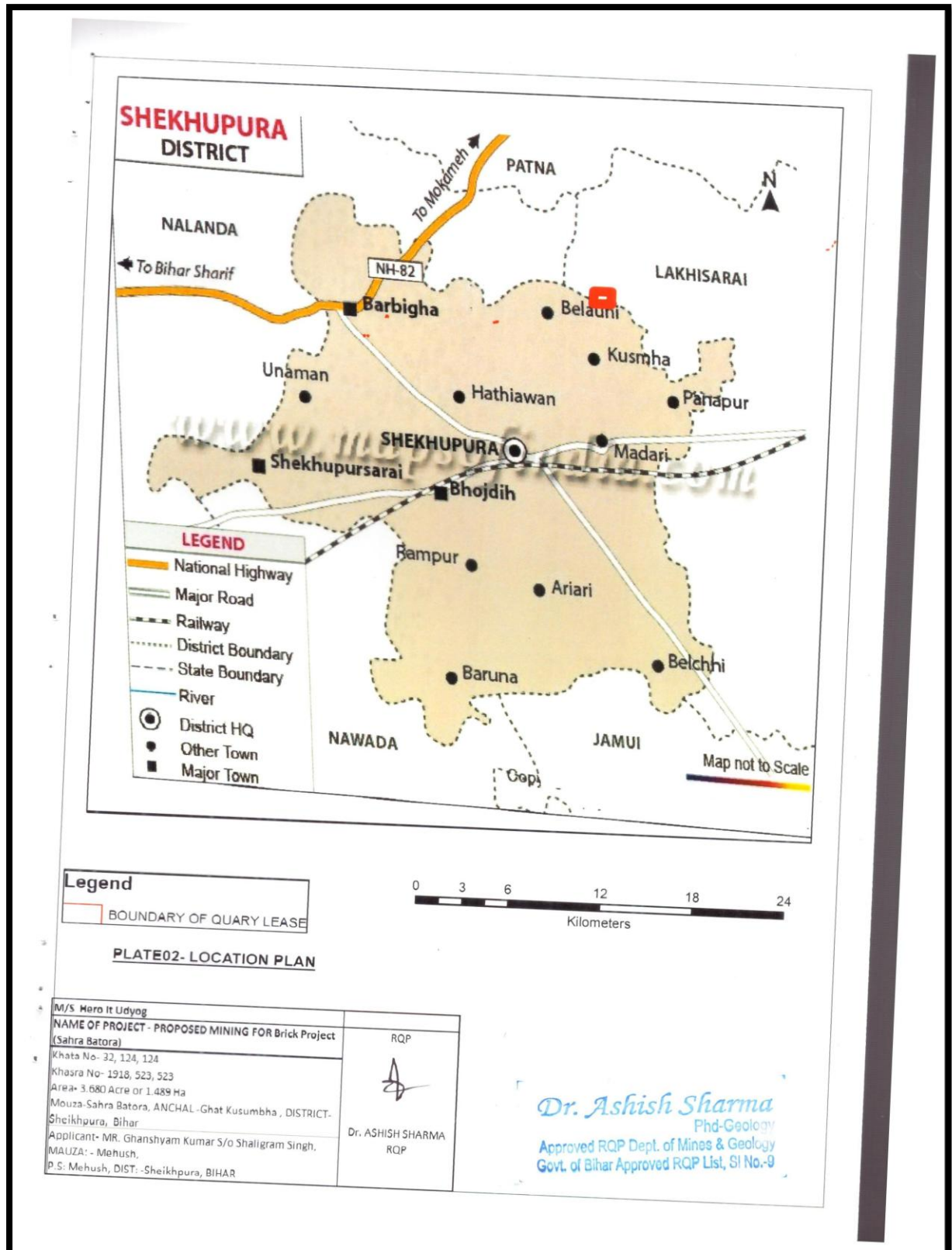


FIGURE 3.1: LOCATION PLAN

PROPOSED BRICK EARTH MINING PROJECT (1.489 HA.)

Site co-ordinate

Khata No.	Khasra No.	Mauza	Point	Latitude	Longitude
32,124, 124	1918, 523, 523	Sahra Batora	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
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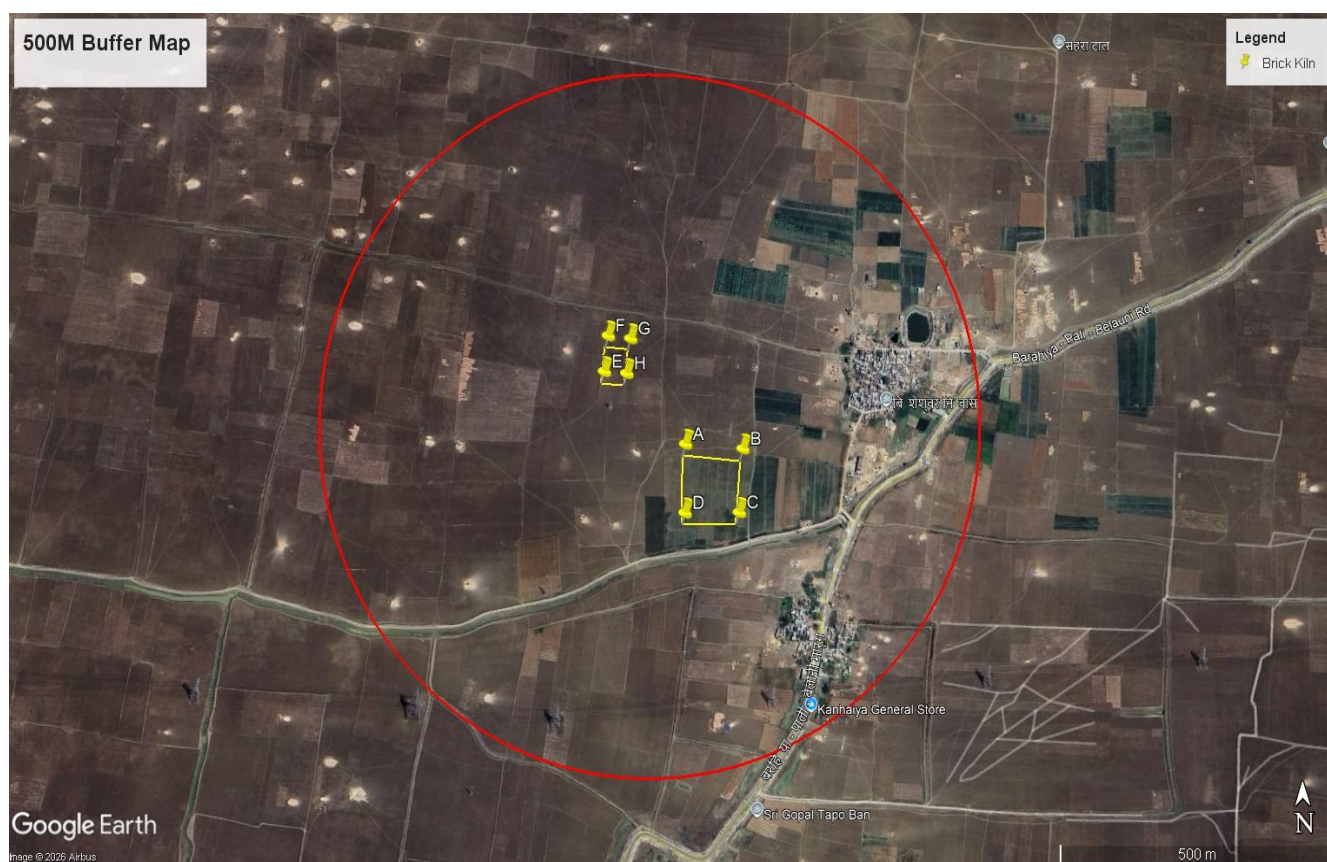


FIGURE 3.2: 500M BUFFER MAP

3.3 DETAIL OF ALTERNATE SITES

Not Applicable as project is site specific.

3.4 SIZE OR MAGNITUDE OF OPERATION

The maximum proposed production is 5038 cum/annum, covering a total mine lease area of 1.489 Ha. The extraction depth is planned to reach a maximum of 2.0 meters. A 0.15-meter layer of topsoil will be carefully scraped and stored on a designated berm or an earmarked area. Upon completion of mining activities, the stored topsoil will be redistributed over the mining pit to restore land fertility or utilized for plantation purposes, ensuring environmental sustainability.

3.5 PROJECT DESCRIPTION WITH PROCESS DETAILS

The proposed clay the proposed mining will be opencast and semi-mechanized, with a preference for manual mining using hand tools such as shovels, spades, sieves, etc. Mining activities will be confined to the applied field, as specified in the land documents, ensuring that nearby plots remain unaffected.

3.5.1 METHODOLOGY OF MINING / PROPOSED MINING METHOD

The proposed clay the proposed mining will be opencast and semi-mechanized, with a preference for manual mining using hand tools such as shovels, spades, sieves, etc. Mining activities will be confined to the applied field, as specified in the land documents, ensuring that nearby plots remain unaffected.

- The following geo-scientific methods are proposed to carry out the mining activity:
- Mining will be restricted to the applied fields up to a maximum depth of 2 m from the surface.
- The mining shall be done during daytime only.
- Only 250 working days in a year have been assumed for calculation purpose.
- Before start mining the top fertile soil of each proposed mining field (up to 15-centimeter depth) shall be scraped & stacked on the berm or any earmarked place which will be spread over the mining pit, after completing mining activity, Thus

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the fertility of land will be restored or used beside the road where plantation is to be done.

- The width and height of final benches shall be 1m x 0.75 m.
- A ramp/connecting path shall be developed to join next level.
- There will be No drilling and blasting.
- The operation will remain manual, using tools like shovel, spade, sieve etc.
- The water required for casting for bricks will be arranged near the mining site and only casted
- bricks will be carried to kiln through cart/tractor or by hand loads. The water will be required either the drinking proposed or for casting of bricks.
- 40 laborers will be required for the proposed project.
- Soil mining shall strictly be undertaken as per Bihar Minerals (Concession, Prevention of Illegal Mining, Transportation & Storage) Rules, 2019, M.C. Rules 1960, MMRD Act 1957& permissions obtained from District Administration /Mining Department.

3.5.2 PRODUCTION PLANNING

- Mining excavation will be started after obtaining Mining approval from District Mining Office, Sheikhpura, Bihar. Though application is being applied for 5 years.

3.5.3 WORKING DEPTH (BELOW GROUND LEVEL)

Mining will be carried out only up to maximum depth of 02-05 mbgl.

3.6 RAW MATERIAL REQUIRED ALONG WITH ESTIMATED QUANTITY, LIKELY SOURCE, MARKETING AREA OF FINAL PRODUCT/S, MODE OF TRANSPORT OF RAW MATERIAL AND FINISHED PRODUCT

No raw material will be required.

3.7 RESOURCE OPTIMIZATION/ RECYCLING AND REUSE

Not envisaged

3.8 AVAILABILITY OF WATER ITS SOURCE, ENERGY/ POWER REQUIREMENT AND SOURCE

The water requirement for the proposed project will be minimal, as operations will be carried out manually. Water will primarily be needed for drinking purposes. It is anticipated that a maximum of 40 labourers will be employed for the project, with a total water requirement of 7.61 KLD. Out of this, 2.5 KLD will be allocated for drinking water for the workers, sourced from a tanker or nearby water sources. 3 KLD will be used for dust suppression on the approach road, & 2.11 KLD used for clay Molding as well as utilized for irrigation and plantation purposes. As all activities will be manual, no power will be required, and operations will be conducted during the daytime.

3.9 QUANTITY OF WASTES TO BE GENERATED (LIQUID AND SOLID) AND SCHEME FOR THEIR MANAGEMENT/DISPOSAL.

The mining activity is being carried out in proposed fields. Upper 0.15 m thick layer of soil has been considered as top soil which will be kept on the berm safely.

The total generated top soil will be scraped out first. This will be dumped temporarily on the berm or earmarked place near mine working and after removing soil the top soil will be spread over the mined-out area to restore the proposed fields or used beside the place where plantation is to be done. No waste will be generated during mining.

4. SITE ANALYSIS

4.1 CONNECTIVITY

Connectivity details are given below in Table 4.1

TABLE 4.1: CONNECTIVITY DETAILS FROM PROPOSED PROJECT SITE

Nearest Railway Station	Barbigha RailWay Station is 1.69 km towards North direction.
Nearest Airport	Jayprakash Narayan International Airport, Patna is about 75.35 km in NW direction.
Nearest Highway	NH 333A is about 10 km in west direction.

4.2 LAND FORM, LAND USE AND LAND OWNERSHIP

4.2.1 LAND FORM

The leased mine area is non-Forest land.

4.2.2 LAND USE

The existing land use pattern of the area is Barren land.

4.2.3 LAND OWNERSHIP

Total 1.489 ha. land has been obtained on lease by M/s Hero Int Udyog for 5-year mining period. Land document is enclosed as **Annexure II**.

TABLE 4.2: LAND DETAILS

Mauza	Khata no.	Khasra no.	Area (Ha.)
Sahra Batora	32,124,124	1918,523,523	1.489

4.3 TOPOGRAPHY

Sheikhpura Distirct is situated in the southern part of the Gangetic belt of Central Bihar. The lands are mainly plain except some patches of scattered small hills. The hilly region start from southern parts of the district and land is sloping towards north eastern side. Because of low lying area in some parts of the north eastern sides water starts accumulating during rainy season leading towards water logging. This area is called TAL area.

4.3.1 GEOMORPHOLOGY

Sheikhpura district is part of Mid-Ganga basin, in the southern margin of the Gangetic plains. The district mainly represents flat alluvium terrain except some hilly area in the middle part. The maximum elevation is 187.5 m above MSL. The general trend of structural hill is E-W direction. The middle part covering the hilly area and south west area is covered by pediplanes. The rest part of the Sheikhpura district is mainly covered by alluviums. Small part in north in Ghatkusumba block is older alluvium other part is of younger alluvium made by rivers of the districts flowing south to north/north east.

4.4 EXISTING LAND USE PATTERN (AGRICULTURE, NON-AGRICULTURE, FOREST, WATER BODIES (INCLUDE AREA UNDER CRZ), SHORTEST DISTANCES FROM THE PERIPHERY OF THE PROJECT TO PERIPHERY OF THE FORESTS, NATIONAL PARK, WILD LIFE SANCTUARY, ECO SENSITIVE AREAS, WATER BODIES (DISTANCE FROM

THE HFL OF THE RIVER), CRZ. IN CASE OF NOTIFIED INDUSTRIAL AREA, A COPY OF THE GAZETTE NOTIFICATION SHOULD BE GIVEN

Not Applicable, Present land use pattern is Barren land.

4.5 EXISTING INFRASTRUCTURE

The nearest road is NH 333A is about 10 km in west direction. Nearest railway station is Barbigha Railway Station is 1.69 km towards North direction.

4.6 SOIL CLASSIFICATION

Bihar's diverse soils not only support its agricultural productivity but also offer valuable resources for industries like brick-making. The Gangetic Plains, characterized by nutrient-rich alluvial soils deposited by rivers such as the Ganges, Gandak, and Kosi, provide excellent material for brick earth due to their fine texture and workability. These soils, with their balanced composition of clay, silt, and sand, are ideal for molding and firing bricks of high quality.

In the southern regions, the presence of red and black soils, originating from ancient crystalline rocks and basalt formations, further expands the options for brick production. Although these soils are more commonly associated with agriculture, their mineral content makes them suitable for crafting durable bricks.

Moreover, in the eastern parts of Bihar, laterite soils formed through intense weathering processes contain iron-rich properties, lending bricks a characteristic reddish hue. Along the riverbanks, clayey marshy and deltaic soils also serve as essential raw materials in the brick-making industry.

With an understanding of the region's soil types, Bihar's communities continue to leverage these natural resources, contributing to both agricultural productivity and the growth of local industries.

4.7 RAINFALL & CLIMATE DATA FROM SECONDARY SOURCES

The climate of this district is characterized by mild winter, hot summer and hot and humid monsoon season, i.e. "Tropical" type. The year may be divided into four seasons. The cold season starts from December and lasts till the beginning of March. The summer season follows and continues till first week of June when the southwest monsoon commences. June to September is the southwest monsoon season. The post monsoon months October and November constitute a transition period from the monsoon to the

winter season. The average annual rainfall in the district is 996.6 mm. The rainfall in the southwest monsoon season constitutes to about 86% of the annual normal rainfall. July is the rainiest month with an average rainfall of 281.3 mm. January is the coldest month when the mean maximum temperature at about 25°C and the mean minimum temperature at about 11°C. The minimum temperatures may sometimes go down to about 4°C. May is the hottest month with the mean maximum temperature at about 40°C and the mean minimum temperature at about 26°C. The maximum temperatures may sometimes be above 44°C. The season of rain commences from mid of June with the outburst of south-west monsoon. The advent of monsoon brings a complete change in weather with appreciable falls in temperature. 15 As per the data available with the department, the average annual rainfall in the district is 1127 mm. Maximum rainfall occurs during the month of June to September when the district receives almost 80 percent of its average total rainfall. The district receives minimum rainfall during the month of December. Weather conditions become hot and humid during the rainy season. The average number of rainy days in district is 45. The heavy rainfall during the monsoon months is due to the change of direction impressed upon the monsoon current by Himalayan range.

5. PLANNING BRIEF

5.1 PLANNING CONCEPT (TYPE OF INDUSTRIES, FACILITIES AND TRANSPORTATION ETC.) TOWN AND COUNTRY PLANNING/DEVELOPMENT AUTHORITY CLASSIFICATION.

Proposed method of mining is Open cast semi – mechanized method.

5.2 LAND USE PLANNING

- The mining activity is being carried out in leased location. Upper 0.15m (thick layer of soil has been considered as top soil, which will be kept on the berm safely.
- This will be dumped temporarily on the berm or earmarked place near mine working and after removing earth the top soil will be spread over the mined-out area to restore the proposed field or used besides, the plant where plantation is to be done.
- The final pit will be utilized for plantation.

5.3 ASSESSMENT OF INFRASTRUCTURE DEMAND (PHYSICAL & SOCIAL)

On the basis of the preliminary site visit, the infrastructure demand in the villages was assessed on the basis of need and priority.

5.4 AMENITIES/FACILITIES

For sanitation purpose portable/mobile toilets will be provided by the proponent. Provision of drinking water: Water required for drinking purpose will be obtained through tankers/nearby sources with proper permission.

6. PROPOSED INFRASTRUCTURE

6.1 INDUSTRIAL AREA (PROCESSING AREA)

No infrastructure is proposed.

6.2 RESIDENTIAL AREA (NON-PROCESSING AREA)

As the local person will be given employment, no residential area/ housing is proposed.

6.3 GREEN BELT

It is proposed to have plantation on unworked areas (lease periphery or berm of about 1 m width) and a long-haul road to provides cover against dust dissemination. Plantation will also be carried out as social forestry programmed in village schools and the areas allocated by the Panchayat/ State Authorities. During plantation, local plant species will give preference or in consultation with local forest officials.

The proponent will plant total 10 saplings on the boundary/ berm.

6.4 SOCIAL INFRASTRUCTURE

The clay mining activity provides employment opportunities to various people. The economic base of the region will also be enhanced, if the mining is allowed. In the case of land use, it is clear that any type of quarrying would drastically change the existing land use.

The proponent will take care of all the facilities for workers at the mining site area. For sanitation purpose portable/mobile toilets will be provided by the proponent. Provision of drinking water: Water required for drinking purpose will be obtained through tankers/nearby sources with proper permission.

6.5 CONNECTIVITY

The mine site is well connected to NH 333A is about 10 km in west direction. Nearest Railway Station is Barbigaha RailWay Station is 1.69 km towards North direction. Nearest airport is Jayprakash Narayan International Airport, Patna is about 75.35 km in NW direction.

6.6 DRINKING WATER MANAGEMENT (SOURCE & SUPPLY OF WATER)

Total Water requirement for drinking and other operations will be 7.61 KLD. Water Tankers is the main sources of water.

TABLE 6.1: WATER REQUIREMENT

S. No.	Purpose	Water Requirement (KLD)
1.	Domestic Use	2.5
2.	Water Sprinkling & Plantation	3.0
3.	Clay Molding	2.11
Total		7.61

6.7 SEWERAGE SYSTEM

Domestic wastewater will be sent to septic tank followed by soak pit.

6.8 INDUSTRIAL WASTE MANAGEMENT

Not Applicable

6.9 SOLID WASTE MANAGEMENT

No waste shall be generated during mining activities. Hence, no proposal has been envisaged for separate dumping at mine site.

6.10 POWER REQUIREMENT & SUPPLY/SOURCE

All the activities will be carried out semi mechanically. The operation will be done during day light only hence there is no power requirement for the project at site.

7. REHABILITATION AND RESETTLEMENT (R&R) PLAN

7.1 POLICY TO BE ADOPTED (CENTRAL/STATE) IN RESPECT OF THE PROJECT AFFECTED PERSONS INCLUDING HOME OUSTEES, LAND OUSTEES AND LANDLESS LABORERS (A BRIEF OUTLINE TO BE GIVEN).

The resettlement and rehabilitation are not applicable.

8. PROJECT SCHEDULE & COST ESTIMATES

8.1 LIKELY DATE OF START OF CONSTRUCTION AND LIKELY DATE OF COMPLETION (TIME SCHEDULE FOR THE PROJECT TO BE GIVEN)

The project activity will be taken up in parallel along with the opening of mine, after the Environmental Clearance is granted.

8.2 ESTIMATED PROJECT COST ALONG WITH ANALYSIS IN TERMS OF ECONOMIC VIABILITY OF THE PROJECT

The estimated project cost is Rs 744500 INR. The EMP budget is given in Table 8.1.

TABLE 8.1 EMP BUDGET

S. No.	Description	Capital Cost Rs. in Lakh (Rs.)	Recurring Cost Rs. in Lakh (Rs.)
1	Dust suppression (Water tanker, sprinkler)	0.20	0.05
2.	Pollution Monitoring • Air • Water • Soil • Noise	0.00	0.20
3.	Plantation	0.10	0.05
4.	Construction and maintenance of haul road	0.35	0.10
Total		0.65	0.40

9. ANALYSIS OF PROPOSAL (FINAL RECOMMENDATIONS)

9.1 FINANCIAL AND SOCIAL BENEFITS WITH SPECIAL EMPHASIS ON THE BENEFIT TO THE LOCAL PEOPLE INCLUDING TRIBAL POPULATION, IF ANY, IN THE AREA

The project will generate significant economic benefits for the state through royalty payments for the mineral, as well as for the local population by creating both direct and indirect employment opportunities. It will provide a livelihood to some of the most economically disadvantaged sections of society. Additionally, the project will create job opportunities for people residing in the vicinity, benefiting them directly through employment or indirectly through various associated activities.