

PRE-FEASIBILITY REPORT

FOR

**M/S MAA TARA INT UDYOG MINING PROJECT LOCATED AT MOUZA – GADHA
HASAN, P.O. + P.S. – PARU, DISTRICT – MUZAFFARPUR , BIHAR OVER AN
AREA OF 2.04 HA HAVING A PRODUCTION CAPACITY OF 6609 CUM/ANNUM.**

PROJECT PROPONENT

Sri Sanjay Kumar Singh

S/o – Late Aditya Narayan Singh

At. –village/Mauza- Awas Nagar New police line,

P.O.- MIT, P.S. – Ahiyapur,

District- Muzaffarpur. State - Bihar 842003

Category ‘B2’ As Per Project or Activity 1(a).

CONSULTANT:

P and M Solution

Accredited by QCI/NABET Certificate No. NABET/EIA/2326/RA 0298_Rev.01

valid till May 07, 2026



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C-88, Sector 65, Noida -201301 – U.P
A QCI –NABET Accredited Organization



PREFEASIBILITY REPORT

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The proposed M/s Maa Tara Int Udhyog Mining project is located at Khata No.- 128, 129, 24, 90, 36, 17, 62, 127, 01 Khesra No. 28, 29, 30, 98, 197,214, 666, 771, 852, 853, 857, 893, 912, 945, 949, 982, 1004, 1033, 1053, 1054, 1113, 1115, 1244, 1253, 1254, near Mouza – Gadha Hasan P.O. + P.S.- Paru, District – Muzaffarpur, State – Bihar over an area of 2.04 ha. The mining lease has been granted to **Proponent- Sri Sanjay Kumar Singh. S/o – Late Aditya Narayan Singh**, residing at - village/Mauza- Awas Nagar New police line, P.O. - MIT, P.S. – Ahiyapur, District- Muzaffarpur. State - Bihar 842003. The Mine Plan for the project has been duly approved by the District Mining Office, Muzaffarpur, Bihar, under Letter No. 60/M, dated 20.01.2026 (enclosed as Annexure-1). The total estimated project cost is Rs. 16,32,000 INR.

TABLE 1.1 SALIENT FEATURE OF THE PROJECT

S. No.	Particular	Detail			
1.	Project Name	The proposed M/s Maa Tara Int Udhyog Mining project located at Mouza – Gadha Hasan P.O. + P.S.- Paru, District – Muzaffarpur, State – Bihar over an area of 2.04 ha. Having a production capacity of 6609 Cum/Annum by Sri Sanjay Kumar Singh. S/o – Late Aditya Narayan Singh			
2.	Location of mine	Mouza – Gadha Hasan P.O. + P.S.- Paru, District – Muzaffarpur, State- Bihar			
		Khata no.	Khesra no.	Area (Ha.)	
		128, 129, 24, 90, 36, 17, 62, 127, 01	28, 29, 30, 98, 197,214, 666, 771, 852, 853, 857, 893, 912, 945, 949, 982, 1004, 1033, 1053, 1054, 1113, 1115, 1244, 1253, 1254	2.04	
3.	Site co-ordinate	Khasra no.	Point	Latitude	Longitude
		771	1	26° 4'15.80"N	85° 3'47.44"E
			2	26° 4'15.77"N	85° 3'47.87"E
			3	26° 4'13.64"N	85° 3'47.92"E
			4	26° 4'13.60"N	85° 3'47.57"E
		28,29,30	5	26° 4'17.04"N	85° 3'54.06"E

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

			6	26° 4'17.62"N	85° 3'55.67"E
			7	26° 4'16.12"N	85° 3'55.50"E
			8	26° 4'16.13"N	85° 3'54.03"E
		98	9	26° 4'20.04"N	85° 4'3.03"E
			10	26° 4'20.02"N	85° 4'3.49"E
			11	26° 4'18.13"N	85° 4'3.30"E
			12	26° 4'18.15"N	85° 4'2.95"E
		912	13	26° 4'6.80"N	85° 3'54.70"E
			14	26° 4'6.85"N	85° 3'55.05"E
			15	26° 4'5.72"N	85° 3'55.20"E
			16	26° 4'5.60"N	85° 3'54.77"E
		666	17	26° 4'12.64"N	85° 3'59.53"E
			18	26° 4'12.58"N	85° 3'59.78"E
			19	26° 4'11.68"N	85° 3'59.63"E
			20	26° 4'11.70"N	85° 3'59.35"E
		197	21	26° 4'14.96"N	85° 4'9.08"E
			22	26° 4'14.94"N	85° 4'9.42"E
			23	26° 4'13.97"N	85° 4'9.34"E
			24	26° 4'14.03"N	85° 4'9.00"E
		214	25	26° 4'16.29"N	85° 4'10.98"E
			26	26° 4'16.27"N	85° 4'11.63"E
			27	26° 4'15.32"N	85° 4'11.43"E
			28	26° 4'15.39"N	85° 4'10.85"E
		852, 853, 857	29	26° 4'0.20"N	85° 3'51.07"E
			30	26° 4'1.81"N	85° 3'52.96"E
			31	26° 3'58.79"N	85° 3'52.99"E
			32	26° 3'58.93"N	85° 3'51.04"E
		893	33	26° 4'2.46"N	85° 3'55.61"E
			34	26° 4'2.52"N	85° 3'56.24"E

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

			35	26° 3'58.51"N	85° 3'56.04"E
			36	26° 3'58.56"N	85° 3'55.59"E
		945, 949	37	26° 4'6.32"N	85° 3'57.99"E
			38	26° 4'6.26"N	85° 3'58.57"E
			39	26° 3'58.30"N	85° 3'57.67"E
			40	26° 3'58.45"N	85° 3'57.18"E
		1004	41	26° 4'6.65"N	85° 4'4.78"E
			42	26° 4'6.66"N	85° 4'5.03"E
			43	26° 4'5.52"N	85° 4'4.96"E
			44	26° 4'5.58"N	85° 4'4.71"E
		1033	45	26° 4'6.54"N	85° 4'6.51"E
			46	26° 4'6.29"N	85° 4'7.34"E
			47	26° 4'4.83"N	85° 4'7.18"E
			48	26° 4'4.91"N	85° 4'6.32"E
		982	49	26° 4'2.66"N	85° 4'2.65"E
			50	26° 4'2.42"N	85° 4'5.07"E
			51	26° 4'2.03"N	85° 4'5.02"E
			52	26° 4'2.25"N	85° 4'2.60"E
		1053, 1054	53	26° 3'58.15"N	85° 4'7.72"E
			54	26° 3'57.81"N	85° 4'8.81"E
			55	26° 3'55.19"N	85° 4'7.99"E
			56	26° 3'55.63"N	85° 4'7.15"E
		1113	57	26° 3'57.17"N	85° 4'11.98"E
			58	26° 3'57.10"N	85° 4'12.45"E
			59	26° 3'52.96"N	85° 4'12.09"E
			60	26° 3'52.97"N	85° 4'11.89"E
			61	26° 3'58.37"N	85° 4'24.14"E
			62	26° 3'58.23"N	85° 4'25.35"E
			63	26° 3'57.67"N	85° 4'25.30"E

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

			64	26° 3'57.77"N	85° 4'24.11"E
		1244	65	26° 3'56.37"N	85° 4'23.69"E
			66	26° 3'56.24"N	85° 4'24.75"E
			67	26° 3'55.44"N	85° 4'24.70"E
			68	26° 3'55.55"N	85° 4'23.64"E
		1115	69	26° 3'50.74"N	85° 4'13.30"E
			70	26° 3'50.74"N	85° 4'13.72"E
			71	26° 3'49.00"N	85° 4'13.65"E
			72	26° 3'49.01"N	85° 4'13.21"E
4.	Land use pattern	Barren land			
5.	Minerals of mine	Brick earth			
6.	Total Geological reserves	36720 m ³			
7.	Total Mineable reserves	33045 m ³			
8.	Proposed production capacity	6609 cum/annum			
9.	Method of mining	Opencast manual method			
10.	Man power requirement	30 persons			
11.	No of working days	250 Days			
12.	Water Demand	7.0 KLD			
13.	Sources of water	Tankers			
14.	Nearest Village	Project site located in Gadha hasan village is about 0.32 km in East direction.			
15.	Nearest School	Chakbajo Middle School is Approx. 1.73 km towards ESE direction.			
16.	Nearest Hospital	Community Health Centre is Approx. 2.26 km towards North direction.			
17.	Nearest River/ Canal	Canal is Approx 1.60 km in N direction.			
18.	Highway	SH-74, approx 2.83 km towards NE direction. NH-722, approx 5.29km, in SE direction.			
19.	Nearest Railway Station	Paru Khas Railway Station at a distance of approx. 1.38 km towards NW direction from site			
20.	Nearest Airport	Jay Prakash Narayan International Airport, Patna at a distance of 52.07 km in South direction from site			
21.	Nearest Town	Bakhra, approx. 5.21 km towards SE direction.			
22.	Seismic Zone	Seismic Zone IV			
23.	Project cost	Rs. 16,32,000 INR			
24.	EMP Cost	Capital cost: Rs 0.85 Lakhs Recurring cost: Rs 0.40 Lakhs			

1.2 PROPOSED PLANNING

Mining method - Opencast manual method

Project cost –Rs. 16,32,000 INR

Proposed production capacity – 6609 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 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 M/s Maa Tara Int Udyog Mining project is located at Khata No.- 128, 129, 24, 90, 36, 17, 62, 127, 01 Khesra No. 28, 29, 30, 98, 197,214, 666, 771, 852, 853, 857, 893, 912, 945, 949, 982, 1004, 1033, 1053, 1054, 1113, 1115, 1244, 1253, 1254, near Mouza – Gadha Hasan P.O. + P.S.- Paru, District – Muzaffarpur, State – Bihar over an area of 2.04 ha. The mining lease has been granted to **Proponent- Sri Sanjay Kumar Singh. S/o – Late Aditya Narayan Singh**, residing at - village/Mauza- Awas Nagar New police line, P.O. - MIT, P.S. – Ahiyapur, District- Muzaffarpur. State - Bihar 842003.

2.2 BRIEF INFORMATION ABOUT THE PROJECT

The land area is 2.04 Ha. The total mineable reserve is 33045 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 30 will be required for the proposed project.

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

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

The proposed M/s Maa Tara Int Udhyog Mining project is located at Khata No.- 128, 129, 24, 90, 36, 17, 62, 127, 01 Khesra No. 28, 29, 30, 98, 197, 214, 666, 771, 852, 853, 857, 893, 912, 945, 949, 982, 1004, 1033, 1053, 1054, 1113, 1115, 1244, 1253, 1254, near Mouza – Gadha Hasan P.O. + P.S.- Paru, District – Muzaffarpur, State – Bihar over an area of 2.04 ha.

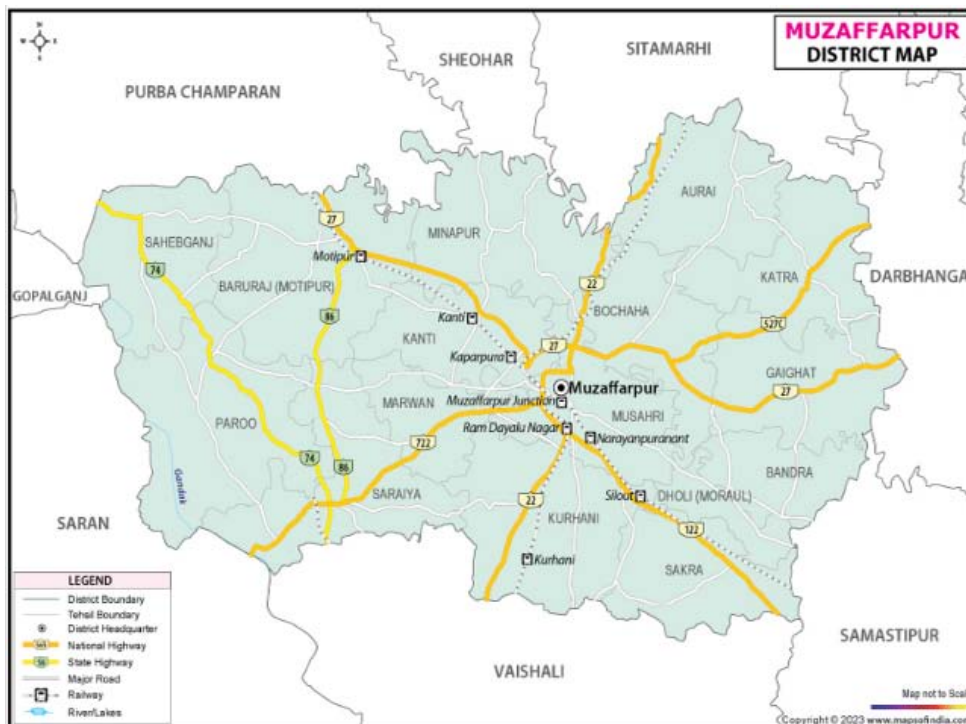


FIGURE 3.1 LOCATION PLAN

Site Co-ordinate

Khasra no.	Point	Latitude	Longitude
771	1	26° 4'15.80"N	85° 3'47.44"E
	2	26° 4'15.77"N	85° 3'47.87"E
	3	26° 4'13.64"N	85° 3'47.92"E
	4	26° 4'13.60"N	85° 3'47.57"E
28,29,30	5	26° 4'17.04"N	85° 3'54.06"E
	6	26° 4'17.62"N	85° 3'55.67"E
	7	26° 4'16.12"N	85° 3'55.50"E
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98	9	26° 4'20.04"N	85° 4'3.03"E

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

	10	26° 4'20.02"N	85° 4'3.49"E
	11	26° 4'18.13"N	85° 4'3.30"E
	12	26° 4'18.15"N	85° 4'2.95"E
912	13	26° 4'6.80"N	85° 3'54.70"E
	14	26° 4'6.85"N	85° 3'55.05"E
	15	26° 4'5.72"N	85° 3'55.20"E
	16	26° 4'5.60"N	85° 3'54.77"E
666	17	26° 4'12.64"N	85° 3'59.53"E
	18	26° 4'12.58"N	85° 3'59.78"E
	19	26° 4'11.68"N	85° 3'59.63"E
	20	26° 4'11.70"N	85° 3'59.35"E
197	21	26° 4'14.96"N	85° 4'9.08"E
	22	26° 4'14.94"N	85° 4'9.42"E
	23	26° 4'13.97"N	85° 4'9.34"E
	24	26° 4'14.03"N	85° 4'9.00"E
214	25	26° 4'16.29"N	85° 4'10.98"E
	26	26° 4'16.27"N	85° 4'11.63"E
	27	26° 4'15.32"N	85° 4'11.43"E
	28	26° 4'15.39"N	85° 4'10.85"E
852, 853, 857	29	26° 4'0.20"N	85° 3'51.07"E
	30	26° 4'1.81"N	85° 3'52.96"E
	31	26° 3'58.79"N	85° 3'52.99"E
	32	26° 3'58.93"N	85° 3'51.04"E
893	33	26° 4'2.46"N	85° 3'55.61"E
	34	26° 4'2.52"N	85° 3'56.24"E
	35	26° 3'58.51"N	85° 3'56.04"E
	36	26° 3'58.56"N	85° 3'55.59"E
945, 949	37	26° 4'6.32"N	85° 3'57.99"E
	38	26° 4'6.26"N	85° 3'58.57"E
	39	26° 3'58.30"N	85° 3'57.67"E
	40	26° 3'58.45"N	85° 3'57.18"E

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

1004	41	26° 4'6.65"N	85° 4'4.78"E
	42	26° 4'6.66"N	85° 4'5.03"E
	43	26° 4'5.52"N	85° 4'4.96"E
	44	26° 4'5.58"N	85° 4'4.71"E
1033	45	26° 4'6.54"N	85° 4'6.51"E
	46	26° 4'6.29"N	85° 4'7.34"E
	47	26° 4'4.83"N	85° 4'7.18"E
	48	26° 4'4.91"N	85° 4'6.32"E
982	49	26° 4'2.66"N	85° 4'2.65"E
	50	26° 4'2.42"N	85° 4'5.07"E
	51	26° 4'2.03"N	85° 4'5.02"E
	52	26° 4'2.25"N	85° 4'2.60"E
1053, 1054	53	26° 3'58.15"N	85° 4'7.72"E
	54	26° 3'57.81"N	85° 4'8.81"E
	55	26° 3'55.19"N	85° 4'7.99"E
	56	26° 3'55.63"N	85° 4'7.15"E
1113	57	26° 3'57.17"N	85° 4'11.98"E
	58	26° 3'57.10"N	85° 4'12.45"E
	59	26° 3'52.96"N	85° 4'12.09"E
	60	26° 3'52.97"N	85° 4'11.89"E
	61	26° 3'58.37"N	85° 4'24.14"E
	62	26° 3'58.23"N	85° 4'25.35"E
	63	26° 3'57.67"N	85° 4'25.30"E
	64	26° 3'57.77"N	85° 4'24.11"E
1244	65	26° 3'56.37"N	85° 4'23.69"E
	66	26° 3'56.24"N	85° 4'24.75"E
	67	26° 3'55.44"N	85° 4'24.70"E
	68	26° 3'55.55"N	85° 4'23.64"E
1115	69	26° 3'50.74"N	85° 4'13.30"E
	70	26° 3'50.74"N	85° 4'13.72"E
	71	26° 3'49.00"N	85° 4'13.65"E

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

	72	26° 3'49.01"N	85° 4'13.21"E
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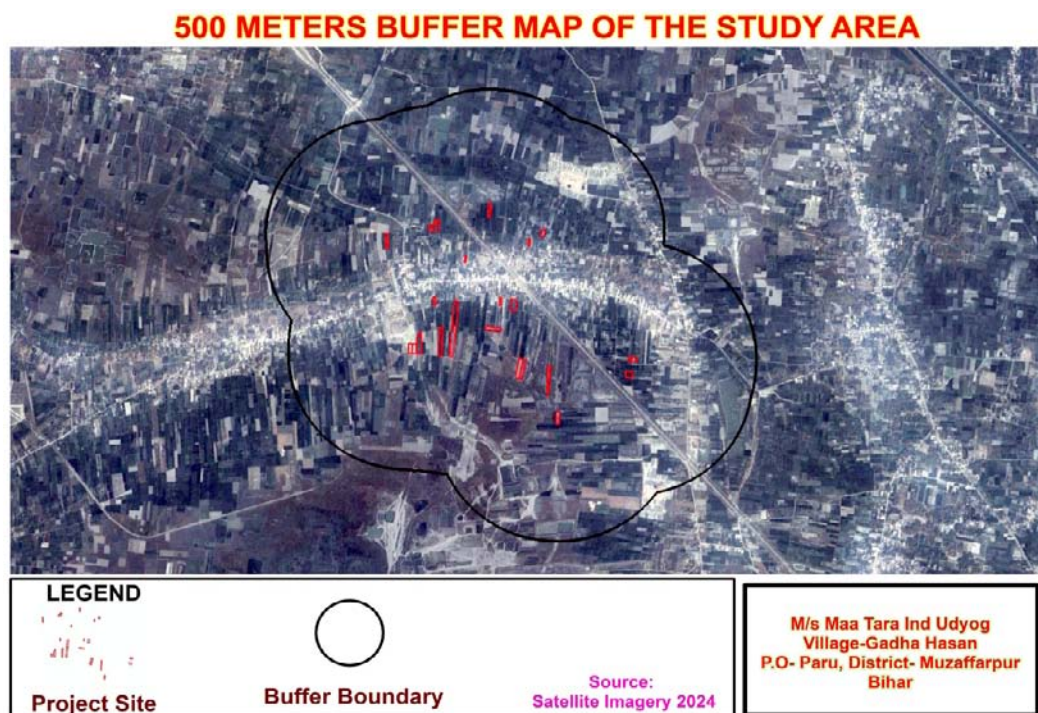


FIGURE 3.2 500M BUFFER MAP

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 6609 cum/annum, covering a total mine lease area of 2.04 Ha. The extraction depth is planned to reach a maximum of 1.8 meters. A berm of 10% which is 0.20 ha wide strip all along the each individual field (mine area) as a statutory condition has been left in which top soil will be stored temporary. Excavation of brick earth soil is restricted up to a maximum depth of 2.0 m.

3.5 PROJECT DESCRIPTION WITH PROCESS DETAILS

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

- Proposed mining will be opencast manual using hand tools like shovel, spade, sieve etc. Mining will be done only in the applied field (as per agreement) keeping the nearby plot(s) unaffected. 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 2.0 m from the surface as per provision of MCR-1960 and MMR 1961
- The mining shall be done during daytime only.
- Only 250 working days in a year have been assured for mining activity and as well as for calculation purpose.
- Before start mining the top fertile soil of each proposed mining field (up to 20 centimeter depth or 6 inch) shall be scraped & stacked on the berm or any earmarked place which will be spread over the mining pit, after completing mining activity, Thus the fertility of land will be restored.
- 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 chimney site and only brick earth will be carried to kiln through cart/tractor or by hand loads. The water will be required either the drinking proposes at the site or for casting of bricks at kiln.
- 25- 30 labour will be required for the proposed project.
- Soil mining shall strictly be undertaken as per Rules & regulation/ permission obtained from District Administration/Mining Department.

3.5.2 PRODUCTION PLANNING

Mining excavation will be started after obtaining Mining approval from District Mining Office, Muzaffarpur, Bihar. Though application is being applied for 5 years for but it depends upon needs.

3.5.3 WORKING DEPTH (BELOW GROUND LEVEL)

Mining will be carried out only up to maximum depth of 2.0 m bgl.

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 30 labourers will be employed for the project, with a total water requirement of 7.0 KLD. Out of this, 2.0 KLD will be allocated for drinking water for the workers, sourced from a tanker or nearby water sources, 3.0 KLD for Plantation and dust suppression and 2.0KLD for Clay Molding. 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 0.18 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

M/S MAA TARA INT UDYOG MINING PROJECT (2.04 HA.)

Nearest Railway Station	Paru Khas Railway Station at a distance of approx. 1.38 km towards NW direction from site
Nearest Airport	Jay Prakash Narayan International Airport, Patna at a distance of 52.07 km in South direction from site
Nearest Highway	SH-74, approx 2.83 km towards NE direction. NH-722, approx 5.29km, in SE 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 2.04 ha. Land has been obtained on lease by M/s Maa Tara Int Udhog for 5-year mining period. Land document is enclosed as **Annexure II**.

TABLE 4.2: LAND DETAILS

Location of proposed Mining site	Khata no.	Khesra no.	Area (Ha.)
Mauza- Gadha Hasan	128, 129, 24, 90, 36, 17, 62, 127, 01	28, 29, 30, 98, 197,214, 666, 771, 852, 853, 857, 893, 912, 945, 949, 982, 1004, 1033, 1053, 1054, 1113, 1115, 1244, 1253, 1254	2.04

4.3 Topography and General Geology of local Area

Muzaffarpur district lies in North Bihar (i.e. North of Ganga). It covers a geographical area of 3132 Km² and falls under 72 F, 72 G and 72 B degree sheets of Survey of India. It lies between North Latitude 25° 54'00" to 26° 23'00" and East Longitude 84° 53'00" to 85° 45'00" It is bounded by Sitamarhi and East Champaran in North and Vaishali and Saran in south whereas in east. It is bounded by Darbhanga and Samastipur and in west by Saran and Gopalganj district.

The district received an average rainfall of 1280 mm.

Period from June to September is well known for monsoon. The monthly rainfall data shows that 85% of rainfall comes during monsoon period. The district gains its maximum rainfall from south-westerly monsoon during rainy season and a little percentage from North Easterly monsoon during winter.

The temperature ranges between 27°C to 38°C in general but sometimes it goes even upto 44°C also.

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 Non-Forest land.

4.5 EXISTING INFRASTRUCTURE

In the villages located in and around the project area of **district**, the existing infrastructural facilities mainly include village roads (kutchra and pucca), local transportation routes, low-tension and high-tension power lines, water supply sources such as hand pumps and wells, small buildings and residential structures, agricultural pathways, and basic public utilities. No major infrastructure like railways, conveyor systems, or industrial facilities exists in the nearby villages.

4.6 SOIL CLASSIFICATION

Muzaffarpur district is characterized by a wide variety of soils which can be broadly grouped into two categories.

Khadar Soil (Newer Alluvium): Predominantly found in Muzaffarpur, this soil is dark brown, fertile, and rejuvenated annually by riverine deposits. It is highly suitable for crops like rice, wheat, sugarcane, jute, tobacco, vegetables, maize, and oilseeds. Balsundari Soil: Present in regions like Muzaffarpur, this soil contains more than 30% lime. making it alkaline. While it

poses fertility challenges, it supports the cultivation of coarse cereals and is notably used for plantation crops such as mango, litchi, and banana.

4.7 RAINFALL & CLIMATE DATA FROM SECONDARY SOURCES

The district received an average rainfall of 1280 mm. Period from June to September is well known for monsoon. The monthly rainfall data shows that 85% of rainfall comes during monsoon period. The district gains its maximum rainfall from south-westerly monsoon during rainy season and a little percentage from North Easterly monsoon during winter. The district experiences a severe winter followed by a very hot summer and then by heavy downpour of monsoon. The summer starts here from April and lasts upto June, and then monsoon starts and continues upto September. After this winter starts from November that continues upto middle of March. Temperature starts increasing from late March and gains its peak during May. The temperature ranges between 27°C to 38°C in general but sometimes it goes even upto 44°C also.

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 0.18m (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 1m width) and along haul roads 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 45saplings 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 nearby village roads. NH-722, approx 5.29 km towards SE direction Paru Khas Railway Station at a distance of approx. 1.38 km towards NW direction from site. Jay Prakash Narayan International Airport, Patna at a distance of 52.08 km in South direction from site

6.6 DRINKING WATER MANAGEMENT (SOURCE & SUPPLY OF WATER)

Total Water requirement for drinking and other operations will be 7.0 KLD. Water Tankers is the main sources of water.

TABLE 6.1: WATER REQUIREMENT

S. No.	Purpose	Water Requirement (KLD)
1.	Domestic Use	2.0
2.	Water Sprinkling & Plantation	3.0
3.	Clay Molding	2.0
Total		7.0

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 is 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 16,32,000 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)	0.30	0.10
2.	Pollution Monitoring • Air • Water • Soil • Noise	0.00	0.05
3.	Plantation	0.30	0.20
4.	Construction and maintenance of haul road	0.25	0.05
Total		0.85	0.40

Construction and maintenance of haul road

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