

Proposed Soil Mining for M/s Uttam Threads Pvt. Ltd. - Bahsipur Saidpur Construction Soil Mining Project at Village- Bahsi Saidpur, Mauza- Taal Salha, P.O-Bahsi Saidpur, P.S –Raja Paker, District- Vaishali (Bihar)

PRE-FEASIBILITY REPORT

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1. Executive Summary:

The proposed Soil mining is at Vill.- Bahsi Saidpur, P.O-Bahsi Saidpur, P.S –Raja Paker, District- Vaishali (Bihar). It is proposed on Khata no.–289, 210, 57, 88, 100. Khasra No-77, 08, 45, 151, 150, 163, 161 in an area of 2.36 Hectares or 5.83 Acres. Mining will be done as per the approved Mine Plan by competent Officer. Work proposed is mainly specified for filling/leveling work for Construction of New Ganga Six Lane Bridge Bidupur, Vaishali, state Bihar by M/s- UTTAM THREADS PVT. LTD.

The soil is required in various construction activities and being used to fulfill the infrastructural demand. As mentioned above, proposed soil mining will be done for filling purpose

2.Introduction of the Project:

M/s Uttam Threads Pvt. Ltd, Abhijeet Kumar Verma (Authorized Signatory) is the proponent of the Bahsi Saidpur Construction Soil Mine at Khata no.–289, 210, 57, 88, 100. Khasra No-77, 08, 45, 151, 150, 163, 161, Village- Bahsi Saidpur, Mauza- Taal Salha, P.O-Bahsi Saidpur, P.S –Raja Paker, District- Vaishali (Bihar). The total mine lease area of the proposed mining project is 2.36 Hectares or 5.83 Acres. As per EIA Notification 14th September, 2006 & O.M No-L-11011/47/2011-IA.II (M) dated 24th June 2013 the proposed project falls under Schedule 1(a) & Category “B-2”. As per MOEF&CC Office Memorandum no. L-11011/47/2011-IA.II (M) dated 24th June 2013 following conditions shall be followed during the mining activity:

- No drilling and blasting are proposed for the mining activity.
- The borrowing/ excavation activity will be restricted up to maximum depth of 2m below general ground water level or up to 2m above the ground water table whichever comes first.
- Top soil, avg thickness of 0.2m, will be preserved and kept at berm area , later will be used for plantation purposes.
- No Mining activity will be carried out with in 15 meter periphery of any civil structure.

The Coordinate details of proposed mine lease area is given as Table No.1

Table 1: Project details

Location & Revenue Details of Mining Site	Khata No.	Khasra No.	Area (Acre)	Latitude	Longitude
	289	77	0.44	25°43'31.00"N	85°23'33.11"E
				25°43'29.99"N	85°23'36.17"E
				25°43'29.31"N	85°23'35.95"E
				25°43'30.27"N	85°23'32.83"E
	210	08	0.77	25°43'42.37"N	85°23'20.38"E
				25°43'41.70"N	85°23'23.78"E
				25°43'40.72"N	85°23'23.51"E
				25°43'41.19"N	85°23'20.20"E
	57	45	1.83	25°43'33.69"N	85°23'18.90"E
				25°43'32.34"N	85°23'26.13"E
				25°43'31.01"N	85°23'25.69"E
				25°43'32.50"N	85°23'18.72"E
	88	151	1.12	25°43'48.45"N	85°23'33.03"E
				25°43'47.12"N	85°23'36.65"E
				25°43'45.90"N	85°23'36.23"E
				25°43'47.12"N	85°23'32.48"E
	100	150	0.48	25°43'49.54"N	85°23'33.42"E
				25°43'48.85"N	85°23'35.30"E
				25°43'47.80"N	85°23'34.90"E
				25°43'48.45"N	85°23'33.03"E
		163	0.58	25°43'38.69"N	85°23'32.43"E
				25°43'38.04"N	85°23'33.58"E
				25°43'36.23"N	85°23'32.27"E
				25°43'36.69"N	85°23'31.23"E
		161	0.62	25°43'41.66"N	85°23'33.97"E
				25°43'41.14"N	85°23'35.04"E
				25°43'39.04"N	85°23'33.93"E
25°43'39.50"N				85°23'32.86"E	
Total Area :- 5.83 Acre					

2.1. Identification of project and project proponent:

The project comprises of soil Mining at Khata no.–289, 210, 57, 88, 100. Khasra No-77, 08, 45, 151, 150, 163, 161, Village- Bahsi Saidpur, Mauza- Taal Salha, P.O-Bahsi Saidpur, P.S –Raja Paker, District- Vaishali (Bihar) has been leased to Abhijeet Kumar Verma (Authorized Signatory)

Details of project Proponent:

M/S UTTAM THREADS PVT.LTD.

Autho Signatory- Abhijeet Kumar Verma

S/o- Arjun Prasad Verma

Add.- Shanti Niketan Colony

Kali Mandir Road, R.P.S. More,

Bailley Road, Patna, Bihar, Pin Code -801503

2.2. Brief description of nature of the project:

The proposed soil mining is at Khata no.–289, 210, 57, 88, 100. Khasra No-77, 08, 45, 151, 150, 163, 161, Village- Bahsi Saidpur, Mauza- Taal Salha, P.O-Bahsi Saidpur, P.S –Raja Paker, District- Vaishali (Bihar). The mine lease area is 2.36 Hectares or 5.83 Acres . The excavation will be 49701 Tonnes or 38232 cum of soil.

2.3.Need for the project and its importance to the country:

The economy of India is the eleventh largest in the world by nominal GDP and the third largest by purchasing power parity. The primary reason for the economic growth can be attributed to the growth in infrastructural facilities such as roads, highways & buildings. Infrastructural growth is directly proportional to the availability of raw materials such as soil, stone, sand etc. With the growing infrastructural requirement of the India, the demand of raw materials has increased geometrically. The soil is required in various construction activities and being used to fulfill the infrastructural demand. As mentioned above, proposed soil mining will be done for filling purpose.

2.4.Demand – supply gap

The demand of raw material like soil or sand has been increasing with increase in infrastructure sector in India. Hence this proposed project of soil mining will be cater the raw material for filling purpose

2.5.Imports vs. Indigenous Production

There will be no imports for the proposed project. All production is earmarked for the indigenous demand/ local market.

2.6.Export Possibility

The present project does not seek the export possibility.

2.7.Domestic/Export Markets

The soil will be used for filling/leveling work for Construction of New Ganga Six Lane Bridge Bidupur, Vaishali.

2.8.Employment generation (direct and indirect) due to the project.

The proposed mining will be generating local employment of 30 persons directly.

2. Project Description:

3.1. Type of project including interlinked and interdependent projects, if any.

The present project is a fresh application for environmental clearance for soil mining in an area of 2.36 Hectares or 5.83 Acres and there are no Interlinked or interdependent projects.

3.2. Location (map showing general location, specific location, and project boundary &project site layout) with coordinates:

The mining area is located at the proposed Khata no.–289, 210, 57, 88, 100. Khasra No-77, 08, 45, 151, 150, 163, 161, Village- Bahsi Saidpur, Mauza- Taal Salha, P.O-Bahsi Saidpur, P.S –Raja Paker, District- Vaishali (Bihar).

The location map is enclosed as a plate along with mining Plan.

3.3. Details of alternate sites considered and the basis of selecting the proposed site, Particularly the environmental considerations gone should be highlighted.

No alternate site was considered as the project is mineral specific.

3.4. Size and Magnitude of operation

The maximum rated capacity of the project is excavation of 49701 Tonnes or 38232 cum soil.

Soil mining will be done at the proposed site which will be used for filling purpose.

Year	Overburden (cum)	ROM Soil (tonne)	ROM Soil (cum)
First Year	Nil	49701	38232
Total	Nil	49701	38232

It is also proposed that the extraction of soil would be done max up to 2 mts.

3.5 Project description with process details

It is opencast semi mechanized mine without adoption of drilling & blasting. Mining will be carried out with conventional had tools & Machine. The soil is excavated semi mechanized with the help of spade, chisel, hammer, Excavator & JCB etc. The soil is loaded semi mechanized in to tractor trolley, Dumper & transported. Work proposed is mainly specified for filling/leveling work for Construction of New Ganga Six Lane Bridge Bidupur, Vaishali

- Mining will be confined to the allotted plot(s) only.
- Mining will be restricted to a maximum depth of 2 m from the surface in proper bench form as per MMR-1961.
- No drilling and blasting is proposed.
- No mining activity will be undertaken during the monsoon season.
- During the agreement period of 1 year, the deposit will be worked from the top surface to 2 m which includes approx. 0.2 m of top soil.

3.6. Raw material required along with estimated quantity, likely source, marketing area of final products, Mode of transport of raw material and finished product

No raw Material is envisaged.

3.7. Resource optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined.

Not envisaged.

3.8. Availability of water its source, energy/power requirement and source should be given.

There will be very little requirement of water to carry out operations. The water will be required for drinking purposes and for sprinkling. It is projected that not more than 30 laborers will be required for the proposed project. The total water requirement will be 1.5 KLD. Drinking water requirement for workers would be 0.5 KLD and 1.0 KLD for sprinkling, which will be taken from municipal tankers.

3.9. Quantity of wastes to be generated (liquid and solid) and scheme for their management/disposal.

The entire mineral extracted is saleable. Hence there will be no or very less waste is expected to

generated. No liquid effluents will be generated at site.

3. Site Analysis

4.1. Connectivity

Connectivity details are given in Table-2.

Table 2: Connectivity details from Proposed project site:

Nearest Railway Station	Gram kharika Halt is at distance 6.0 Km in South direction
Nearest Airport	Patna Airport at 35 km in South West direction.
Nearest Highway	National Highway NH-322 is at distance 4.0 km in South direction

4.2. Land form, land use and land ownership

The land has been leased to the proponent for mining for 1 year. The present land use of the proposed area is non-forest & non-agricultural land.

4.3. Topography

Vaishali district lies between north latitude 25° 28'0'' to 26° 5'0'' and east longitude 85° 5'00'' to 85° 40'00''. It covers a part the degree sheet number 72G of survey of India. The geographical area of the district is 2015.37 km². It's district Headquarter is Hajipur. The district is bounded in the north by Muzaffarpur, in the south by Patna (the river Ganga forms a natural boundary), in the east by Samastipur, and in the west by Saran (the river Gandak forming a natural boundary) districts.

The proposed area is almost flat terrain, No perennial nala has observed in the area. The altitude of the area is 69 mRL. Earth is exposed in the area applied for proposed project. No other rock is exposed. No habitation located in the proposed area.

Geology:

These soils have been developed by the Indo Gangetic alluvium laid down by Gandak River. The colour of these soils is pale yellow to yellowish brown. The soils are dark grayish brown to dark brown. The surface texture may vary from sandy loam to loam, clay loam and even to clay. The alluviation of finer particles ensures fine texture of the middle horizons. Soils are neutral to

alkaline in soil reaction. Salinity hazards are visible at some places in Vaishali district. Carbonates are found in increasing order with depth.

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.

The existing land use pattern of the proposed area is completely Non-agricultural land.

There are no forests, water bodies, national park, wild life sanctuary, eco sensitive areas, water bodies or any notified area in the leased-out area.

4.5. Existing Infrastructure

The Applied area is at Kariho. National Highway NH-322 is at a distance of Approx 5.7 Km. in South-West direction from the project site.

4.6. Soil classification

Soil is the backbone of agricultural and industrial development. Soil has a number of characteristics, which may be regarded as the aggregate of the physical, chemical and biological properties. The Bihar plane consists of a thick alluvial mantle of drift origin overlying in most part. The siwalik and older tertiary rocks. The soil is mainly young loam rejuvenated every year by constant deposition of silt, clay and sand brought by different streams. This soil is deficient in phosphoric acid, nitrogen and humus, but potash and lime are usually present in sufficient quantity.

There are three major types of soil in Bihar:

Piedmont Swamp Soil - found in northwestern part of west Champaran district.

Terai Soil – found in northern part of the state along the border of Nepal.

The Gangetic Alluvium – the plain of Bihar is covered by gangetic alluvium (both new as well as old).

4.7. Climate data from secondary sources

The climate of Vaishali district is sub-tropical to sub-humid. The winter temperature ranges varies

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from 16° C to 4° C where as the summer temperature rises upto 40° C. The relative humidity is at its minimum during April and May and maximum during July and August. It ranges between 60 to 90%. The average annual rainfall in the district is 1168 mm. The district receives about 85% of the total rainfall from south-west monsoon. The south west monsoon extends from the middle of June to end of September. The district receives 50% of the rainfall during July and August month of the year.

4.8 Social infrastructure available

The proposed project is located in District- Vaishali of Bihar, having all the basic social and civic amenities. Some of the Social amenities and basic civic amenities are as follow:

Schooling facilities are available in the village Bahsi Saidpur. College Education is available at Vaishali. Health Centres are also available in Vaishali.

4. PLANNING BRIEF

5.1. Planning concept (type of industries, facilities and transportation etc.) town and country planning/development authority classification.

The present project is soil mining for filling purpose

5.2. Population Projection

The project will employ most of the workers from nearby villages. Only supervisory staff will be hired from outside. There will not be any increase in population due to the project. However, few people from other area may migrate in this area for business opportunities

5.3. Land use Planning (Breakup along with green belt etc.)

The soil mining will be carried out on an area of 2.36 Hectares or 5.83 Acres . Green belt will be developed in an area identified by the local gram panchayat.

5.4. Assessment of infrastructure demand (physical & social)

5.4.1. Physical

Conditions of roads are moderately good and needs to be maintained.

5.4.2. Social

- ❖ The good numbers of educational facilities are available in the study area.
- ❖ Proper Medical facilities are lacking but available in the district.

5.4.3 Amenities/Facilities

The mine site office, first aid room & rest shelter will be established in the lease area. Clean drinking water will be provided. The toilets will be provided separately for males and females.

6 Proposed Infrastructure

6.1. Industrial area (processing area)

Not applicable

6.2. Residential area (non processing area)

Not applicable.

6.3. Green belt

The lease area is marked by large exposure of undulated land. Plantation will be undertaken with in outside the lease along Kachha road and at berm area. The tree species recommended are Ficusreligosa (pipal), Azadirachtaindica (Neem), Ficusglomerata (Gular), Dalbergiasisso (Shisham) and Syzygium cumin (Jamun) may also be recommended. Mangiferaindica (Aam), Emblicaofficinalis (Anwala). The details of the plantation are as given on the tabular form:

Table 3: Details of plantation

Year	Area (ha)	No. Samplings
First Year	0.50	50
Total	0.50	50

6.4. Social Infrastructure

No social infrastructure is proposed in present project

6.5. Connectivity (Traffic and transportation road/rail/metro/water ways etc.)

The applied area is at Bahsi Saidpur. National Highway NH-322 is at distance 4.0 km in South direction. Nearest road Desri Mahua road is at distance 3.0 km in North-East direction.

6.6. *Drinking water management (source & supply of water)*

In order to meet the drinking water requirement for site workers, water from existing bore wells will be used.

6.7. *Sewerage system*

The domestic effluent from the soil mining site and rest shelter will be generated, which will be managed through soak pit.

6.9. *Solid waste management*

Solid waste generated will be of domestic in nature and separate bins will be used for collection of waste. No littering will be allowed in the mine site.

6.10. *Power requirement & supply/source*

. Electrical power if required only in the office of mine site will be obtained from the state electricity board.

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 project doesn't involve resettlement and rehabilitation.

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. The production will commence within two months of the grant of Environmental Clearance.

8.2 *Estimated project cost along with analysis in terms of economic viability of the project*

The project proponent will incur a total cost of Rs. 7 lakhs. The details are tabulated below:

Table 4: Project Cost

Sr. no.	Description	Cost in Rs.
1	Land cost expenditure	300000.00
2	Cost of infrastructure, Equipment, vehicles, Manpower, machineries, etc.	200000.00
3	Environmental protection	150000.00
4	Socio-economic development	50000.00
	TOTAL	700000.00

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 bring economic benefits to the state by royalty for mineral and to the people by direct (25 laborers) and secondary employment (5 persons for transport) opportunities. The mine management will be helping nearby villages by providing aid to school, conducting medical and social awareness camps, helping in formation of self help groups etc. especially keeping in the view the tribal and economically backward population in the area as part of its corporate social responsibility. Thus the project will bring out socio-economic improvement of the area and will prove beneficial to the area.

Environment protection and its preservation is today the major concern all over the world. The environment proves that all the human activities on this earth are inter-connected, so much so that an environmental damage in the boundaries of one state has trans-border ramifications. Environmental destruction and pollution have seriously threatened the human life, health and livelihood.

Understanding the need to give back to the society, State SEIAA has made it mandatory to invest 2- 5 % of total project benefit cost in CSR activities ie. Approx rs.14000 (2 % of project cost) In the present case, the project proponent have decided to invest with various activities such as:

1. Medical Checkups in the village
2. Betterment of village roads.

These activities shall be in consultation with the local authority and shall be need based, so as to provide maximum benefit to the locals.