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बिहार सरकार
खान एवं भूतत्व विभाग।

पत्रांक— 2284 / एम0, पटना,
प्रेषक,

दिनांक— 03/05/2023

सुरेश प्रसाद,
विशेष कार्य पदाधिकारी।

सेवा में,

Email

M/s YFC PROJECTS PRIVATE LIMITED

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विषय:— गया जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) के खनन योजना के अनुमोदन के संबंध में।

महाशय,

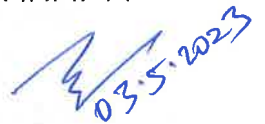
उपर्युक्त विषय के संबंध में कहना है कि बिहार बालू खनन नीति-2019 यथा संशोधित एवं बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) के नियम-17 में वर्णित प्रावधानों के तहत गया जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत समिति द्वारा समीक्षा की गई। समीक्षोपरांत निम्न शर्तों एवं बंधेजों के तहत खनन योजना अनुमोदित की जाती है —

1. उक्त खनन योजना केन्द्र सरकार/राज्य सरकार द्वारा विनियमित अन्य सभी अधिनियम/नियमावली में वर्णित प्रावधानों को तथा किसी न्यायालय/अन्य न्यायिक संस्था द्वारा पारित किये गये न्यायादेश को बिना प्रभावित किये अनुमोदित किया जा सकता है।
2. उक्त खनन योजना का अनुमोदन खान एवं खनिज (विकास एवं विनियमन) अधिनियम, 1957 (यथा संशोधित), बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 के नियम-17, वन संरक्षण अधिनियम, 1980, पर्यावरण सुरक्षा अधिनियम, 1986, श्रम संबंधी नियम, EMGSM 2020 तथा अन्य सभी सुसंगत अधिनियम/नियमावली तथा उनमें वर्णित प्रावधानों के प्रतिकूल नहीं होगा। लीज के रकवा के अनुसार प्रति हेक्टेयर कम से कम 10 पौधा लगाना होगा तथा 50 प्रतिशत Survival सुनिश्चित करना होगा।
3. खनन योजना में निहित शर्तों का पालन करते हुए ही बालू खनिज का खनन तथा प्रेषण किया जायेगा।
4. संबंधित सक्षम प्राधिकार से यथा वांछित प्रमाण-पत्र प्राप्त कर विभाग को अवगत कराना अनिवार्य होगा।
5. यदि किसी भी समय खनन योजना में वर्णित शर्तों के अनुपालन में अनियमितता पायी जाती है, तो खनन पदाधिकारी को नियमानुसार आवश्यक कार्रवाई करने का अधिकार होगा।
6. संबंधित बालूघाट में खनिज की उपलब्धता, पहुँच पथ का निर्माण तथा अन्य खनन कार्यों से संबंधित सम्पूर्ण जबाबदेही बालूघाट संचालनकर्ता की होगी तथा इसमें किसी भी तरह का कोई दावा अथवा क्षतिपूर्ति मान्य नहीं होगा।
7. खनन योजना में वर्णित सभी तकनीकी तथा अन्य बिन्दुओं से संबंधित ऑकड़ों की सत्यता / वैधता की जिम्मेवारी RQP/बंदोबस्तधारी की होगी तथा भविष्य में उपर्युक्त के संबंध में किसी प्रकार की भिन्नता/अनियमितता की पूरी जबाबदेही RQP/बंदोबस्तधारी की होगी।

8. खनन् कार्य के दौरान घाट संचालनकर्ता द्वारा पर्यावरण संबंधी मानकों का नियमित रूप से अनुश्रवण करने की व्यवस्था करनी होगी। खनन् कार्य के दौरान नदियों के प्राकृतिक बहाव आदि में किसी भी तरह का व्यवधान/रूकावट/बदलाव करना पूर्ण रूप से प्रतिबंधित होगा।
9. बालूघाट में Secondary Loading की व्यवस्था इस प्रकार सुनिश्चित की जाएगी ताकि गीला बालू का परिवहन नहीं हों।
10. यद्यपि खनन योजना में Semi-mechanised mining को प्राथमिकता दी गयी है तथापि Manual Mining पर कोई प्रतिबंध नहीं रखा जाएगा एवं स्थानीय व्यक्तियों को नियोजन देने के दृष्टिकोण से Manual Mining को उचित अवसर प्रदान करना होगा।
11. सफल डाकवक्ता/बंदोबस्तधारी द्वारा खान एवं खनिज (विकास एवं विनियमन) अधिनियम, 1957, बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) तथा बिहार बालू खनन नीति, 2019 के प्रावधानों का अनिवार्य रूप से पालन किया जायेगा।
12. सफल डाकवक्ता/बंदोबस्तधारी को पर्यावरण सुरक्षा हेतु सभी उपाय करने होंगे तथा नियमित रूप से जल/वायु की गुणवत्ता की जाँच/अनुश्रवण की व्यवस्था सुनिश्चित करनी होगी।
13. सफल डाकवक्ता/बंदोबस्तधारी को उत्पादन/प्रेषण का आँकड़ा एवं पंजी संधारित करना अनिवार्य होगा जिसे नियमित रूप से अद्यतन किया जाएगा।
14. संचालन करने वाले घाटों की सीमांकन कराना, RL/PL प्राप्त करना एवं उसे खनन के क्रम में संधारित कराना सफल डाकवक्ता/बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/अंचलाधिकारी की उपस्थिति में प्रमाणित करवाकर खनन कार्य करना होगा।
15. बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) में वर्णित प्रतिबंधित क्षेत्रों में किसी प्रकार का खनन् कार्य वर्जित होगा।
16. बालूघाटों से बालू का निष्कासन एवं प्रेषण आबादी से सटे ग्रामीण सड़क को छोड़कर अलग मार्ग से करना होगा।
17. खनन योजना की एक-एक प्रति, जो संबंधित RQP द्वारा प्रत्येक पृष्ठ पर हस्ताक्षरित होगी, निदेशक, खान एवं भूतत्व विभाग के कार्यालय के अतिरिक्त समाहर्ता, गया के गोपनीय कोषांग, उपनिदेशक, मगध अंचल, गया के कार्यालय में उपलब्ध कराना सुनिश्चित किया जायेगा, ताकि किसी भी समय इसकी जाँच की जा सके।

प्राधिकृत समिति की अनुशंसा के आलोक में उपरोक्त शर्तों के साथ गया जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन् कार्य सुनिश्चित कराया जायेगा।

विश्वासभाजन

 03.5.2023

(सुरेश प्रसाद)

विशेष कार्य पदाधिकारी

AL

MINING PLAN

WITH PROGRESSIVE MINE CLOSURE PLAN

Submitted under Rule (17) of Bihar Minerals (concession, prevention of illegal
transportation & storage) Rules 2019

OF

BLOCK-32 (GAYA MORIHAR – 19) SAND GHAT RIVER - MORIHAR

in Mauja- Itwan, Baital, Uchla, Manjholiya, Shri Rampur,
Anchal- Bankey Bazar, Dist- Gaya, (Bihar).

APPLIED AREA- 250 HECTARES

PLAN PERIOD: FOR FIVE YEARS

For YFC PROJECTS PRIVATE LIMITED

Director



Settlee

M/s YFC Projects Private Limited
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For YFC PROJECTS PRIVATE LIMITED

Director
Director



LIST OF ANNEXURES

ANNEXURE NO.	NAME OF ANNEXURE
1	COPY OF LETTER OF INTENT
2	COPY OF RQP CERTIFICATE

LIST OF PLATES

PLATE NO.	LIST OF PLATES
1	LOCATION MAP
2	GOOGLE & ROUTE MAP
3	KEY PLAN
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5	SURFACE GEOLOGICAL PLAN
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7A	DEVELOPMENT PLAN (PRE MONSOON)
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8	CONCEPTUAL PLAN
9	PROGRESSIVE MINE CLOSURE PLAN

For YFC PROJECTS PRIVATE LIMITED

Prayadax
Director



MINING PLAN

For YFC PROJECTS PRIVATE LIMITED

D. J. Das
Director



PART A
CHAPTER-I

I. INTRODUCTION

1.1	Settlee Name & Full address Phone. No. E-mail ID	M.s YFC Projects Private Limited Director- Davindar Kumar Yadav S/o- Jag Ram Yadav Add.- 43, Sector-15, Part-I, Gudgawan, 122001 (Haryana). 9871903517 manish.yadav@yfcprojects.com
1.2	Letter no. / date of lease execution & lease period	District Magistrate issue LOI on letter no. 5827/khanan dated. 31.12.2022 for a period of 05 years (Annexure No -I)
1.3	Settlee post/social status	Private
1.4	Mineral or Minerals which the Settlee intends to mine	Sand
1.5	Applied area for mining lease	Block-32 (Gaya Morhar - 19) Sand Ghat Lease has an applied area of 25.0 Hectare.
1.6	Name & address of RQP & Regd. No. Mobile No. E-mail ID	Er. Pravin Kt Sinha Reg. No. - RQP/BIH/SR.NO.20 Letter No. 3825 Dated 07/11/2019 Consultant : P & M Solution 201, Mangal Market Raja Bazar, Patna (Bihar) 9889024004 & 7542949027 indusminingbihar@gmail.com
1.7	RQP Certificate	RQP certificate copy attached as Annexure 2
1.8	Name of the Prospecting agency	The base data is collected from various geological reports of the Department of Mines & Geology and local authorities as well as detailed prospecting of the area is carried out by the RQP.
1.9	Status of Environmental clearance	After Mining Plan approval then Settlee shall submit application to state Environment Impact Assessment Authority (SEIAA) of Bihar for environment clearance.
2.0	Date of Survey	03.01.2023

For YFC PROJECTS PRIVATE LIMITED

Davindar
Director

CHAPTER-2

2. PROJECT DESCRIPTION

2.1 JUSTIFICATION OF PROJECT

Sand is a ubiquitous material; available everywhere and is being used from the time immemorial for wide applications in our daily life; infrastructures, building construction, highways, roads, townships, multiplexes, foundations of buildings and industrial units etc. and is an integral part of development. Over the millennia, the weathering effect, the flow of water at high velocities in rivers and the pressure of water from the high mountainous reservoirs converted and pushed the hard ground underneath into sand, etc. which travelled as sediments with the flow. Huge amount of sand get deposited along the river course wherever conditions were favorable. As a result of continuous deposit of sand, the rivers may change their course, by widening itself and expanding, can result in flooding, inundation and breaking their banks, may cause devastation of property and loss of life. The rivers thus, needed channelization and therefore, extraction of sand through mining was expedient. The haphazard mining of sand being practiced now for long, through unregulated, uncontrolled and illegal way added almost an irreversible damage to the environment, which became a cause of serious concern to everyone. Though sand is a very important mineral source for development, its mining through scientific methods has also become equally imperative.

It is for this purpose that 'mining plan' is being drawn so that all its aspects are taken care of justifiably, according to law, protecting the environment, removing all adverse impacts and creating a direct and indirect employment opportunities, improving socio-economic conditions of the local inhabitants and all-around status of life, achieving thereby a sustainable development.

Besides the above, the process of mining of minor minerals (Sand) is a constant source of revenue generation to the State Government through Royalty.

For YFC PROJECTS PRIVATE LIMITED

Pradeep
Director



2.2 BACKGROUND OF THE PROJECT

The Department of Mines & Geology, Bihar required under Bihar Minerals (Concession, Prevention of Illegal Mining, Transportation & Storage) Rules, 2019 & Bihar Sand Mining Policy, 2019. The general conditions of mining lease for minor minerals are mentioned here below:

- First the State Government shall identify the areas which are suitable for river bed mining based on quantity of the minor minerals available and suitable from ecological and environmental aspects as well.
- Under rule 17 (4) Approval and submission of Mining Plan - All Mineral Concession Holders or the Government/Corporation as the case may be shall submit a mining Plan duly prepared by an RQP and approved by the Director or any officer / person/academic institution/Govt. agency authorized by the Department in this regard within a period of three months from the date on which communication regarding grant of mineral concession is received or such other period as may be decided/ allowed by the department for the submission of the approved Mining Plan.
- While preparing the mining plan, proper attention has been paid to ensure that the relevant provisions under MMDR Act-1957, MMR-1961, Mines Act-1952 & Mines Rules-1955, Sustainable Sand Mining Guidelines - 2016 and Enforcement & Monitoring Guidelines for sand Mining - 2020 have been followed. All safety measures, provided in the statute, will be taken into consideration. On, 17.09.2019 Bihar Government took its policy decision vide notification no. - 4/V.Mu-20-93 / 18-3174 /M. That all Mining Lessee / Settlee under rule 17 of the said Rules, the lessee shall submit the mining plan with Progressive Mine closure plan for approval to the competent officer, Department of Mines & Geology, Bihar
- Mining operation to be in accordance with Environmental clearance.
- For baseline data assistance has been taken from the data, available from local authorities.

2.3 RESTRICTED AREAS FOR SAND QUARRYING

- i. The quarrying of sand shall be prohibited within up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
- ii. No quarrying shall be permitted within 50 (fifty) meters of any public place i.e. cremation Ghat or any religious place etc.
- iii. No quarrying shall be allowed to be extracted where erosion may occur, such as at the concave bank.

- iv. The quarrying of sand shall be prohibited within 100 (one hundred) meters upstream and downstream from any dam/weir or any other structure erected for irrigation purpose.
- v. Sand Ghats should preferably be located on the river side embankment. For low embankment less than 6 meters height, quarrying should not be done within 25 meter from toe/heel of the embankment and depth of mining should not be more than 1.0 meter. In case of higher embankments, the distance should not be less than 50 meter and depth of mining should be maximum 1.50 meter and at a distance of 75 meter or more mining depth should be maximum 2.0 meter. In order to obviate the development of flow parallel to embankment, crossbars of width eight times the depth of mining pits spaced at 50 to 60 meters center to center should be left in the mining pits.
- vi. The irrigation outlet shall be maintained at the same level as that of the river bed and in no case, the river bed level shall be permitted to be below the irrigation outlet level. No quarrying shall be permitted around the infiltration well/intake well up to a distance of 5 meters.
- vii. No quarrying of sand shall be permitted in any private land owned by a person other than a settlee unless the settlee obtains the consent of the concerned land owner/raiyat.
- viii. No quarrying of sand shall be permitted in any area which the State Government notifies as restricted area.
- ix. Mining depth should be restricted to 3 meters and distance from the bank should be 1/4th of river width and should not be less than 7.5 meters.
- x. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
- xi. A buffer distance /un-mined block of 50 meters after every block of 1000 meters over which mining is undertaken or at such distance as may be directed/prescribed by the regulatory authority shall be maintained.
- xii. River bed sand mining shall be restricted within the central 3/4th width of the river/rivulet or 7.5 meters (inward) from river banks but up to 10% of the width of the river, as the case may be and decided by regulatory authority while granting environmental clearance in consultation with irrigation department. Regulating authority while regulating the zone of river bed mining shall ensure that the objective to minimize the effects of riverbank erosion and consequential channel migration are achieved to the extent possible. In general, the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report.

CHAPTER-3

3. LOCATION, GENERAL AND ACCESSIBILITY

3.1 LOCATION

(a) Details of the area

(i)	Lease-hold area	25.0 Hect.		
	Location	The Block-32 (Gaya Morhar - 19) Sand Ghat fall in Mauja Itwan, Baital, Uchla, Manjholiya, Shri Rampur, Anchal-Bankey Bazar, Sherghati, Dist- Gaya, (Bihar). The location plan is enclosed (Plate No. 1)		
(ii)	Mining Lease Map	Khata No. - 146, 232, 171, 77, 203 Khesra No. - 515, 420, 617, 1, 2, 3, 689, 249, 269, 1, 1857, 1858. Thana No.- 395, 411, 403, 410, 413. Google Map of Block-32 (Gaya Morhar - 19) Sand Ghat is attached as Annexure no. 3.		
(iii)	District & State	Gaya, Bihar		
(iv)	Mining Plot	Sand Ghat	River	Area (ha)
		Block-32 (Gaya Morhar - 19) Sand Ghat	Morhar	25.0
		Total		25.0
(v)	Name of Ghat	Block-32 (Gaya Morhar - 19) Sand Ghat of 25.0 hectares.		
(vi)	Ghat details	25.0 ha (Morhar River bed)		
(vii)	Coordinates	The area & geographical coordinates of Block-32 (Gaya Morhar - 19) Sand Ghat is given in Table No.1 Toposheet No. -72D/10, 72D/11, 72D/14, 72D/15.		

BLOCK-32 (GAYA MORHAR-19) SAND GHAT CO-ORDINATES

S. No	Sand Ghat	Area (in Ha)	Co-ordinates		Ghat/Village	River
1	Block-32 (Gaya Morhar 19)	25.0	A	24°31'40.03"N 84°44'3.33"E	Mauja- Itwan, Baital, Uchla, Manjholiya, Shri Rampur, Anchal-Bankey Bazar, Sherghati, Dist- Gaya, (Bihar).	Morhar
			B	24°31'35.14"N 84°44'5.21"E		
			C	24°31'18.33"N 84°43'30.81"E		
			D	24°31'21.94"N 84°43'29.41"E		

(b) Key plan of area:-

Key plan of Block-32 (Gaya Morhar - 19) (Morhar river) is attached as **Plate-2**.

Total mining area is completely outside of any restricted or protected area by any state or central government

3.2 GENERAL

(a) Mineral being worked	Sand
(b) Period of Mining Lease	The lease period has been granted for Five years.
(c) Category of Land used	The mining area is inactive channel of riverbed
(d) Relief of Plot	Block-32 (Gaya Morhar - 19) Sand Ghat (151.6 ASML to 148.7 ASML)
(e) Existing pits	As the mining area is of river bed and it will be replenished every year no pits will be formed.
(f) Type of lease area:	Total area is almost hundred percent river bed flood plain land & it is free from forest land.
(g) Present land use pattern:	The existing land use is given below:

Sr. No.	Land use	River bed (Ha)	Forest Land (Ha)	Barren land (Ha)	Grazing Land (Ha)
1	Mining pits Quarry	-	-	-	-
2	Approach Road	-	-	-	-
3	Dumps	-	-	-	-
4	Office, Resht Shelter etc.	-	-	-	-
5	Balance undisturbed land	25.0	-	-	-
	Total	25.0	-	-	-

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3.3 ACCESSIBILITY

Gaya is about 100 kilometers south of Patna, and is situated on the banks of Morhar River. It is a place sanctified by both the Hindu and the Buddhist religions. It is surrounded by small rocky hills (Mangala-Gauri, Shringa-Sthan, Ram-Shila and Brahmayoni) by three sides and the river flowing on the fourth (western) side. It is located at a Longitude of 84.40 to 85.50 towards East and the latitude is 24.50 - 25.100 towards North.

Project site is falls in Mauja Itwan, Baital, Uchla, Manjholiya, Shri Rampur. Site is well connected by Sherghati Main road which is at distance of approx. 1 km in NW direction. Nearest NH/SH is SH - 69 at approx. 2.40 Km in NW. Nearest railway station is Gurus Railway Station at distance of approx. 31.95 km in NE. Nearest airport is International Airport Patna at distance of approx. 123.60 km in NE.

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CHAPTER-4**4.1 GEOLOGY & EXPLORATION****Topography and general geology and local / mine geology of the mineral deposit including drainage pattern**

The district of Gaya is broadly divided into two distinct physical units. The south is a region of broken undulating country merging into long ranges of hills, with a wide belt of brushwood jungle at their base. Much of this tract is high and barren and incapable of much cultivation; the soil has poor crops and the population is sparse. These high lands project into the alluvial plains to the north as spurs from the Chhotanagpur Plateau. The greater part of the district, however, consists of the flat alluvial plain. This wide alluvial plain of the north forms part of the Gangetic depression with alluvial deposits of immense depth and is broken here and there by groups and low ranges of hills or isolated peaks arising abruptly from the level country at their feet. The alluvial plain is protected from drought by a wonderful system of indigenous irrigation consisting of churs (reservoirs) and pains (channels). It is, therefore, a region of great fertility when compared with the southern part of the district and is comparatively densely populated. The northern portion, which is highly cultivated and extensively irrigated.

General Geology

The main geological formation of the region is of Quaternary age. The area is mostly covered by unconsolidated sediments which is known as Alluvial deposits followed by consolidated deposits of Satpura range. Few areas are also characterized by units of Archaean ages. The Satpura range mainly exposed in Gaya hills and Rajgir hills comprises low grade supracrustals – Schists, ferruginous phyllite, quartzites and phyllitic slate. The Archeans are the oldest rock formation in the area. The most predominant rock type is gneisses and granites with basic intrusives and medium to fine sand geologically the area comprising of terrace alluvium deposited in depositional terraces of old rivers & contain cyclic sequence of fine to coarse grained sand. It is angular to sub angular and the angularity of the grains of this category of sand decreases with depth.



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Regional Geology

Geologically, it represents nearly two third of Bihar is under cover of Ganga basin composed of alluvium and masks the nature of basement rocks.

Showing the Geological Succession and their Occurrences distribution

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
Vindhyan	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 & intrusive all metamorphosed sedimentary and igneous rocks	Part of Aurangabad, Gaya, Nawada, Jamui, Banka and Bhagalpur

4.1.3 GEOLOGY OF THE AREA

The area is dominated by medium to fine sand geologically the area comprising of Terrace alluvium deposited in depositional terraces of old rivers & contain cyclic sequence of fine to coarse grained sand. It is angular to subangular and the angularity of the grains of this category of sand decreases with depth. The Litho unit shown on the geological map of the leased out area have been plotted on the basis of physical characteristics observed in the field. Sand and silt are deposited in the middle of the river whereas fine sand and soil are deposited at the fringe of the river banks. Soil/ alluvium varying in thickness from 0.20m to 0.60m m constitute the top



horizons in the area suitable for agriculture. River Falgu & Morhar meanders through the area exposing the alluvium and soil at the banks.

The litho units encountered in the riverbed and surrounding areas belongs to the Shivalik super groups. The size of the sediments towards the source i.e. host rock is coarse and at the tail end of the river the grain size is reduced to smaller sizes resulted in the formation of clay beds. The following sequences have been observed in the area. i.e. Top soil/ Alluvium followed by sand deposition (as shown in the figure below).



Sand and silt are deposited in the middle of the river whereas fine sand and soil are deposited at the fringes of the riverbanks.

Soil/ alluvium varying in thickness from 0.20m to 0.60m to constitute the top horizons in the area suitable for agriculture. River Ganga meanders through the area exposing the alluvium and soil at the banks. Sand is found in the river bed upto a depth of more than 3.0 m. The major part of bed remains dry as water flows in a single stream during the non-monsoon seasons. Only during rainy seasons the entire flood plain has water, when there will be no mining done.

4.2 ORIGIN & CONTROL OF MINERALIZATION (ANNUAL REPLENISHMENT OF MINERAL IN RIVER BED AREA/SEDIMENTATION)

Sedimentation, in the geological sciences, is a process of deposition of a solid material from a state of suspension or solution in a fluid (usually air or water). Broadly defined river sand is a product of natural weathering of rocks over a period of millions of years and these materials get collected under the impetus of gravity alone, as in talus deposits, or accumulations of rock debris at the base of cliffs. The term is commonly used as a synonym for sedimentary petrology and sedimentology.

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Sedimentation is generally considered by geologists in terms of the textures, structures, and fossil content of the deposits lay down in different geographic and geomorphic environments.

The factors which affects the "Computation of Sediment":

Geomorphology & Drainage Pattern: The following geomorphic units plays important role:

- Structural Plain
 - Structural Hill
 - Structural Ridge
 - Denudation Ridge & Valley
 - Plain & Plateau of Gangetic plain
 - Highly Dissected pediment
 - Un-dissected pediment
- b) Distribution of Basin Area River wise
- c) Drainage System/Pattern of the area, Rainfall & Climate: Year wise Rainfall data for previous 10 years .
- e) As per Dantly & Bolton study "Sediment Yield" can be related to
- i) Catchment Area and
 - ii) Mean Annual Run-off

Sand is an essential minor mineral used extensively across the country as a useful construction constituent and variety of other uses in sports, agriculture, glass making (a form of sand with high silica content) etc. It is common knowledge that minerals are non-renewable but this form of mineral naturally gets replenished from time to time in a given river system and is very much interrelated to the hydrological cycle in a river basin.

Sand mining has become a widely spread activity and does not require a huge set up or technology, the number of ventures has increased extensively and it has become a footloose industry in itself but the backward-forward linkages are becoming stronger as many are getting employed as well as the construction activity / industry requires this mineral at consistent rates. Riverine environmental systems are unique in themselves and provide environmental services, natural resources to meet variety of needs of urban and rural communities.

4.2.1 REPLENISHMENT STUDY OF MINED AREA OF MORHAR RIVER:-

Replenishment Rate is the rate at which Bajri is transported into the river channel, which is under examination or subjected to sand extraction. This volume is often considered as sustainable yield of that river. Estimation of Bajri discharge through stream bed and its residence period (temporary deposition) is one of the most difficult task in sediment budgeting

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The rate of gross or absolute silt production (erosion) in the watershed and the ability of the stream system to transport the eroded material in a river and then to a reservoir has the direct relation with the quantity of sediment delivered into a reservoir. It has been observed that the average rate of sediment production decreases as the size of drainage area increase and the larger watershed the lesser is the variation between the rates. The larger watershed presents more opportunity for deposition of silt during its traverse from the point of production. The total amount of eroded material, which reaches a particular hydraulic control point, is termed as sediment yield. The sediment control of inflow is governed by Character of run-off; Susceptibility of soils; the extent and density of vegetative cover in the area; and the hydraulic efficiency of the drainage system.

This report quantifies the annual replenishment of bed material in the Morhar River during periods of sediment transport at high flows within the mined area. It provides estimates of the amounts of sand & bajri which will be used in construction and for other uses.

4.2.2. METHODOLOGY FOR REPLENISHMENT STUDY:-

The methodology used for Replenishment study is based on the measurement of volumetric survey at selected points as monitoring stations within the lease area in Pre-monsoon season & Post Monsoon season respectively. For the said project replenishment study has been done during the post-monsoon season has done by field survey (volumetric survey) method. Firstly Volumetric Survey was done in the proposed mining block. By this method spot RL/level are marked & mapped and sections are drawn for several monitoring locations within the mine area. After that, for post-monsoon season again spot RL/level are marked & mapped on the same location and sections are drawn. The RL(m) observed during Pre-monsoon season of all locations.

Table 7. volumetric survey measurement

Classification	Code	Quantity of Sand
A) Mineral Reserves		Cum
1) Proved Mineral Reserves	111	750000
Total		750000

Replenished quantity of sand = 750000 cum, or 1350000 tonnes.

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4.3 EXPLORATION

Mining of sand is being done since long time therefore no specific method of exploration is required as the sand, deposited all along the bed and its pale channels, which is very well exposed on the surface. The minerals excavated from the river bed will be replenished gradually during the monsoon season every year. And the area pertaining to paleochannels of the river will be leveled & restored back. Adequate quantity of Sand in reserves is available for meeting consumer demand.

4.4 MINERAL RESERVES

The Mineral reserves have been estimated as per the Indian Standard Procedures. The area of the mining lease is 25.0 Hectares and the average thickness of the river bed minerals estimated as 3.0 mt.

4.4.1 PARAMETERS OF RESERVE ESTIMATION:

The geological reserves have been estimated as per UNFC guidelines in all the three axis.

Economic Axis (E-1): The Sand is exists with in the entire stretch & having no problem selling in the market. The road is near the Ghat & sand shall loaded into tippet with the deployment of an excavator & transport to various parties. The land is State Govt. land & State Govt. has given its consent for the exploitation of Sand on their expensive land. On the feasibility study, economic viability of deposit has been established sand is economic viable, therefore economic axis has been considered as E-1.

Feasibility Status (F-1): Feasibility study has been carried out & is considered to be feasibility status. A feasibility study provides a preliminary assessment with a level of confidence as compared to that of feasibility study. It has been revealed that exploitation of sand is feasible & economic viable & feasibility axis under UNFC code has been considered as F-1.

Geological Axis: The exposure of sand is seen in the entire stretch & thickness of sand varies 2.5m to 3.0m. Therefore geological axis has been considered as G-1

Geological Reserves

The geological reserves have been each stretches & for individual blocks. Geological reserves have been completed through cross sectional area method. The area of each section line is multiplied by strike influence to get the volume.

- i) **Proved Mineral Reserves (111):** All quantities of sand occurring upto depth of 3 m from surface has been considered as proved reserves.

Classification	Code	Quantity of Sand
A) Mineral Reserves		Cum
1) Proved Mineral Reserves	111	750000
Total		750000

Total Geological Reserve – **750000 cum. or 1350000 tonnes.**

*Bulk density is 1.8 g/cm^3

4.4.2 MINEABLE RESERVES:

Mineable reserves have been computed up to 3m depth from surface. Benches having height 1.5m & width 6.0m drawn from the ultimate pit limit. Area of each benches have been calculated multiplied by strike influence to get the volume. The volume multiplied by bulk density (1.8 g/cm^3) to get the tonnage.

The minerals excavated from the river bed will be replenished gradually during the monsoon season every year. And the area pertaining to palaeochannels of the river will be leveled & restored back.

Table-4.4:- Summary of mineable reserves of Sand Ghat as below:

BLOCK-32 (GAYA MORHAR - 19) SAND GHAT OF MORHAR RIVER

The mineable reserves are given in Table Nos.4

Bench Level (mRL)	Length (m)	Width (m)	Depth (m)	Volume (cum)	Tonnes
150-148.5	1086	211	1.5	343719	618694
148.5-147	1076	201	1.5	324414	583945
Total				668133	1202639

Total Mineable Reserve = 668133 CUM or 1202639 Tonnes

- Mineable reserve has been consider 60% approx. of geological reserve after applying the guideline of Enforcement & Monitoring Guidelines for Sand Mining 2020
- The proposed production grant in LOI is 450000 cum per year which is within the sustainable limit of mineable reserve.
- The BD for Sand has been adopted at 1.8 g/cm^3 [Noida Testing Laboratories]

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• **CLASSIFICATION MINERAL RESERVES:**

Sand Ghat	Area (Hect)	Geological Reserves (m3)	Mineable Reserves (m3)	Annual Permitted Reserve As per Lof (m3)
Block-32 (Gaya Morhar - 19) Sand Ghat	25.0	750000	668133	450000

The annual extractable RBM comes to 450000 CUM or 810000 Tonnes. It will be replenished after rainy season every year.

4.5 LIFE OF MINE

There is as such no specific life of the mine as the area under reference is inactive part of river bed of the river and its pale channels and whatever quantity of minor minerals are extracted from the Applied Area during five year; almost equal to extracted quantity of the same are replenished every year and the river bed area will be leveled & restored back. However, as lease has been granted for 5 years, mining will be done for the allotted time.

For YFC PROJECTS PRIVATE LIMITED

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Director



CHAPTER - 5

5.0 MINING

- Mining will be done as per the guidelines of Bihar Mineral (Concession Prevention of illegal Mining Transportation & Storage) Rules, 2019.
- This is an open-cast mining project. The operation will be semi-mechanized/OTFM with use of excavators/LCBs truck /tractors combination or Manually etc. The sand will be collected in its existing form.
- Sand Mining will be carried out only upto a depth of 3 m bgl or above ground water level (whichever is less), for river bed block.
- No drilling /blasting are required as the material is loose in nature.
- Proper benching of 1.5 m height and 6m width will be maintained for mining blocks as per guideline M.M.R-2019, under rule 115(1).
- Mining will be done only during the day time and completely stopped during the monsoon season.

Restriction on mining:

- i) Sand and gravel shall not be extracted up to a distance of 1 km from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
- ii) No quarrying shall be permitted within 50 (fifty) metres of any public place i.e. cremation Ghat or any religious place etc.
- iii) No quarrying shall be permitted within 5 (five) metres from both banks of the river.
- iv) The quarrying of sand shall be prohibited within 100 (one hundred) metres upstream and downstream from any dam/weir or any other structure erected for irrigation purpose.
- v) Sand Ghats should preferably be located on the river side embankment. For low embankment less than 6 metres height, quarrying should not be done within 25 metre from toe/heel of the embankment and depth of mining should not be more than 1.00 metre. In case of higher embankments, the distance should not be less than 50 metre and depth of mining should be maximum 1.50 metre and at a distance of 75 metre or more mining depth should be maximum 2.00 metre. In order to obviate the development of flow parallel to embankment, crossbars of width eight times the depth of mining pits spaced at 50 to 60 metres center to center should be left in the mining pits.

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- vi) The irrigation outlet shall be maintained at the same level as that of the river bed and in no case the river bed level shall be permitted to be below the irrigation outlet level. No quarrying shall be permitted around the infiltration well/intake well up to a distance of 5 meters.
- vii) The extraction of sand shall be permitted only after obtaining a No Objection Certificate from the Water Resources Department in the case of rivers where from irrigation channels are out flowing.
- viii) No quarrying of sand shall be permitted in any private land owned by a person other than the settler unless the settler obtains the consent of the concerned land owner/raiyat.
- ix) No quarrying of sand shall be permitted in any area which the State Government notifies as a restricted area.
- x) Sand and gravel shall not be allowed to be extracted where erosion may occur, such as at the concave bank.
- xi) Mining depth should be restricted to 3 meters and distance from the bank should be $\frac{1}{4}$ th of river width and should not be less than 7.5 meters.

5.2.1 PROPOSED METHOD OF MINING:

- Mining activity will be carried out by open cast manual/Mechanically method.
- No OB/ waste material will be produced in river bed. The sand shall be exploited upto depth of 3 m only through the formation of bench height 1.5m & width 6.0m. An approach road having width 6.0m & gradient 1:12 shall be provided for the movement of loading machineries & transportation of sand. The sand shall be exploited with the deployment of an excavator & filled into Tractors/Trucks & transported to various buyers.
- No drilling/ blasting are required as the material is loose in nature.
- Proper benching of 3 m height will be maintained.
- Roads will be properly made and sprayed by water for suppression of dust.
- Roads in the applied area for the movement of loaded tractors/ trucks will not have slopes more than 1 in 16.
- The mined out area shall be replenished each year during monsoon period and maintained in maximum original topography.
- Approach roads from the various blocks as already described earlier will be merging with permanent tar roads on both sides of the river for transportation of the mineral to final destinations.
- The Sand transportation shall be insured after the covering the vehicle Tarpaulin.



5.3 YEAR WISE PRODUCTION SCHEDULE:

The annual exploitation of sand from Block-32 (Gaya Morhar - 19) Sand Ghat are given below :-

YEAR	Over burden (cum)	ROM Sand (cum)	Saleable Sand (cum)
1 st	-	450000	450000
2 nd	-	450000	450000
3 rd	-	450000	450000
4 th	-	450000	450000
5 th	-	450000	450000

The annual extractable RBM comes to **450000 CUM** or **810000 Tonnes**. It will be replenished after rainy season every year.

5.4 CONCEPTUAL MINING PLAN

Mine Applied Area will be worked for Block 32 (Gaya Morhar - 19) Sand Ghat. However, as the digging depth will be restricted to 3 m only. This will be further replenished during rainy season. Sand Ghat will be worked systematically as the width is limited while length is much more. As the lease period is only 5 (Five) years, some of the area will be left un-worked at the end of lease period.

(i) Final Slope Angle to Be Adopted: Height of the bench is limited to 3 m while width of individual bench shall be kept 6.0m. River bank side will be protected by working in dry part of the river and by leaving safety distance of the width of the river of 5 meter. Bank side natural slope will not be disturbed. This will prevent collapse of bank and erosion. However, the height of the bank with respect to river bed is varying from 3-4 meters.

(ii) During plan period workings will be carried out in the Sand Ghat at a time of the Applied Area simultaneously. Scattered workings will ensure safety, remove congestion of vehicles and will have better control and management.

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(iii) Ultimate Capacity of Dumps: There will be no OB removal / during the plan period. Therefore no proposal has been envisaged for its separate dumping. No outside material will be filled up in the extracted zone.

The conceptual plan & section of each mining plots are attached with mine plan.

5.5 EXTENT OF MECHANIZATION:

The operation will be done by semi mechanized method / OTFM.

Following table gives the list of equipment to be used:

Table-5.2:- List of Equipment's to be used

S. No.	Name of machinery	Capacity	Fuel Consumption	No. of Machinery
1	JCB	1.00 m ³	10 Ltr/hr	2
2	Excavator	2.0 m ³	16 Ltr/hr	5
3	Trucks	12 tonnes	4 Ltr/hr	234
4	Tractors	04 Tonnes	2 Ltr/hr	110
5	Water Tanker	4000 liter	4 Ltr/hr	1
6	Light vehicles	As per requirement	4 Ltr/hr	1

5.6 QUANTITY OF HSD/ FUEL CONSUMPTION PER DAY

Table-5.3:- Quantity of HSD/Fuel to be used

S. No	Machine	Details of fuel (Diesel) requirements	Consumption Diesel (in lits/ day.)
1.	Excavator & JCB	Number of Excavator & JCB = 5&2 Diesel consumption by 2 jcb & 5 Excavators m/c in one shift working (i.e-10/15 litre/hr) =2*8*10 = 160 liters &	800 liters

		$5 \times 8 \times 16 = 640$ liters	
2	Tippers/Tractors	Number of Tractors & Trucks = 110 & 234 Diesel consumption by 234 trucks & 110 Tractors in one shift working (i.e.-4lt/hr.) & (i.e.-2 lt/hr.) $- 110 \times 2 \times 8 = 1760$ $- 234 \times 4 \times 8 = 7488$	9248 liters
3	Water Sprinkler	Number of Sprinkler=01 Diesel consumption by Sprinkler in one shift working.(i.e.-4lt/hr). $= 1 \times 10 \times 4 = 40$ liters.	40 liters
3	Extra	Transport vehicle, supervision vehicle, maintenance vehicle	50 liters
			Total=10138 liters

5.7 MINERAL PRODUCTION

The mining will be confined to excavation of sand to an extent depending upon availability and market demand. Production is taken tentatively upto a maximum of 810000 TPA as per marked demand.

For YFC PROJECTS PRIVATE LIMITED

Dy. Director
Director



CHAPTER -6

6.0 DRILLING AND BLASTING

No drilling and blasting shall be required to for the exploitation of river sand.

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CHAPTER-7

7.0 MINE DRAINAGE:

a) **LIKELY DEPTH OF WATER TABLE BASED ON OBSERVATIONS FROM NEARBY WELLS AND WATER BODIES:**

As per the proposed mining, the working shall be confined up to 3.0 m or above the ground water table whichever comes first. Hence no water is likely to be encountered. So there is no need of any such arrangements.

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CHAPTER-8

8.0 DISPOSAL OF WASTE MATERIAL

No waste as such will be generated at the site as all materials are saleable. If, at all silt clay will be generated along with the minerals will be used to dispose off in the low lying areas as spread, where plantation will be done after spreading top soil on it.

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CHAPTER-9

9.0 USE OF MINERALS

Sand has become a very important mineral for expansion of our society due to its many uses. It can be used for making concrete, filling roads, building sites, brick-making, making glass, sandpapers, reclamations, and etc.

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CHAPTER - 10

10.0 OTHERS

10.1 HAULAGE AND SURFACE TRANSPORT

Mode of transportation of material is by trucks/ Tractors of size of 12 tonnes / 4 tonnes capacity have been planned

Mining area is connected with an unmetalled (approach) road upto the nearest village and thereafter it is metalled road connected to State/National highway. The mine road is adequate to permit easy maneuverability of trucks allowing cross overs and changing points. Water is sprayed two times in a day by tractor mounted water sprinklers until dust remains airborne.

10.2 SITE SERVICES:

A temporary rest shelter will be provided for the workers near to the site for rest.

Provisions will also be made for following in the rest shelter:

- First aid box along with anti-venoms to counteract poison produced by certain Snakes / Reptiles, if any.
- Sanitation facility i.e. septic tank or community toilet facility will be provided for the workers.
- Canteen will be made available near the sites.

10.3 WATER REQUIREMENT

Total water requirement for the project is 7.5 KLD, its breakup is as under:-

Table: 10.1- Water Requirement of the proposed project

S.No.	Purpose	Water Requirement (KLD)
1.	Dust Suppression	3.0
2.	Domestic	2.0
3.	Green Belt	2.5
Total		7.5

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10.4 EMPLOYMENT:

The manpower requirement for the proposed project is tabulated below. This manpower is the permanent resource which excludes personnel's coming along with trucks / Tractors

Table 10.2:- Man power distribution of the proposed project

S. No.	Category	Numbers
1.	Administration	1
2.	Supervisor	2
3.	Skilled	8
4.	Un-skilled	50
TOTAL		61

The maximum annual production envisaged is **810000 TPA** which will be achieved every year that implies about **3240 tonnes per day**. 250-working days in a year. That implies 61 workers will meet the required production.

SAFETY PROVISION:

All provisions in safety rules & regulation will be maintained by providing required materials to the employees. The lessee will provide safety shoes, safety helmets to all the employees. There will be no violation of safety provisions.

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CHAPTER-11

11.0 MINERAL BENEFICIATION

Mineral Sand doesn't require processing or beneficiation. The excavated mineral will be directly loaded into the trucks.

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CHAPTER -12

12.0 ENVIRONMENT MANAGEMENT PLAN

12.1 SOLID WASTE MANAGEMENT

In this if top soil will be generated, will be used for purposed of applied for green belt development. Small amount of domestic waste will be generated by the workers at the site, which will be disposed off through proper municipal way. No other waste generation is expected.

12.2 PLANTATION

The area of the proposed project lies in the river bed and devoid of any forest land.

Mining activities in River Bed blocks will not cause any harm to riparian or aquatic vegetation as mining will be only in the dry river bed portions of the river leaving safety distance from the bank. Hence it proposed to plant trees along the banks (wherever possible), along the haul road sides or near the civic amenities in consultation with village authority/local bodies.

In river bed mining cases plantation will be done at the river banks. It is proposed to have plantation along the haul road sides on both sides to provide cover against dust emission and also to act as noise absorber. Plantation will also be carried out as social forestry programme in villages, school/ and the areas allocated by the village authority/local bodies. Every year 50 trees of will be planted with various types of species. List of species is recommended for plantation.

Native plants like Mango, Neem, Kadamb, Kathal, Peepal, Gulmohar, and other local species will selected in suitable combination, so that can grow fast and also have good leaf cover. It is proposed to plant.

12.3 ENVIRONMENT MANAGEMENT PLAN

1.	Top soil storage, preservation and utilization	Present mining area is river bed, therefore no generally no top soil is present, if found then quantities of top soil to be generated will be stacked separately, preserved and used for purposed of plantation therefore no proposal has been envisage for storage, preservation & utilization.
2.	Waste dump management	No waste will be generated during mining whatever material is collected is transported in its original shape. Hence no waste management is required. Small amount of domestic waste is expected, which will be disposed off in a proper way. No

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		waste will be thrown into the streams or left on the banks
3.	Plantation programme	Plantation will be done along both sides of roads and civic amenities in consultation with the local authorities. social forestry programme will also be conducted in the nearby villages.
4.	Quality of air	24 hourly samples twice a week for one month in each season except monsoon will be collected at the mine site and nearby villages and analyzed.
5.	Noise	Excavators used for mining & transportation vehicles used for dispatch of minerals are source of noise pollution at mine site. Hence periodical noise monitoring will be done. Ear muffs/protective equipments will also be provided for safety of the workers.
6.	Quality and make of water including surface and ground water	Mining will not have any impact on surface and ground water, however monitoring of parameters will be done once in each season.
7.	Soil	No major impact on soil due to mining operations is expected. Soil parameters will be monitored once in two years.
8.	Topography & drainage	Mined out area will be replenished every year during monsoon period in each stretches in each block in case of river bed blocks. Hence as such no topographical impact will be seen. A buffer zone will be left on either side of banks as safety measure. There is no stream crossing through the applied area which would show impact on drainage pattern.
9.	Local transport infrastructure	Trucks/dumpers are main vehicles running on the road for mineral transportation. The present road network is adequate to handle the load of this project. Water sprinkling on the haul roads/link roads will be done two times in a day to keep the dust suppressed. Also proper parking and traffic management will be followed.

For YFC PROJECTS PRIVATE LIMITED


 Director

CHAPTER- 13

CONCLUSION:

The proposed project involves collection of sand from inactive channel of river bed of Morhar river. Safety distance will be left intact to avoid bank erosion. Mining activity will be done except monsoon season. All necessary measures will be taken care to save environment and for safety purposes. Besides this extraction of sand every year will reduce the chance of flood level by removing the deposited mineral. This is very essential in order to prevent widening of the riverbeds and to prevent flooding off and damage to the adjoining areas. The sand extracted is in high demand in the local market which is used in making bridges, road & Building Material, etc.

This project operation will provide livelihood to the poorest section of the society. It provides employment to the people residing in vicinity directly or indirectly by the project. After all the proposed project will increase developmental activities and employment opportunities.

For YFC PROJECTS PRIVATE LIMITED

Pravin K. Singh
Director



PROGRASIVE MINE CLOSURE PLAN

For YFC PROJECTS PRIVATE LIMITED

Dr. J. K. Dey

Director



PROGRESSIVE MINE CLOSURE PLAN**1.0. INTRODUCTION:**

1.1	Settlee Name & Full address Phone. No. E-mail ID	M/s YFC Projects Private Limited Director- Davindar Kumar Yadav S/o- Jag Ram Yadav Add.- 45, Sector-15, Part-I, Gidgawan, 122001 (Haryana). 9871903517 manish.yadav@yfcprojects.com
1.2	Letter no. / date of lease execution & lease period	District Magistrate issue L.OI on letter no. 5827/khanan dated. 31.12.2022 for a period of 05 years (Annexure No. -1)
1.3	Settlee post/social status	Private
1.4	Mineral or Minerals which the Settlee intends to mine	Sand
1.5	Applied area for mining lease	Block-32 (Gaya Morihar - 19) Sand Ghat Lease has an applied area of 25.0 Hectare.
1.6	Name & address of RQP & Regd. No. Mobile No. E-mail ID	Er. Pravin Kr Sinha Reg. No. - RQP/BIH/SR.NO.20 Letter No. 3825 Dated 07/11/2019 Consultant : P & M Solution 201, Mangal Market Raja Bazar, Patna (Bihar) 9889024004 & 7542949127 indusminingbihar@gmail.com
1.7	RQP Certificate	RQP certificate copy attached as Annexure 2
1.8	Name of the Prospecting agency	The base data is collected from various geological reports of the Department of Mines & Geology and local authorities as well as detailed prospecting of the area is carried out by the RQP.
1.9	Status of Environmental clearance	After Mining Plan approval then Settlee shall submit application to state Environment Impact Assessment Authority (SEIAA) of Bihar for environment clearance.
2.0	Date of Survey	03.01.2023

For YFC PROJECTS PRIVATE LIMITED


 Director


a). **Location:** Block-32 (Gaya Morhar – 19) Sand Ghat fall in Mauja- Itwan, Baital, Uchla, Manjholiya, Shri Rampur, Anchal- Bankey Bazar, Sherghati, Dist- Gaya, (Bihar). The location plan is enclosed (Plate No. 1)

b). **Extent of Lease area:** 25.0 Hectares

c). **Type of lease area:** Total area is waste land & it is free from forest land

d). **Present land use pattern:** The existing land use is given below:

Sr. No.	Land use	River bed (Ha)	Forest Land (Ha)	Barren land (Ha)	Grazing Land (Ha)
1	Mining pits Quarry	-	-	-	-
2	Approach Road	-	-	-	-
3	Dumps	-	-	-	-
4	Office, Resht Shelter etc.	-	-	-	-
5	Balance undisturbed land	25.0	-	-	-
	Total	25.0	-	-	-

e). **Method of mining and mineral processing:**

- Mining will be done as per the guidelines of Bihar Mineral (Concession Prevention of illegal Mining Transportation & Storage) Rules, 2019.
- This is an open-cast mining project. The operation will be semi-mechanized/OTFM with use of excavators/JCBs truck tractors combination etc. The sand will be collected in its existing form.
- Sand Mining will be carried out only upto a depth of 3 m bgl or above ground water level (whichever is less), for river bed block.
- No drilling /blasting are required as the material is loose in nature.
- Proper benching of 1.5 m height and 6m width will be maintained for mining blocks as per guideline M.M.R-2019, under rule 11S(1).
- Mining will be done only during the day time and completely stopped during the monsoon season.

1.1. Reasons for Closure:

The closure plan is a plan by which reinstate condition can be created, so that justification to the mother earth can be done" said by James E. Hansen. In the case of river bed mining, the excavated sand gets replenished during every monsoon and the area pertaining to palaeo channels of the river will be levelled & restored back to its original topography. More or less, the river bed maintains its previous form, such that the main stream of river remains unchanged.

According to experience and rough estimation of the State Government whatever quantity of minor minerals is extracted from the said area during the year will be replenished every year by the River itself on account of its flow and velocity.

At present there is no foreseeable reason regarding closure of mine. The progressive mine closure plan is being submitted.

1.3. Closure plan preparation:**a). Name and address of the Lessee:**

M/s YFC Projects Private Limited
Director- Davindar Kumar Yadav
S/o- Jag Ram Yadav
Add.- 45, Sector-13, Part-I, Gudgawan,
122001 (Haryana).
Mob.- 9871903517
Email- manish.yadav@yfcprojects.com

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

Er. Pravin Kr Sinha
Reg. No. - RQP/BIH/SR.NO.20 Letter No. 3825 Dated 07/11/2019
Consultant :
P & M Solution
201, Mangal Market
Raja Bazar, Patna (Bihar)
9889024004 & 7542949027
Email ID: indusminingbihar@gmail.com

c). Name of the executing agency:

The Proponent shall execute himself the provision of mine closure plan.



For YFC PROJECTS PRIVATE LIMITED

Davindar
Director

2.0 Mine Description:

Topography and general geology and local / mine geology of the mineral deposit including drainage pattern

The district of Gaya is broadly divided into two distinct physical units. The south is a region of broken undulating country merging into long ranges of hills, with a wide belt of brushwood jungle at their base. Much of this tract is high and barren and incapable of much cultivation: the soil has poor crops and the population is sparse. These high lands project into the alluvial plains to the north as spurs from the Chhotanagpur Plateau. The greater part of the district, however, consists of the flat alluvial plain. This wide alluvial plain of the north forms part of the Gangetic depression with alluvial deposits of immense depth and is broken here and there by groups and low ranges of hills or isolated peaks arising abruptly from the level country at their feet. The alluvial plain is protected from drought by a wonderful system of indigenous irrigation consisting of ahars (reservoirs) and pains (channels). It is, therefore, a region of great fertility when compared with the southern part of the district and is comparatively densely populated. The northern portion, which is highly cultivated and extensively irrigated.

General Geology

The main geological formation of the region is of Quaternary age. The area is mostly covered by unconsolidated sediments which is known as Alluvial deposits followed by consolidated deposits of Satpura range. Few areas are also characterized by units of Archaean ages. The Satpura range mainly exposed in Gaya hills and Rajgir hills comprises low grade supracrustals – Schists, ferruginous phyllite, quartzites and phyllitic slate. The Archeans are the oldest rock formation in the area. The most predominant rock type is gneisses and granites with basic intrusives and medium to fine sand geologically the area comprising of Terrace alluvium deposited in depositional terraces of old rivers & contain cyclic sequence of fine to coarse grained sand. It is angular to sub angular and the angularity of the grains of this category of sand decreases with depth.

Regional Geology

Geologically, it represents nearly two third of Bihar is under cover of Ganga basin composed of alluvium and masks the nature of basement rocks.

For YFC PROJECTS PRIVATE LIMITED

D. S. Das
Director

Showing the Geological Succession and their Occurrences distribution

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 Bahddiha 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 & intrusive all metamorphosed sedimentary and igneous rocks	Part of Aurangabad, Gaya, Nawada, Jamui, Banka and Bhagalpur

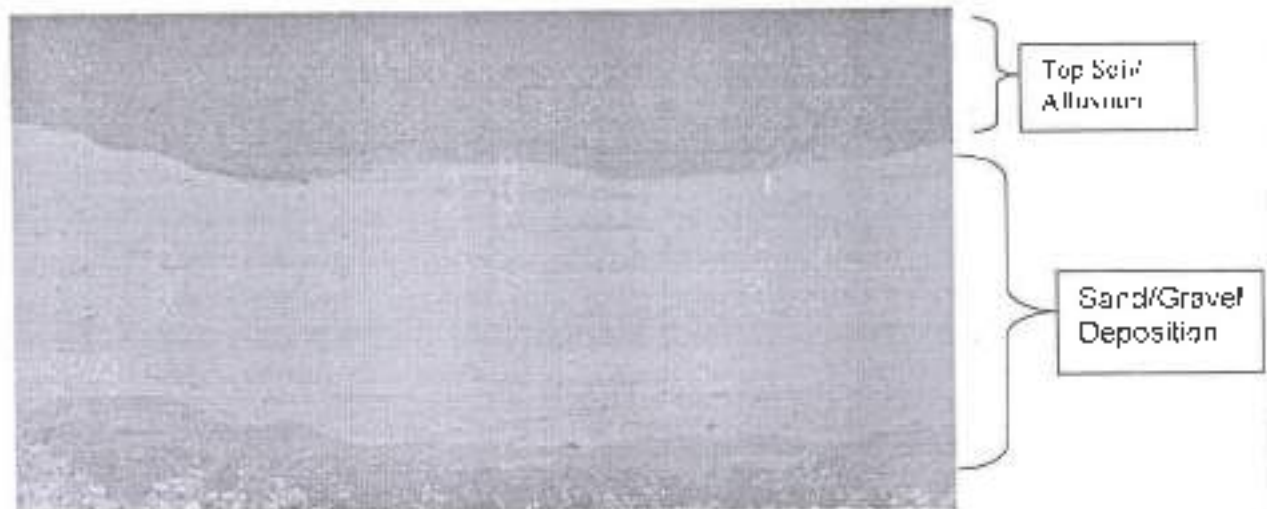
4.1.3 GEOLOGY OF THE AREA

The area is dominated by medium to fine sand geologically the area comprising of Terrace alluvium deposited in depositional terraces of old rivers & contain cyclic sequence of fine to coarse grained sand. It is angular to subangular and the angularity of the grains of this category of sand decreases with depth. The Litho unit shown on the geological map of the leased out area have been plotted on the basis of physical characteristics observed in the field. Sand and silt are deposited in the middle of the river whereas fine sand and soil are deposited at the fringe of the river banks. Soil/ alluvium varying in thickness from 0.20m to 0.60m m constitute the top horizons in the area suitable for agriculture. River Falgu & Morhar meanders through the area exposing the alluvium and soil at the banks.

For YFC PROJECTS PRIVATE LIMITED

Director

The litho units encountered in the riverbed and surrounding areas belongs to the Shivalik super groups. The size of the sediments towards the source i.e. host rock is coarse and at the tale end of the river the grain size is reduced to smaller sizes resulted in the formation of clay beds. The following sequences have been observed in the area, i.e. Top soil/ Alluvium followed by sand deposition (as shown in the figure below).



Sand and silt are deposited in the middle of the river whereas fine sand and soil are deposited at the fringe of the riverbanks.

Soil/ alluvium varying in thickness from 0.20m to 0.60m m constitute the top horizons in the area suitable for agriculture. River Ganga meanders through the area exposing the alluvium and soil at the banks. Sand is found in the river bed upto a depth of more than 3.0 m. The major part of bed remains dry as water flows in a single stream during the non-monsoon seasons. Only during rainy seasons the entire flood plain has water, when there will be no mining done.

DETAILS OF EXPLORATION:

a) **Already carried out in the area:**

No exploration has been carried out as sand lies all over the area & average thickness of sand is 3.0 m & area replenish every during the monsoon period. Therefore is no exploration has been carried out.

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

Sand average thickness of 3.0 m lies all over the area & area replenish every during the monsoon period. Therefore no proposal of exploration has been given.

For YFC PROJECTS PRIVATE LIMITED

Director
Director

2.2 Reserves:

BLOCK-32 (GAYA MORHAR - 19) SAND GHAT**Geological Reserves :-**

Classification	Code	Quantity of Sand
A) Mineral Reserves		Cum
1) Proved Mineral Reserves	111	750000
Total		750000

Total Geological Reserve 750000 cum. or 1350000 tonnes.

The mineable reserves are given in Table Nos.4

Bench Level (mRL)	Length (m)	Width (m)	Depth (m)	Volume (cum)	Tonnes
150-148.5	1086	211	1.5	343719	618694
148.5-147	1076	201	1.5	324414	583945
Total				668133	1202639

Total Mineable Reserve = 668133 CUM or 1202639 Tonnes

- Mineable reserve has been consider 60% approx. of geological reserve after applying the guideline of Enforcement & Monitoring Guidelines for Sand Mining 2020.
- The proposed production grant in LOI is 450000 cum per year which is within the sustainable limit of mineable reserve.
- The BD for Sand has been adopted at 1.8 g/cm³ [Noida Testing Laboratories]

• **CLASSIFICATION MINERAL RESERVES:**

Sand Ghat	Area (Hect)	Geological Reserves (m3)	Mineable Reserves (m3)	Annual Permitted Reserve As per LOI (m3)
Block-32 (Gaya Morhar - 19) Sand Ghat	25.0	750000	668133	450000

The annual extractable RBM comes to 450000 CUM or 810000 Tonnes. It will be replenished after rainy season every year.

For YFC PROJECTS PRIVATE LIMITED

Dr. D. D. D.
Director

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2.3 Mining Method:

Existing Method of mining:

It is fresh grant case of mining lease & at present no mining is being carried with the applied area.

b) Proposed method of mining:

- Mining activity will be carried out by open cast semi mechanized/OTFM method.
- No OB/ waste material will be produced in river bed. The sand shall be exploited upto depth of 3.0m only through the formation of bench height 1.5m & width 6.0m. An approach road having width 6.0m & gradient 1:12 shall be provided for the movement of loading machineries & transportation of sand. The sand shall be exploited with the deployment of an excavator & filled into Tractors/Trucks & transported to various buyers.
- No drilling/ blasting are required as the material is loose in nature.
- Proper benching of 1.5 m height will be maintained.
- Roads will be properly made and sprayed by water for suppression of dust.
- Roads in the applied area for the movement of loaded tractors/ trucks will not have slopes more than 1 in 16.
- The mined out area shall be replenished each year during monsoon period and maintained in maximum original topography.
- Approach roads from the various plots as already described earlier will be merging with permanent tar roads on both sides of the river for transportation of the mineral to final destinations.

2.4 Mineral beneficiation:

No mineral beneficiation will be under taken for next five years. The sand shall be exploited semi mechanized with shovel tractor trolley/tippers combination & transport to parties.

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

At is fresh grant case of mining lease it is therefore premature to make any comments about review of implementation.



4.0 Closure Plan:**4.1 Mined out land:**

Mining is proposed in one block. The mining shall be carried out during post monsoon season & depth of mining shall be restricted 3.0 m. Mining operation shall be suspended during monsoon period. The mined out pit shall be replenished during the monsoon period by sand and silt & leveled it. After over the monsoon period the replenish material shall be exploited manually as well as by means of an excavators & this process will continue.

The area already degrades due to mining & likely to be used during next five years is given below:

Activities	Area already used (Ha)	Area likely to be used in mining (Ha)
Pits & quarries	-	25.0
Approach road	-	-
Top soil Stack	-	-
Interburden dump	-	-
Backfilled pit	-	-
Total	-	25.0

(A) Mining:

Sl.No.	Activities	Area (Ha)
1.	Area already broken up	-
2.	Area already backfilled/reclaimed	-
Sl. No.	Activities	Area (Ha)
1.	Additional area proposed to be broken during next five years	-
2.	Additional area proposed to be replenished with flood water	-

(B) Dump:

Sl. No.	Activities	Area (Ha)
1.	Area already covered by dump	Nil
2.	Additional area to be covered by soil stack	-
3.	Additional area to be covered by interburden dump.	Nil
4.	Dump area to be covered by protective measures	-

For YFC PROJECTS PRIVATE LIMITED⁹

Director

(C) Plantation:

Sl. No.	Activities	Area(ha)
1.	Area already covered under plantation	-
2.	Area proposed to be covered under plantation in next five years (with in area)	-
	Total	-

4.2 Water Quality Management:

No ground water bodies exist within the area & no seasonal Nalla exists with in the area. The rain water accumulates in the pit & water percolates in to ground water. Further no significant impact on water quality is anticipated as material exposed will be Sand & its shall very feebly react with water that too when water becomes acidic. Even of reaction takes place it gives arise to increased temporary hardness of water. Water is being supplied from the Tuhewell.

4.3. Air Quality Management:

The mining shall be carried out semi-mechanized/OTFM with use of excavators/JCBs truck /tractors combination or Manually etc. No adoption of drilling & blasting mining shall be carried out in shallow depth. No doubt the mining in this remote area will deteriorate the air quality. The base line values are too low due to remoteness of the area with our past experience. In this kind of terrain, the SPM, SO₂ and NO_x will always below 100, 10 & 10 microgram per meter cube respectively. Air quality monitoring shall be conducted once in a year as per CCOM'S circular No 3/92.

4.4. Waste management:

No waste shall be generated due to mining activities. All quantities of sand to be generated shall be sold in the local market. Therefore no proposal of waste management has been envisaged.

4.5 Top Soil Management:

No soil shall be generated during plan period & no proposal has been envisaged for its separate stacking & this management.

4.6. Tailing Dam Management:

No tailing dam is proposed in the soapstone mine.



For YFC PROJECTS PRIVATE LIMITED

[Signature]

Director

4.7. Infrastructure:

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

4.8. Disposal of Mining Machinery:

It will be opencast semi mechanized mine. No disposal of mining machineries shall be envisaged during plan period.

4.9. Safety and Security:

1. Each worker shall be provided with helmets & safety shoes
2. Safety belt shall be provided to workers a working the top benches.
3. Hanging of loose materials shall be removed from mine faces.
4. The mining area shall be properly fenced to avoid any inadvertent entry in to mining pit.
5. Working hours shall be displaced at conspicuous places.
6. Mining shall be carried out thought the formation of benches maintaining overall pit slope 60deg.

4.10 Disaster Management and risk assessment:

The mining is proposed in a gentler agricultural field. The mining will go up to the economical depth of 3m therefore, no disaster management and risk assessment shall be observed. However during monsoon period the area shall be properly fenced with barbed wire to avoid any inadvertent entry of any live stock.

**For YFC PROJECTS PRIVATE LIMITED**

[Signature]
Director

5.0. Economic repercussions of closure of mine and manpower retrenchments:

All the workers being employed are contractor labours. An any industry will provide direct and indirect employment. The local residents will earn tremendous amount of money due to mining activities. It will change their life style. Due to closure of mine, it will create very negative impact on the economy of the workers for their survival. Those earning good money will get some occupation for survival of their families. The literate workers will move here and there for the search of job. In the overall view the closure of mine will give very bad impact on the society and surrounding areas.

- 5.1 Local residents of nearby villages will be employed in the mine. The family occupation is most by farming. Few of them occupation carpentry & masonry.
- 5.2 The lessee pay each year about 5,000 to 10,000 as a compensation for the sustenance of the few workers family.
- 5.3 About 30% of the workers employed in mine are independent but they are controlled depended by their family members.
- 5.4 The local residents will be employed in the mining operations, and allied activities related to mining operations.
- 5.5 During mining operations the land owners & society of the area shall earn lucrative amount of money from direct & indirect activities. Individual land owners shall also earn good amount of money in terms of royalty. Most of them will spend money to establish other business also. After mining, the total land shall be backfilled & agricultural activities shall be recommended. No repercussion should be observed during the closure of mine.

**For YFC PROJECTS PRIVATE LIMITED****Director**

6.0 Time Scheduling for abandonment:

It is proposed in the mining plan that mining will open from lower levels and subsequently advance towards higher elevations so that concurrent reclamation will be under taken to restore the topography of area. The mined area will be replenished during the monsoon period.

The year wise schedule of completion of quantities is given below:

Activities	YEAR				
	I	II	III	IV	V
Toe wall along Soil stack	-	-	-	-	-
Backfilling (Cum)	-	-	-	-	-
Plantation (No. of sapling, out side the area)	50	50	50	50	50

The tentative cost of implementation of activities during next five years is given below:

Sl. No.	Activities	Year					Total amount on Rs.
		I	II	III	IV	V	
1.	Toe wall (soil stack Rs. 40/m)	-	-	-	-	-	-
2.	Retaining at the edge of backfilled wall pit (Rs. 50/m)	-	-	-	-	-	-
3.	Plantation (Rs. 1000/- sapling with in the area)	50	50	50	50	50	250000
	Total						250000

The tentative cost (In Rs) of implementation of activities during next five years is given below:

Tree guard @ 800 per unit	800
Per plant species cost	100
Average Water demand cost per species Per Year	100
Total	1000

For YFC PROJECTS PRIVATE LIMITED

Director

7.0 Abandonment Cost:

The tentative cost for implementation of protective and rehabilitation measures, the proposal given in the mining plan for next five years period is as under:

Activity	Year						Rate In Rs.	Amount In Rs.
	I	II	III	IV	V	Total		
i) Toe wall at the base and side of soil stack (mtr)	-	-	-	-	-	-	40/m	-
iii) Retaining wall at the edge of backfilled pit (m)	-	-	-	-	-	-	-	-
iv) Plantation (no. of sapling with in the area.)	50	50	50	50	50	250	1000/-	250000
v) Reclamation(Cum.)	-	-	-	-	-	-	40/cum	-
Total								250000

For YFC PROJECTS PRIVATE LIMITED




8.0 Any other information:

Community Development: The expensed increased towards the socio-economic development is given below.

Proposed Action Plan Towards socio economic development	First Year to Fifth Year	
	Expenditure proposed (in Rs.)	Expenditure in occurred (in Rs.)
General Development of the area	-	-
i) Housing	50,000	-
ii) Water Supply	25,000	-
iii) Sanitation	20,000	-
iv) Health, Safety & Medical Facilities	30,000	-
Education & Training	30,000	-
Employment to local inhabitants; Land owner compensation; Supervisor & Headers etc.	1,00,000	-
Public Transportation & Communication	20,000	-
Recreation & other sports activities	20,000	-
Expenditure for environment management	15,00,000	-
Others (Compensation to land owners)	80,000	-

For YFC PROJECTS PRIVATE LIMITED



9.0 Financial Assurance:

The financial assurance has been calculated on the basis of following parameters:

Sl. No.	Head	Area put in use at start of plan (In Ha)	Additional requirement during plan period. (In Ha)	Total (in Ha)	Area considered as fully reclaimed & rehabilitated (In Ha)	Net area considered for calculation (In Ha)
1.	Area under mining	-	25.0	25.0	25.0	0
2.	Storage for top soil	-	-	-	-	0
3.	Interbarren/ dump	-	-	-	-	0
4.	Mineral storage	-	-	-	-	0
5.	Infrastructure (Workshop, administrative building etc.)	-	-	-	-	0
6.	Approach Road	-	-	-	-	-
7.	Railways	-	-	-	-	0
8.*	Green Belt	-	-	-	-	-
9.	Tailing pond	-	-	-	-	0
10.	Effluent Treatment Plant	-	-	-	-	0
11.	Mineral Separation Plant	-	-	-	-	0
12.	Township area	-	-	-	-	0
13.	Others to specify (retaining wall + toe walls)	-	-	-	-	-
	Grand Total		25.0	25.0	25.0	-

The total mined out area shall be replenished each year during monsoon period & no broken area will be remained in the applied area. Therefore, it is not possible to calculate financial assurance at this stage.

Date:

Place: Gaya

* Plantation will be done along both sides of roads and civic amenities in consultation with the local authorities.

For YFC PROJECTS PRIVATE LIMITED

Director
Director

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ANNEXURE

For YFC PROJECTS PRIVATE LIMITED

[Signature]
Director



AUTHORISATION LETTER BY THE APPLICANT/LESSEE

I, Davindar Kumar Yadav hereby authorise *Er. Pravin Kumar Sinha, Reg.No.- RQP/BIH/SR.NO.20 Letter No. 3825 Dated 07/11/2019* to prepare the Mining plan Submitted under Rule (17) of Bihar Minerals (concession, prevention of illegal transportation & storage) Rules 2019 in respect of M/s YFC Projects Private Limited at over an area of 25.0 Hectare for mineral(s) for Block-32 (Gaya Morhar - 19) Sand Ghat in Mauja- Ilwan, Baital, Uchla, Manjholiya, Shri Rampur, Anchal- Bankey Bazar, Dist- Gaya, (Bihar).

I request The Director, Department of Mines & Geology Patna, Bihar to make further correspondence regarding modification and to collect the approved copies of the aforesaid mining plan with the said recognized person on his following address:

Name of RQP : Er. Pravin Kr. Sinha
Reg. No. - RQP/BIH/SR.NO.20
Letter No. 3825 Dated 07/11/2019

Address of RQP

Consultant :
P & M Solution
201, Mangal Market
Raja Bazar, Patna (Bihar)
9889024004 & 7542949027
indusminingbihar@gmail.com



Proponent,

Place : Gaya

Date :

For YFC PROJECTS PRIVATE LIMITED


Director

Director- Davindar Kumar Yadav
M/s YFC Projects Private Limited

Certificate

1. Certified that the provisions of mines Act, Submitted under Rule (17) of Bihar Minerals (concession, prevention of illegal transportation & storage) Rules 2019 made there under have been observed in Block-22 (Gaya Morhar – 19) Sand Ghat Mining Plan, Mauja- Irwan, Baital, Uchla, Manjholiya, Shri Rampur, Auchal- Bankey Bazar, Dist- Gaya, (Bihar) and wherever specific permissions are required, the lessee will approach concerned authorities for granting permission.
2. The information furnished in Block-32 (Gaya Morhar – 19) Sand Ghat is true and correct to the best of my knowledge.



(Pravin Kumar Sinha)

Reg No. - RQP/BIH/SR NO.20

Letter No. 3825 Dated 07/11/2019

Place: - Patna

Date: -

For YFC PROJECTS PRIVATE LIMITED



(Approved RQP under Bihar Government)

For YFC PROJECTS PRIVATE LIMITED

Dr. J. K. Singh
Director



For YFC PROJECTS PRIVATE LIMITED

Director

20	Pravin Kumar Sinha	7542940027	B.E. (Mining)	Rs. 2,000/- per Hectare (Each Block Mining Plan - Rs. 30,000/-)	201, 2nd Floor, Mangal Market, Raja Bazar, Bailey Road, Patna-24
21	Mr. Tauseef Warsi Greenera Mining & Envirotech Pvt. Ltd.	9534027112	M.Sc. (Geology)	Rs. 5,000/- (Excluding GST)	Greenera Mining & Envirotech Pvt. Ltd., 205 Mangal Market, Raja Bazar, Bailey Road Patna-800014
22	Prabhat Kumar Srivastava	8827477206	B.E. (Mining)	Rs. 3,000/-	Flat No-101, Road No-01, Boodh Nagar, Chirya Tardi, Postal Park, Patna-800001
23	Ashok Kumar Singh	8166859804	Mining Engineer	Rs. 6,000/-	C/o Shri Ram Prasad Singh, Mohalla - Mogal Kuan, P.O. - Sohsarai, P.S. - Sohsarai, Dist- Nalanda, Bihar- 803118
24	Sandeep Kumar	8126253120	M.Sc. (Applied Geology)	Rs. 10,000/-	Anupama Bhawan, C/O Ravi Kishan, Sunder Nagar, Lohia Path, Jagdeo Path, Patna-800014 (Bihar)
25	United Exploration India Pvt. Ltd.	9431208782 9934304369	Required Qualification of the employees attached	Rs. 5,200/- (inclusive all Taxes)	301, 2nd Floor, Sahid Rajendra Singh Complex, Anandabad, Patna-800002
26	Rian Enviro Pvt. Ltd	9417289636	Required Qualification of the employees attached	Rs. 5,000/- (inclusive all Taxes)	202, 2nd Floor, Mangal Market, Raja Bazar, Sheikhpura Patna-800014
27	Ascenso Enviro Pvt. Ltd.	9104107920	Required Qualification of the employees attached	Rs. 4,750/- (inclusive all Taxes)	401, 9th Floor, Mangal Market, Raja Bazar, Sheikhpura, Patna-800014
28	M/s Baghel Environment & Waste Management Pvt. Ltd.	9431042532	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, Guru Sahay Lal Nagar, Road No. 3, Magistrate Colony, Ashiyana Nagar, Patna - 800025, Bihar
29	Gramin Lok Seva	9534452711	Qualifications of candidates are attached	Rs. 7,000/-	27, Guru Sahay Lal Nagar, Magistrate Colony, Ashiyana Nagar, Patna- 800025, Bihar
30	Praneja Envirocare & Management Pvt. Ltd.	9708251824	Qualifications of candidates are attached	Rs. 10,000/- (Excluding GST @18%)	103, Bhagwati Kunj apartment, Road No. - 30, Anand vihar Colony, Ruknपुर, Patna (Bihar)- 800014
31	Institute of Environment and Eco Development	7904620817	Details Of Qualification Attached	Rs. 10,000/- (Excluding GST)	Rate will be negotiable as per decision from Department of Mines & Geology, Govt. of Bihar
32	ENV Developmental Assistance Systems (India) Pvt. Ltd.	5224007470 9335913139	Details Of Qualification Attached	Rs. 2,750/- (inclusive all Taxes)	Prabha Niketan, road No.-13, Patel Nagar, Near Petrol Pump, Patna-800029



ESTIMATED RATE FOR YFC PROJECTS PRIVATE LIMITED

Director

Director

आपांक:- 3825 / एम०, दिनांक- 07/11/19

प्रतिलिपि:- माननीय मंत्री के आप्त सचिव/प्रधान सचिव के प्रधान आप्त सचिव/निदेशक
कोषांग/उप निदेशक (मु०)/सहायक निदेशक (मु०)/खनिज विकास
पदाधिकारी (मु०) को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

प्रमोद
7/11/19

प्रमोद
सरकार के अवर सचिव

For YFC PROJECTS PRIVATE LIMITED

Pradeep
Director



(Accreditation Certificate)

Director

For YFC PROJECTS PRIVATE LIMITED

For YFC PROJECTS PRIVATE LIMITED

Dy. Secy
Director



For YFC PROJECTS PRIVATE LIMITED

Director

1.	1	Mining of minerals including opencast / underground mining	A	1 (a) (i)
2.	3	River Valley projects	B	1 (c)
3.	8	Metallurgical industries (ferrous & non-ferrous)	B	3 (a)
4.	34	Highways.	A	7 (f)
5.	38	Building and construction projects	B	8 (a)
6.	39	Townships and Area development projects	B	8 (b)

1.1.3 EIA Coordinators (ECs)

Sl. No	Name	Sectors			Cat.	Remarks
		Applied	Recommended	Approved		
In-house						
1	Jatin Kumar Srivastava	1	Yes	Yes	B	Opencast only.
2	Pravin Kumar Sinha	1	Yes	Yes	B	None
Empanelled						
3	Tapan Majumdar	1	Yes	Yes	A	With an observation.
4	Mayank Kumar	3	Yes	Yes	B	None
		34	Yes	Yes	A	
		38	Yes	Yes	B	
		39	Yes	Yes	B	
5	Vikas Chand Tripathi	8	Yes	Yes	B	None
		38	Yes	Yes	B	With an observation.

1.1.4 Functional Area Experts (FAEs)

Sl. No	Name	Functional Areas (FA)			Cat.	Remarks
		Applied	Recommended	Approved		
In-house						
1	Jatin Kumar Srivastava	SC	Yes	Yes	B	None
		NV	Yes	Yes	B	
		WP	Yes	Yes	B	
		ER	Yes	Yes	B	
2	Pravin Kumar Sinha	SEO	Yes	Yes	B	None
3	Amit Kumar	SHW	Yes	Yes	B	SW only
		AP	Yes	Yes	B	With an observation.
		WP	Yes	Yes	B	
4	Manoj Kumar Pandey	EB	Yes	Yes	B	None
5	Hussain Ziauddin	SHW	Yes	Yes	B	HW only
		WP	Yes	Yes	B	None
6	Abhay Nath Mishra	SE	Yes	Yes	B	With an observation
Empanelled						
7	Tapan Majumdar	GEO	Yes	Yes	A	None
		HG	Yes	Yes	A	
8	Mayank Kumar	EB	Yes	Yes	B	None
9		SHW	Yes	Yes	B	SW only

जिला खनन कार्यालय, गया।

पत्रांक 124 / खनन, गया, दिनांक 13/01/23

प्रगत:

अमरेश कुमार (अ.स.स.)
उपरीय उप समाहर्ता-सह-
प्रभारी खनिज विकास प्रदाधिकारी, गया।

सेवा में:

M/s YFC PROJECTS PRIVATE LIMITED

Director-Davinder Kumar Yadav

S/o-Jag ram yadav

45, Sector 15, Part 1, Gaddagade, 112001 (Maharaja)

Email: mahishyadav@yfcprojects.com

Mobile: 9871903517

विषय :- गया जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) की आगामी पंच वर्षों के लिए बन्दोबस्ती हेतु दिनांक-16.12.2022 को सम्पन्न ई-नीलामी में उच्चतम आकवृत्ता घोषित होने की कालस्वरूप सैद्धांतिक स्वीकृत्यादेश के संबंध में।

संदर्भ:-

उपरोक्त विषय में गया जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) रकबा-25 हेक्टेयर की आगामी पंच वर्षों के लिए बन्दोबस्ती हेतु दिनांक-16.12.2022 को सम्पन्न ई-नीलामी में आपके द्वारा निर्धारित सुरक्षित जमा राशि मो०-6,75,00,000/- (छ करोड़ पचहत्तर लाख) रु० में विरुद्ध मो०- 16,87,50,000/- (गोलू करोड़ सत्तर सौ लाख पचास हजार) रु० की उच्चतम आक घोषित गई, कम्प्लेक्स एवं इन्फ्रा-संरचना आकवृत्ता घोषित हुए हैं; निर्धारित रकबा के अंतर्गत 20 (20) की आकवृत्ता में आपका द्वारा नीलामी अर्ज की 25 एकड़का आक (एक एकड़ आक, 50000-50000) प्रतिमूति राशि मो०-2,53,12,500/- (दो करोड़ तीरपहर लाख बारह हजार पाँच सौ) रु० का अनुमान का पत्र दिनांक-22.12.2022 को कार्यालय में प्रस्तुत किया गया है।

निम्नलिखित दस्तावेज की कंडिका 20(i)(ii)(iii)(iv)(v) के आलेख में जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) के सैद्धांतिक स्वीकृति की शर्त एवं बंधों निम्नवत् हैं :-

1. बालूखण्ड संख्या-32 (गया मोरहर-19) से संबंधित विवरणी निम्नवत् है :-

क्र.	नदी का नाम	रकबा (हेक्टेयर में)	Geo Coordinates	
			Latitude	Longitude
1	मोरहर (Non-Perennial)	25	A	24°31'40.00"N 84°44'33.33"E
			B	24°31'35.14"N 84°44'52.11"E
			C	24°31'18.23"N 84°43'30.81"E
			D	24°31'21.94"N 84°43'20.41"E
2	नि क्षेत्र से दूरी		1.58 किमी	
3	सुरक्षित क्षेत्र/वन अभयारण्य क्षेत्र/पक्षी अभयारण्य/एन्ड जीव अभयारण्य क्षेत्र से दूरी		24.05 किमी	
4	बालूघाट/बालूखण्ड से 500 मीटर के अन्दर खनन पट्टा क्षेत्र की स्थिति		लागू नहीं	
5	प्रातात्विक स्थल से दूरी		लागू नहीं	
6	खनन योग्य मात्रा		150000 घनमीटर	

2. भुगतान की शर्त :-

(i) नीलामी-राशि केवल प्रथम वर्ष के लिए बन्दोबस्ती की राशि भानी जाएगी; दूसरे वर्ष और उसके अनुक्रमी वर्षों में बन्दोबस्ती की राशि गत वर्ष की बन्दोबस्ती राशि के 120 प्रतिशत अथवा समय-समय पर सरकार द्वारा निर्धारित निर्देशों के अनुरूप होगा।

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Director

- (ii) प्रतिभूति जमा के अतिरिक्त आपको निम्नलिखित समय सारणी/भुगतान अनुसूची के अनुसार बंदोबस्ती की राशि का भुगतान करना होगा :-

किस्त	भुगतान की नियत तारीख
प्रथम किस्त (50%)	(क) पट्टा सविदा निष्पादन से पहले (पहले वर्ष के लिए) (ख) प्रथम वर्ष में पट्टा सविदा निष्पादन की तिथि से एक वर्ष पूरा होने के 60 दिन पूर्व और अनुक्रमिक वर्षों में इसी प्रक्रिया का पालन करते हुए जमा किया जायेगा।
द्वितीय किस्त (25%)	पट्टा सविदा निष्पादन की तिथि से 03 महीना पूरा होने से पहले।
तृतीय किस्त (25%)	पट्टा सविदा निष्पादन की तिथि से 06 महीना पूरा होने से पहले।

- GST का भुगतान :-** जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वसुलीय वन विभाग को भुगतान करना होगा। जिला खनन कार्यालय, गया में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।
- आयकर/अन्य करों का भुगतान :-** आयकर अधिनियम के तहत आयकर एवं उस पर नियमानुसार देय अधिभार का भुगतान आयकर विभाग के प्रचलित दर के अनुसार एक मुसत करना होगा। यह राशि बंदोबस्ती राशि के प्रत्येक किस्त के साथ देय होगी। जिला खनन कार्यालय, गया द्वारा यह राशि आयकर मद में जमा करा दी जायेगी।
- जिला खनिज फाउण्डेशन :-** Bihar District Mineral Foundation Rules, 2018 के अनुसार बंदोबस्ती राशि की 2 प्रतिशत राशि जिला खनिज फाउण्डेशन, गया के नाम भुगतान बैंक ड्राफ्ट के माध्यम से करना होगा।
- वैधानिक अनापत्ति :-** बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति यथा- खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि आपके द्वारा सैद्धांतिक स्वीकृति/अनुमति (LOI) निर्गत तिथि से तीन माह की अवधि के अन्दर प्राप्त करना सुनिश्चित करेंगे। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात् ही बालू खनन प्रारंभ किये जाने हेतु कार्यदेश निर्गत किया जा सकेगा। वैधानिक अनापत्ति/अनुमति निम्नानुसार है:-

- खनन योजना:-** खनन योजना प्रभावी नियमों में उल्लिखित प्रावधानों के अनुसार सफल डाकवक्ता/बंदोबस्तधारी द्वारा QCI/NABET से मान्यता प्राप्त Professional RQP से तैयार कर निर्देशक, खान या विभाग द्वारा प्राधिकृत पदाधिकारी के समक्ष लेटर ऑफ इंटेंट निर्गत होने से 30 दिनों के अन्दर अनुमोदन के लिए प्रस्तुत करेगा। खनन योजना बनाने पर होने वाले व्यय का वहन संबंधित खनिज डाकवक्ता/बंदोबस्तधारी द्वारा किया जायेगा। साथ ही खनन योजना की जाँच हेतु समग्रता/विभाग अन्य ऐजेंसी व्ययित कर सकेगा, जिसका निर्धारित फीस/खर्च भी बंदोबस्तधारी को ही वहन करना होगा। सफल डाकवक्ता/बंदोबस्तधारी खनन योजना के अनुसार खनन करना सुनिश्चित करेंगे।
- पर्यावरणीय स्वीकृति:-** सफल डाकवक्ता/बंदोबस्तधारी खनन योजना अनुमोदन के 15 दिनों के अन्दर पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के सक्षम प्राधिकार के समक्ष पर्यावरणीय स्वीकृति (EC) के लिए प्रस्ताव समर्पित करेगा। समयबद्ध सीमा से पर्यावरणीय एवं अन्य वैधानिक स्वीकृति प्राप्त करना सफल डाकवक्ता की जिम्मेवारी होगी। अपेक्षित पर्यावरणीय स्वीकृति एवं अन्य आवश्यक स्वीकृति प्राप्त करने में किसी भी प्रकार की देरी के लिए सफल डाकवक्ता स्वयं जिम्मेवार होंगे एवं इस संबंध में किसी भी प्रकार की क्षतिपूर्ति के लिए कोई भी दावा मान्य नहीं होगा।
- जल एवं वायु सहमति:-** पर्यावरणीय स्वीकृति प्राप्त करने के पश्चात् सफल डाकवक्ता अधिकतम 07 (सात) दिवस के अंदर जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1974 तथा वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के अधीन सक्षम पदाधिकारी के समक्ष सहमति/ Consent to Establish/ Consent to Operate प्राप्त करने हेतु आवेदन प्रस्तुत करेगा।

For YFC PROJECTS PRIVATE LIMITED

Director

iv. खनन के लिए अनुमत मात्रा:- खनन क्षेत्र का वार्षिक खनन मात्रा (खनन नियंत्रण एवं नियंत्रण) अधिनियम, 1974 तथा बालू निष्पन्न विधायक का नियंत्रण अधिनियम, 1974 के तहत प्राप्त सहमति में वर्णित बालू की मात्रा द्वारा से की जायेगी; तथा इस खनन अनुमति होगी। यदि अनुमोदित खनन योजना पर्याप्तता: जोड़ने तथा खनन एवं खनन सहायक में खनन योग्य मात्रा कम किये जाने पर भी वार्षिक दस दशकली प्रति मिली लिटरी में कम नहीं की जाएगी।

v. जिला जिला दस खनन के पर्याप्तता: नदी/नदी, Co-ordinate के निर्धारण/ Co-ordinate के निर्धारण/ Co-ordinate के निर्धारण एवं बालू खनन के प्रारंभ नहीं कर लेते हैं या खनन करने में प्रति नहीं लेते हैं तो, सफलता: द्वारा खनन प्रति खनन करने की कार्यवाई की जायेगी।

7. बंदोबस्ती विवेक/परदा सविदा (सीई) निष्पादन करना :-

- सफल डाकवक्ता द्वारा सभी वैधानिक अनापति प्राप्त करने की उपरान्त 5 वर्षों की अवधि के लिए बालू खनन करने हेतु समानुदान/बंदोबस्ती स्वीकृत किया जाएगा। सफल डाकवक्ता विहित प्रपत्र में संबंधित नियमानुसार बंदोबस्ती विवेक अथवा उसके समरूप एक प्रपत्र, कार्य आरंभ करने के पहले, निष्पादित करेगा तथा यथा विहित अपेक्षित प्रतिभूति सविदा जमा देगा। बंदोबस्तधारी के पट्टे की अवधि विवेक/सविदा निष्पादन की तिथि से पाँच वर्षों के लिए विधिमान्य होगा।
- बंदोबस्तधारी को निष्पादित सविदा का निबंधन संबंधित विभाग के प्रचलित नियमों के अधीन 01 माह के अन्दर कराना अनिवार्य होगा।

8. शर्तें :-

- बंदोबस्तधारी नदी तट से बालू प्रेषण के बिन्दु पर एक साईनबोर्ड एवं सीमा स्तंभ का अधिष्ठापन करायेगा जिसपर बंदोबस्तधारी का नाम एवं पता, बंदोबस्ती की अवधि, स्थानीय मैनेजर का नाम एवं पता तथा बालू का विक्रय मूल्य प्रदर्शित किया जाएगा। यदि साईन बोर्ड निरीक्षण में नहीं पाया गया तो शास्ति अधिरोपित की जाएगी।
- बंदोबस्तधारी श्रम विधियों के प्रावधानों के अनुसार आश्रय गृह, पीने का पानी, शिशु गृह (क्रेचेज) तथा फर्स्ट एड किट की व्यवस्था संबंधित बालूघाटों में लगे श्रमिकों के लिए करेगा।
- बंदोबस्तधारी संबंधित क्षेत्रों का निरीक्षण करेगा तथा स्वयं/ अथवा अपने द्वारा अधिकृत प्रतिनिधियों के माध्यम से बालूघाटों का प्रचालन करेगा। किसी रूप में किये गये उपपट्टा (सबलेटिंग) के लिए बंदोबस्ती रद्द कर दी जाएगी। बालूघाटों/नदी तल तक बालू के परिवहन के प्रयोजनार्थ पहुँच-पथ (अप्रोच रोड) का निर्माण सफल डाकवक्ता/बंदोबस्तधारी द्वारा स्वयं अपने खर्च से किया जाएगा।
- बालूघाट की सुरक्षा की जिम्मेदारी सफल डाकवक्ता/बंदोबस्तधारी की होगी।
- सफल डाकवक्ता/बंदोबस्तधारी बंदोबस्त क्षेत्र के भीतर किसी अवैध खनन के लिए जिम्मेदार होंगे और पाई गई किसी शिकायत पर गंभीरता से विचार किया जाएगा तथा बंदोबस्तधारी के विरुद्ध अपराधिक मामला दायर किया जाएगा।
- सफल डाकवक्ता/बंदोबस्तधारी समाहर्ता द्वारा बालूघाटों के संचालन के संबंध में लोकहित में जारी निबंधनों और शर्तों तथा निदेशों का पालन करेगा।
- योजना शर्तों, धर्तों एवं निबंधनों का पालन नहीं करने पर कारण पृच्छा निर्गत कर बंदोबस्ती रद्द करने की कार्यवाई की जा सकेगी।
- सफल डाकवक्ता/बंदोबस्तधारी को खनन राजस्व/लीज/एस्टीमेट/आयकर/स्टाम्प/मुल्क/रजिस्ट्रेशन फीस का भुगतान नहीं करने की दशा में 30 दिनों के अंदर कारण स्पष्ट करने हेतु नोटिस दी जायेगी। निर्धारित अवधि के अंदर सफल डाकवक्ता/बंदोबस्तधारी द्वारा बालू का भुगतान करने में असफल रहने की दशा में शर्तें/जसूती की कार्यवाई के साथ-साथ बंदोबस्ती रद्द करने की भी कार्यवाई की जाएगी।
- नोलासी हेतु प्रस्तावित बालूघाटों से संबंधित तकनीकी तथा अन्य बिन्दुओं यथा भूमि के अधिलेखना, मौजा, खाता, खसरा रकबा तथा GPS Co-ordinate के संबंध में विवाद/दुर्घटनाएँ जाने पर संशोधन का अधिकार संबंधित जिला खनन कार्यालय का होगा। बालूघाटों का सीमांकन एवं नियमानुसार निर्धारित आयाम/जिरेस्टियो का सीमा स्तंभ का अधिष्ठापन GPS Co-ordinate के अनुसार बालू बंदोबस्तधारी को कराना होगा तथा खनन के क्रम में सकारित कराना सफल

For YFC PROJECTS PRIVATE LIMITED

Director

- डाकवक्ता/बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/अधिकाधिकारी की उपस्थिति में प्रमाणित कराकर खनन कार्य करना होगा। बालूघाटों के निर्धारित क्षेत्र का Reduced Level (RL)/Pre-Level (PL) एवं Satellite images मानचुन के पूर्व एवं बाद का समर्पित करना होगा।
- (x) बालूघाट से लिंक रोड और बालूघाट के बीच कोई प्राकृतिक जल मार्ग सिधौई नहर पड़ती हो सफल डाकवक्ता/बंदोबस्तधारी जल ससाधन विभाग की पूर्व अनुमति से अस्थायी संरचनाएँ खड़ा कर सकेगा। पूर्व अनुमति के लिए ऐसे आवेदन जल ससाधन विभाग के संबंधित मुख्य अभियंता को समझ दिए जाएंगे।
- (xi) बालूघाट में रैपती/बंदोबस्त जमीन होने पर संबंधित रैपत से सहमति प्राप्त कर बालू का खनन करना होगा। यह जिम्मेदारी पूर्णतः बंदोबस्तधारी की होगी एवं विभाग से कोई क्षतिपूर्ति का दावा मान्य नहीं होगा।
- (xii) बंदोबस्तधारी द्वारा बंदोबस्ती अवधि के दौरान किसी भी कारण से खनन कार्य नहीं करने की स्थिति में किसी भी प्रकार का मुआवजा/नुकसान एवं क्षतिपूर्ति का दावा मान्य नहीं होगा।
- (xiii) ई-नीलामी एवं बालूघाट की बंदोबस्ती अवधि के दौरान उत्पन्न किसी भी प्रकार का विवाद बिहार खनिज (समानुदान, अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली 2019, (यथा संशोधित) के अधीन होगा।
- (xiv) सफल डाकवक्ता/बंदोबस्तधारी को इलेक्ट्रॉनिक माध्यम से भेजी गई कोई भी सूचना/निर्देश /आदेश इत्यादि IT Act के तहत स्वीकार्य साक्ष्य के रूप में माना जायेगा।

विश्वासमाजन

वरीय उप समाहती-सह-
प्रभारी खनिज विकास पदाधिकारी गया।

For YFC PROJECTS PRIVATE LIMITED



जिला खनन कार्यालय, गया।

पत्रांक 122 / खनन, गया, दिनांक 15/01/22

प्रेषक,

अमरेश कुमार (अ.ख.)
वरीय उप समाहर्ता-सह-
ग्रामी खनिज विकास प्रदाधिकारी, गया।

सेवा में,

M/s YFC PROJECTS PRIVATE LIMITED

Director-Davindar kumar Yadav

S/o-Jag ram yadav

45, Sector-15, Part-1, Gudgawan, 122001 (Haryana)

Email- manish.yadav@yfcprojects.com

Mobile- 9871903517

विषय :-

गया जिलान्तर्गत बालूखण्ड संख्या-32 (गया मोरहर-19) के भूमि की विवरणी उपलब्ध कराने के संबंध में।

महोदय,

उपर्युक्त विषय के संबंध में सूचित करना है कि गया बालूखण्ड संख्या-32 (गया मोरहर-19) के भूमि की विवरणी निम्नवत है :-

SR NO	Sand Block No.	BLOCK/UNIT NAME	AREA (HA.)	Distance from ARCHEOLOGICAL MONUMENTS OF GAYA DISTRICT (KM)	MAUZA Village/ Thana No.	ANCHAL	KHATA NO.	KHESAMBA NO.
1	Block-32	GAYA MORHAR-19	25	10	Itwan/ 395	Bankey Bazar	146	515, 420, 617
					Baital/ 411	Bankey Bazar	232	1, 2, 3
					Uchla/ 403	Bankey Bazar	171	689
					Manjholiya/ 410	Bankey Bazar	77	249, 269
					Shri Rampur/ 413	Sherghati	203	1, 1857, 1858

विवरणात्मक

वरीय उप समाहर्ता-सह-
ग्रामी खनिज विकास प्रदाधिकारी, गया।

For YFC PROJECTS PRIVATE LIMITED

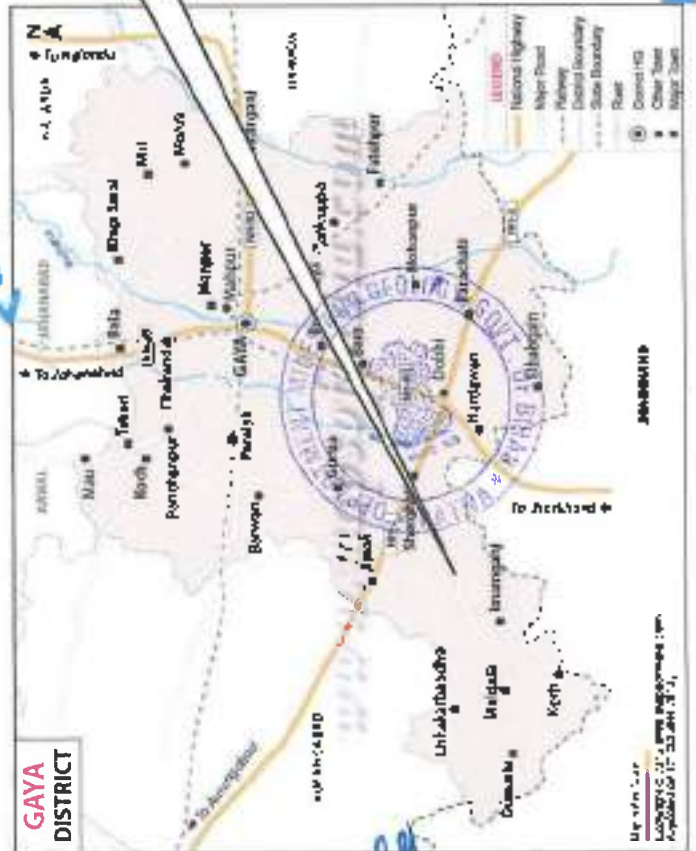
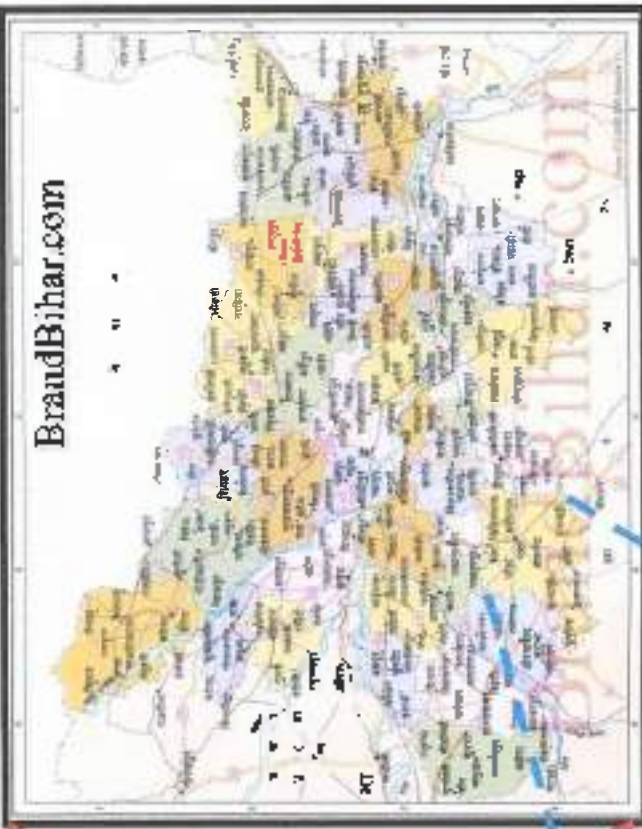
Director

PLATES

For YFC PROJECTS PRIVATE LIMITED


Director

LOCATION MAP



ITWAN, BAITAL,
UCHLA, MANJHOLIYA,
SHRI RAMPUR.

Plate No.1

LOCATION MAP

BLOCK-32 IGAYA MORHAR - 19) SAND GHAT
MORHAR RIVER (AREA- 25.0 HA.)
MAUJA- ITWAN, BAITAL, UCHLA, MANJHOLIYA, SHRI RAMPUR,
ANCHAL- BANKEY BAZAR, DIST-GAYA, (BIHAR).

SETTLEE :- M/S YFC PROJECTS PRIVATE LIMITED
PROP.- DAVINDAR KUMAR YADAV

PREPARED BY :- REG. NO. - RQP/BIN/SR.NO.20 LETTER NO. 3825
DATED 07/11/2019

SIGNATURE

[Signature]

For YFC PROJECTS PRIVATE LIMITED

Director

ROUTE MAP

LEGENDS

1		LEASE BOUNDARY
2		ROAD



Majhauria मजहौरिया

Rausangunj रासगंज

Matia Gaya

 **GAYA MORHAR 19**

Baital बैताल

PLATE NO.-2

ROUTE MAP

SAND MINING PROJECT
BLOCK 32 (GAYA MORHAR 19) SAND GHAT
MORHAR RIVER (AREA: 25.0 HA.)
MALLA- ITWAN, BAITAL, UCHALA, MAJHAULIYA, SANTI
RAMPUR, ANCHAL- BANKEY BAZAR, D'ST. GAYA, (BIHAR).
SETTLEE :- M/S YFC PROJECTS PRIVATE LIMITED
PROP. :- DAVINDRA KUMAR YADAV
PREPARED BY:- PRAVIN KUMAR SINHA
REGD. NO. :- KOP/BIH/SR.NO.20
LETTER NO. 3825 DATED 07/11/2019
SIGNATURE : 

Google Earth

Image © 2022 Maxar Technologies

M/S YFC PROJECTS PRIVATE LIMITED

900 m

CO-ORDINATE	
A	24°31'40.03"N 84°44'3.33"E
B	24°31'35.14"N 84°44'5.71"E
C	24°31'18.33"N 84°43'30.81"E
D	24°31'21.94"N 84°43'29.41"E

GOOGLE MAP

LEGENDS

1		LEASE BOUNDARY
2		1 KM BOUNDARY



PLATE NO.-2

GOOGLE MAP

SAND MINING PROJECT

BLOCK-32 (GAYA MORHAR - 19) SAND GHAT

MORHAR RIVER (AREA- 25.0 HA.)

MALJA- ITWANI, BAITAL, UCHALA, MAJHAULI YA, SHRI
RAMPUR, ANCHAL - BANKEY BAZAR, DIST- GAYA, (B'HAR).

SETTLED :- M/S YFC PROJECTS PRIVATE LIMITED

PROP. DAVINDAR KUMAR YADAV

PREPARED BY:- PRAVIN KUMAR SINHA

REGD. NO.- RQP/BAH/SR.NO.20

LETTER NO. 3825 DATED 07/11/2013

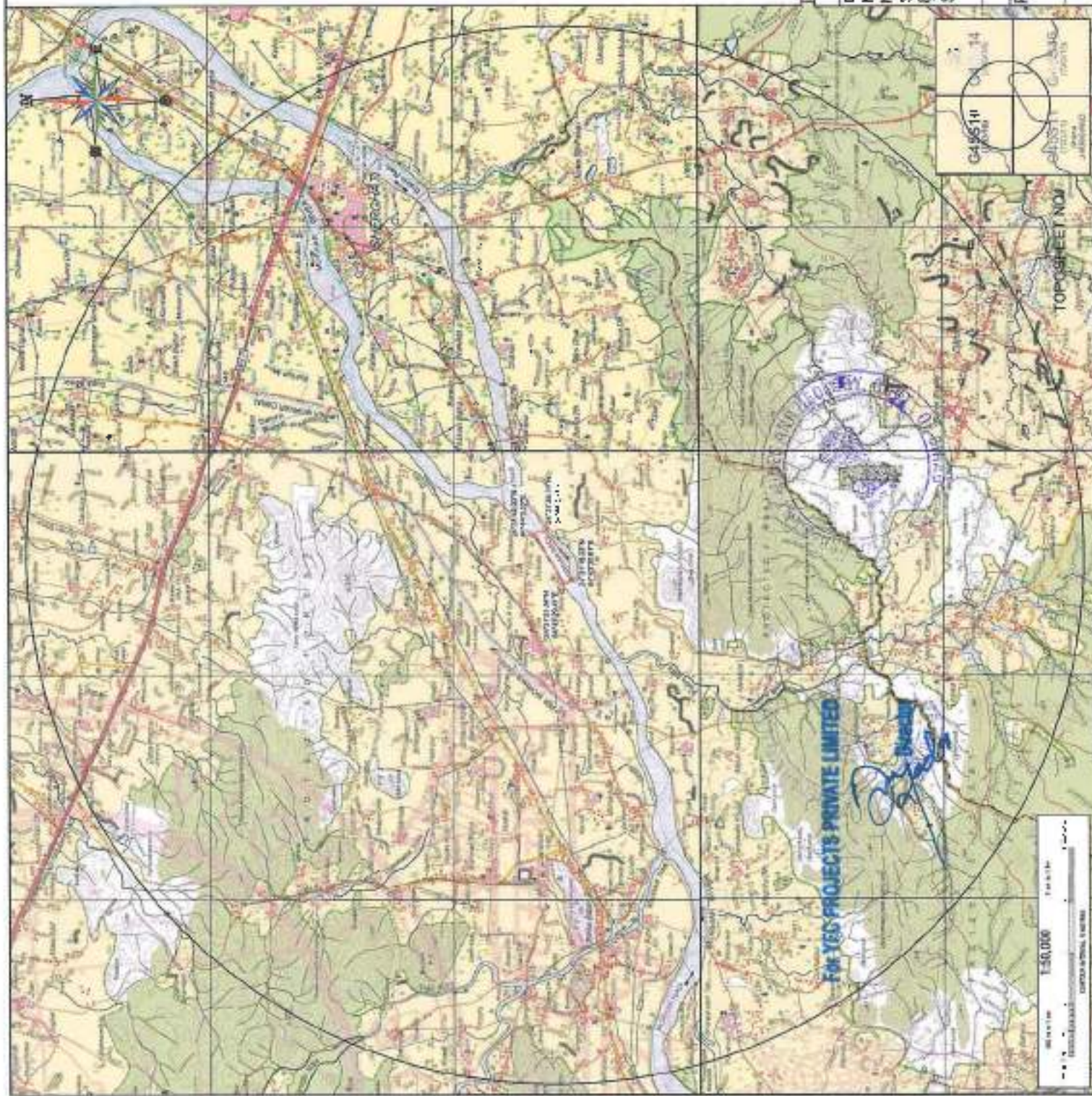
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Google Earth

Image © 2022 Maxar Technologies

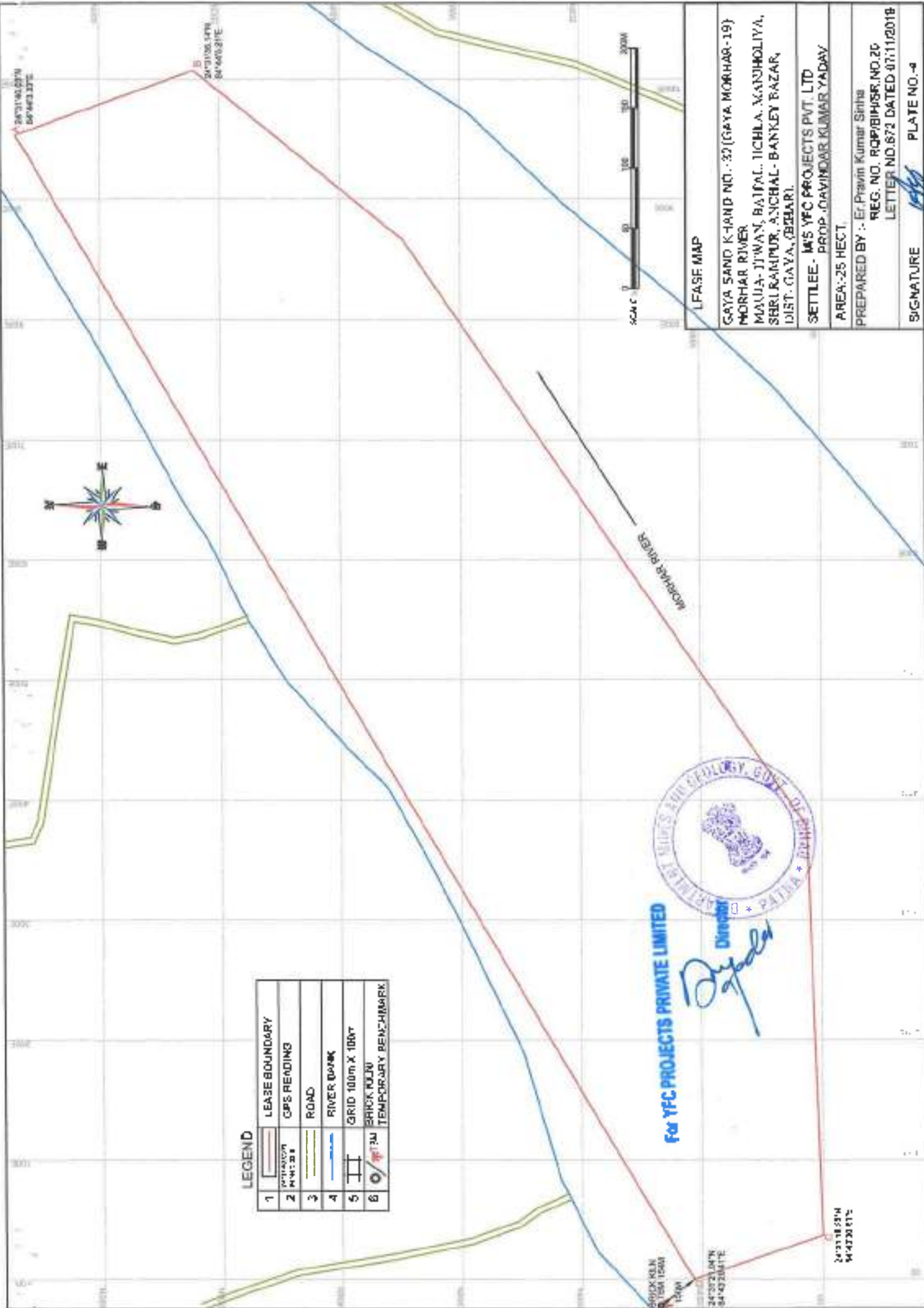

Director



FOR YES PROJECTS PRIVATE LIMITED

GAYA SAND KHAND NO.-32(GAYA MORHAR-19): MORHAR P:ER MAUZA-BAITAL, JTWAN, MANJHI 12, UCHHAL & BIRAMPUR, G.P ANCI AL.-DANKE BAZAR & SHERGHATI, DIST- GAYA (BIHAR)	SETTLEE-M/S. YFC PROJECTS PVT. LTD. P-POP-DAVINCAR KUMAR *ADAY AREA-25 HFCT.	PREPARED BY - Er.Pravin Kumar Sinha REG. NO RGP/BIH-SR.NO.20 LETTER NO.3825 DATED 07/11/2019	PLATE NO.-2
SIGNATURE			140

150,000



LEGEND	
1	LEASE BOUNDARY
2	GPS BOUNDING POINT 20 B
3	ROAD
4	RIVER BANK
5	GRID 100m X 100m
6	BRICK KILN TEMPORARY BENCHMARK



For YFC PROJECTS PRIVATE LIMITED
Director
[Signature]

LEASE MAP	
GAYA SAND K-AND NO. 32 (GAYA MORHAR-19)	
MORHAR RIVER	
MAJUA-JIWAN, BAIFAL, ICHLA, KANHOLIYA, SHERLAMPUR, ANCHAL - BANKEY BAZAR, DIST. GAYA, (BIHAR).	
SETTLEE - M'S YFC PROJECTS PVT. LTD	
AREA:- 25 HECT.	
PREPARED BY :- Er. Pravin Kumar Sinha	
REG. NO. RQP/BIHAR/NO.20	
LETTER NO.672 DATED 07/11/2018	
SIGNATURE	PLATE NO. - 4

LEGEND

1	LEASE BOUNDARY
2	7.6 M BARRER UPL
3	CONTOUR (1M INTERVAL)
4	GPS READING
5	ROAD
6	RIVER BANK
7	GRID 25X25
8	HIGHEST MSL-151.0M
9	LOWEST MSL-48.7M
10	



For YFC PROJECTS PRIVATE LIMITED

Director

SURFACE / GEOLOGICAL PLAN

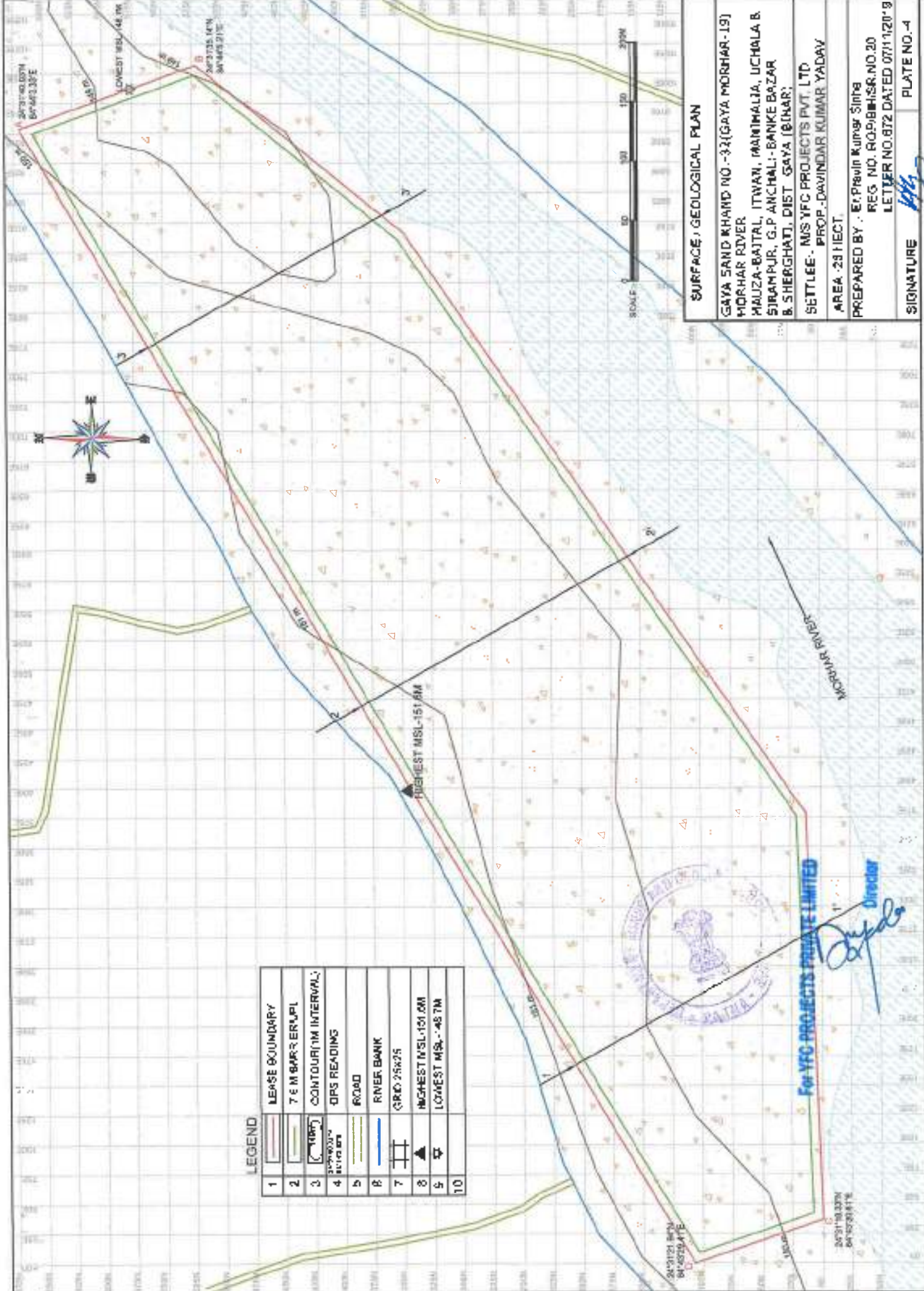
GAYA SAND KHAND NO.-32(GAYA MORHAR-19)
 MORHAR RIVER
 MALUZA-BAITAL, ITWANI, MAINMALIJA, UCHALA B.
 SIRAMPUR, G.P ANCHALI-BANKE BAZAR
 B. SHERGHATI, DIST. GAYA (Bihar),

SETTLEE- MIS YFC PROJECTS PVT. LTD
 PROP.-DAVINDAR KUMAR YADAV
 AREA -28 HECT.

PREPARED BY : E:Pravin Kumar Sinha
 REG. NO. RQP/BH/SR.NO.20
 LETTER NO.872 DATED 07/11/2019

SIGNATURE

PLATE NO.-4





SECTION ALONG 1-1'



SECTION ALONG 2-2'



SECTION ALONG 3-3'

LEGEND

1	LEASE BOUNDARY(LB)
2	7.5 M BARRIER/UPL
3	ROAD
4	PROVED RESERVE(111)
5	PROBABLE RESERVE(122)
6	FEASIBILITY RESOURCE(211)
7	PRE FEASIBILITY RESOURCE (222)

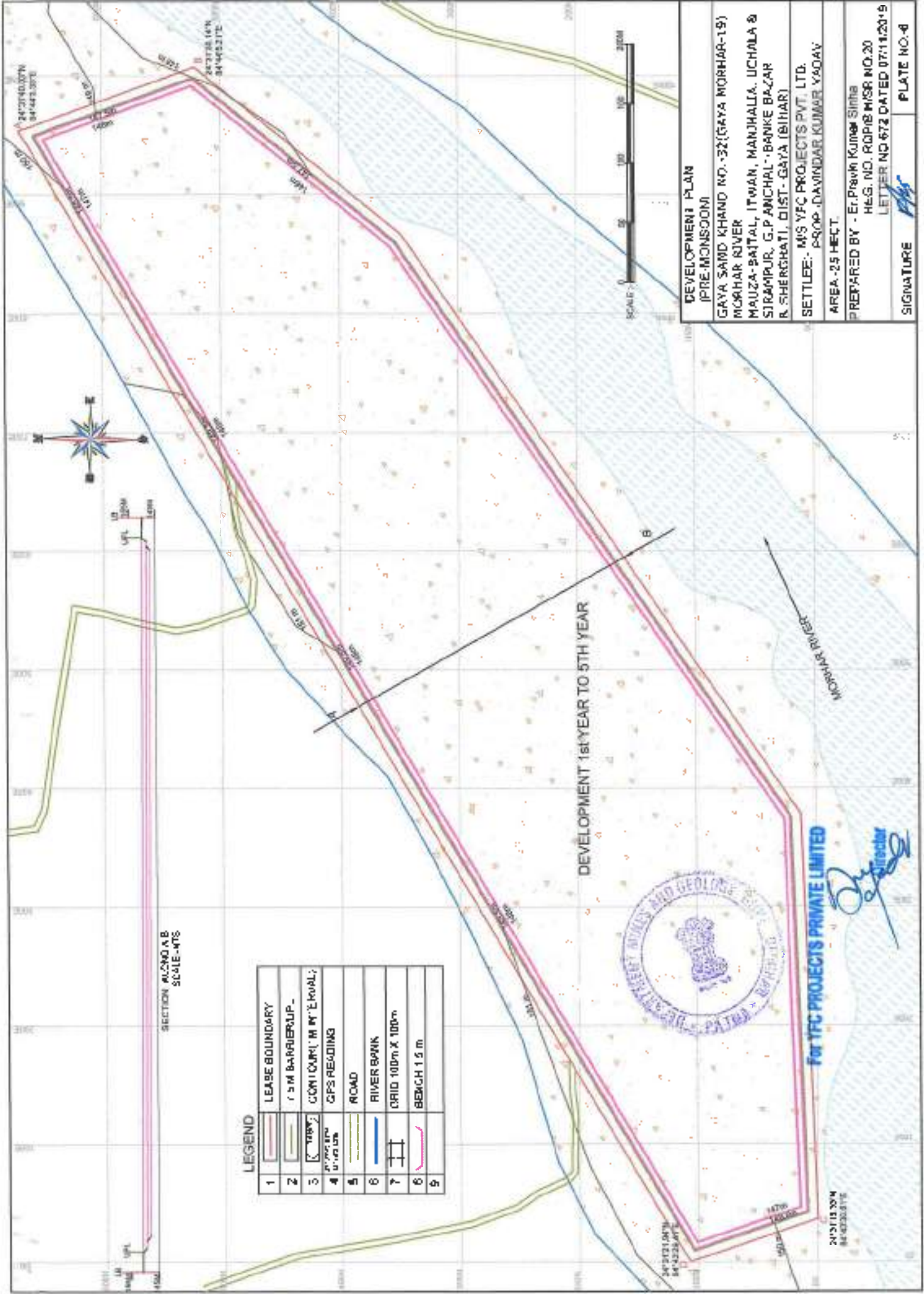


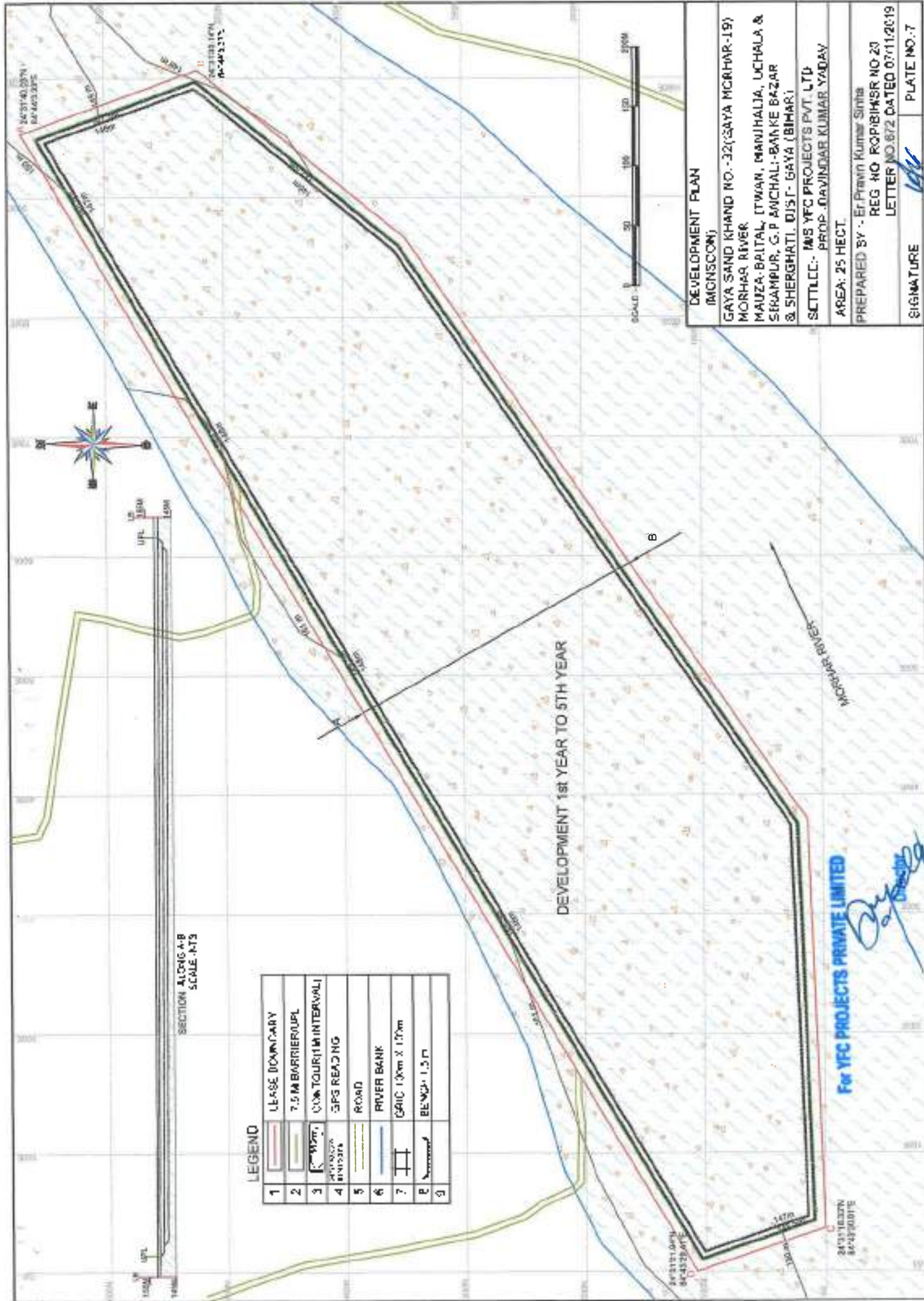
For YFC PROJECTS PRIVATE LIMITED

[Signature]
Director

GEOLOGICAL SECTIONS

GAYA SAND KHAND NO. -32(GAYA MORHAR-19) MORHAR RIVER MAUZA-BAITAL, ITWAN, MANJHALA, UCHALA & SIRAMPUR, G.P ANCHAL:-BANKA BAZAR & SHERGHATI, DIST- GAYA (BIHAR)	
SETTLEE:- M/S YFC PROJECTS PVT. LTD. PROP.-DAVINDAR KUMAR YADAV	
AREA -25 HECT.	SCALE:- 1:1000
PREPARED BY :- Er Pravin Kumar Sinha REG NO RQP/BIH/SR NO 20 LETTER NO.672 DATED 07/11/2019	
SIGNATURE <i>[Signature]</i>	PLATE NO.-5





LEGEND

1	LEASE BOUNDARY
2	7.5 M BARRIER
3	CONTOUR (1M INTERVAL)
4	GPS READING
5	ROAD
6	RIVER BANK
7	GRID 100m x 100m
8	BENCH 1.5 m

SECTION ALONG AA
SCALE 1:100

DEVELOPMENT 1st YEAR TO 5TH YEAR



For YFC PROJECTS PRIVATE LIMITED

Director

DEVELOPMENT PLAN (POST-MONSOON)

GAYA SAND KHAND NO.-32 (GAYA MORHAR-19)
MORHAR RIVER
MALUA-BATTAL, JYWAN, MANIHATIA, UCHALA &
SIRAMPUR, G.P ANCHAL:-SANKU BAZAR
& SHERGHATI, DIST:- GAYA, BIHAR

SETTLEE - M/S YFC PROJECTS PVT. LTD
AREA - 25 HECT

PREPARED BY - Er. Pravin Kumar Sinha

REG. NO. RQP/8/MSR NO. 20

LETTER NO. 672 DATED 07/11/2019

SIGNATURE

PLATE NO.-8

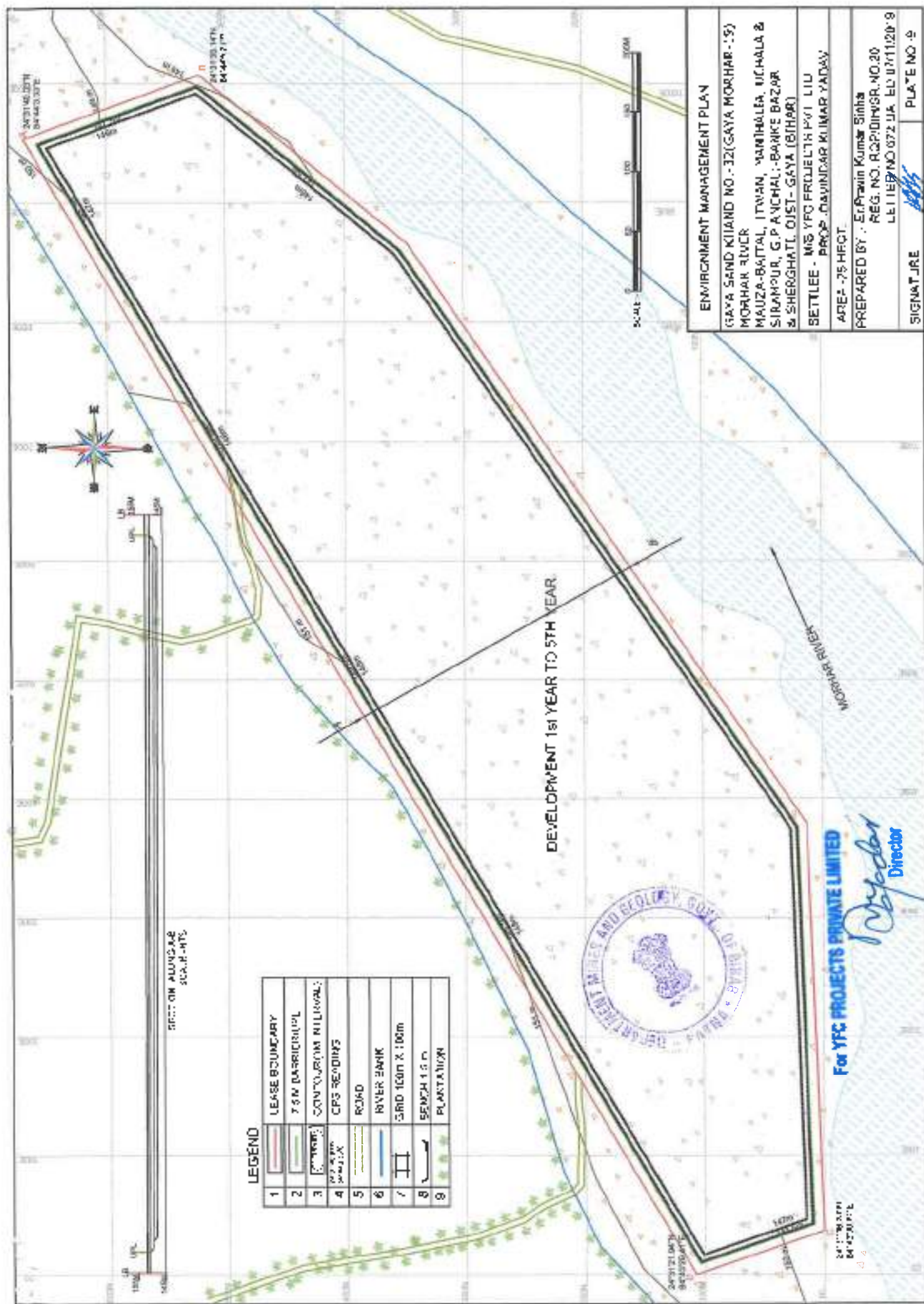


UP
DOWN

24°31'18.33"N
84°45'30.81"E

24°31'15.18"N
84°44'55.27"E

24°31'18.33"N
84°44'33.33"E

4:00 P.M. - 5:00 P.M.
1430 P.M. - 1500 P.M.

