

बिहार सरकार,
खान एवं भूतत्व विभाग।

पत्रांक- 6103 - /एम0, पटना, दिनांक- 13/12/2022
प्रेषक,

कमलेश कुमार सिंह,
संयुक्त सचिव

सेवा में,

Email

एकलव्य स्टोन एण्ड माईन्स प्रा0 लि0
निदेशक-निधि कुमारी पति- एकलव्य कुमार
एवं कुमारी प्रीति पति- श्री अखिलेश कुमार,
पता- ग्रा0- पथरा इंगलिश, पो0- ओढ़नपुर,
थाना- मुफसिल, जिला-नवादा, मो0 नं0-8651848126
Email- esmines@rediffmail.com

विषय- **लखीसराय जिला के किउल नदी ब्लॉक- 07 के खनन योजना के अनुमोदन के संबंध में।**

महाशय,

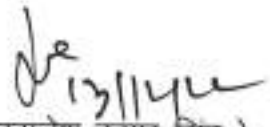
उपर्युक्त विषय के संबंध में कहना है कि बिहार बालू खनन नीति-2019 यथा संशोधित एवं बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) के नियम-17 में वर्णित प्रावधानों के तहत लखीसराय जिला के किउल नदी ब्लॉक- 07 से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत समिति द्वारा समीक्षा की गई। समीक्षापरांत 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 रकबा 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 आँकड़ों 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. खनन कार्य के दौरान घाट संचालनकर्ता द्वारा पर्यावरण संबंधी मानकों का नियमित रूप से अनुश्रवण करने की व्यवस्था करनी होगी। खनन 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 खनन 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, लखीसराय के गोपनीय कोषांग, उपनिदेशक, मुंगेर अंचल, मुंगेर 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 लखीसराय किउल नदी ब्लॉक- 07 से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन कार्य सुनिश्चित कराया जायेगा।

विश्वासभाजन


(कमलेश कुमार सिंह)
संयुक्त सचिव

MINING PLAN

WITH PROGRESSIVE MINE CLOSURE PLAN

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

OF

BLOCK NO.- 07 SAND GHAT RIVER - KIUL

in Mauza – Nagardar & Chanan, District-Lakhisarai (Bihar).

APPLIED AREA- 24.60 HECTARES

PLAN PERIOD: FOR FIVE YEARS



APPROVED

Vide Dept. of Mines & Geology

Govt. of Bihar, Patna

Letter No. 6103, Dt. 13.12.2022



SETTLEE

Eklavya Stone And Mines Pvt. Ltd.

Director – Nidhi Kumari

W/o – Eklavya Kumar or

Kumari Priti W/o – Shree Akhilesh Kumar,

Village – Pathra English, Post- Orhanpur,

P.S. Muffassil, District- Nawada (Bihar).

Prepared By:

Er. Pravin Kr Sinha (Regd. No.: RQP/BIH/SR.NO.20)

Consultant :

P&M Solution

C-88, SECTOR-65 NOIDA

(Accredited by QCI- NABET)

Regional Off :-

9889024004 & 7542949027, Mangal Market, Raja
Bazar, Patna (Bihar) Pin - 800014.

indusminingbihar@gmail.com

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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
4	LEASE MAP
5	SURFACE GEOLOGICAL PLAN
6	GEOLOGICAL SECTION
7A	DEVELOPMENT PLAN (PRE MONSOON)
7B	DEVELOPMENT PLAN (MONSOON)
7C	DEVELOPMENT PLAN (POST MONSOON)
8	CONCEPTUAL PLAN
9	PROGRESSIVE MINE CLOSURE PLAN



MINING PLAN



PART A

CHAPTER-1

1. INTRODUCTION

1.1	Settlee Name & Full address Phone. No. E-mail ID	Eklavaya Stone And Mines Pvt. Ltd. Director – Nidhi Kumari W/o – Eklavya Kumar or Kumari Priti W/o – Shree Akhilesh Kumar, Village – Pathra English, Post- Orhanpur, P.S. Muffassil, District- Nawada (Bihar). 99550 72509 vrclpl@rediffmail.com
1.2	Letter no. / date of lease execution & lease period	District Magistrate issue LOI on letter no. 1453 dated. 16.11.2022 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 No.- 07 Sand Ghat Lease has an applied area of 24.60 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 <u>Consultant</u> P&M Solution 201, Mangal Market Raja Bazar, Patna 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	17.11.2022

Eklavaya Stone & Mines Pvt. Ltd.
Nidhi Kumari Priti



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.

Shriyan Stone & Mines Pvt. Ltd.
Kumari Preethi

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- 2019, 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 / Settle 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.

Eklavya Stone & Mines Pvt. Ltd.
Kumari Pruthi

Anindita Kumari

- 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 of 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 $\frac{1}{4}$ th 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 the directed/prescribed by the regulatory authority shall be maintained.
- xii. River bed sand mining shall be restricted within the central $\frac{3}{4}$ th 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.

Kumari Pruthi 4

CHAPTER-3

3. LOCATION, GENERAL AND ACCESSIBILITY

3.1 LOCATION

(a) Details of the area

(i)	Lease-hold area	24.6 Hect.		
	Location	Block No.- 07 Sand Ghat fall in Mauza- Nagardar & Chanan Dist - Lakhisarai (Bihar). The location plan is enclosed (Plate No. 1)		
(ii)	Mining Lease Map	Khata no. - 89 Khasra No.- 01, 15, 366 Google Map of Block No.- 07 Sand Ghat is attached as Annexure no. 4.		
(iii)	District & State	Lakhisarai , Bihar		
(iv)	Mining Plot	Sand Ghat	River	Area (ha)
		Block No.- 07	Kiul	24.60
(v)	Name of Ghat	Block No.- 07 Sand Ghat of 24.60 hectares.		
(vi)	Ghat details	24.60 ha (Kiul River bed)		
(vii)	Coordinates	The area & geographical coordinates of Block No.- 07 Sand Ghat is given in Table No.1		
(viii)	Topo sheet No.	72 K/4		

BLOCK NO.- 07 SAND GHAT CO-ORDINATES

S. No	Sand Ghat	Area (in Ha)	Co-ordinates		Ghat/Village	River
1	BLOCK NO.- 07	24.60	A	25° 4'47.55"N 86° 8'34.87"E	Mauza- Nagardar & Chanan Dist - Lakhisarai (Bihar)	Kiul
			B	25° 4'33.31"N 86° 8'57.52"E		
			C	25° 4'23.09"N 86° 9'3.66"E		
			D	25° 4'19.38"N 86° 8'59.04"E		
			E	25° 4'31.54"N 86° 8'51.10"E		

Eklavya Stone & Mines Pvt. Ltd.

Kumar Pruthi

Director

Prepared by: Arvind Kr. Sinha Reg. No. - RQP/BIH/SR.NO.20
Letter No. 3625 Dated 07/11/2019

M. Nidhi Kumari

		F	25° 4'39.80"N 86° 8'29.76"E		
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(b) Key plan of area:-

Key plan of Sand Ghat (Kiul 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 No.- 07 Sand Ghat (53.5 ASML to 51.7 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	24.60	-	-	-
	Total	24.60	-	-	-

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Nidhi Kumari

3.2 ACCESSIBILITY

Lakhisarai is a beautiful and important place in the state of Bihar. This district was established on the 3rd of July 1994. Before coming into existence as a new district, Lakhisarai was a sub-division within Munger District. Historians established on the basis of analysis of evidences, that this place was a reputed religious center for the Hindus in the period of Pal. The ruler of that time was fond of making Temples and other religious spots. It is one of the reasons that there are so many temples and other religious places within this region. Some significant temples and religious spots within the district are Ashokdham, Bhagwati Mandir of Barahiya, Sringi Rishi, Jalappa Asthan, Abhainath Asthan on Abhaipur Mountains, Maharani Asthan of Abhaipur, Govindbaba Asthan (Mandap) Rampur and Durga Asthan Lakhisarai etc.

Project site is falls in Mauza- Rampur & Nagardar Site is well connected by SH-18 Rd which is at distance of approx. 2.5 Km in South-West direction. Nearest NH/SH is SH-18 at distance of 2.5 Km in South- West direction. Nearest railway station is Mananpur Railway Station at distance of approx. 2.15 km in NE. Nearest airport is JPN International Airport Patna at distance of approx. 121 km in NW.



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Kumari Pruthi

Director

Anjali Kumari

Prepared by: Ravin Kr. Sinha Reg. No. - RQ/BIH/SR.NO.20
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CHAPTER-4

4.1 GEOLOGY & EXPLORATION

4.1.1 TOPOGRAPHY

The area represents a rough and rugged topography. A detailed geological map on 1:1000 scales with contour interval. The area shows a general slope toward N-E while the highest RL of 53.5 m occurring on the South -East side of the area along boundary pillar, whereas the lowest RL of 51.7 m within the lease area is found along N-E slope near boundary line. The surface plan of the area is shown in Plate No-05.

Geomorphology

The district has a diverse landscape ranging from hills to flood plains. The major geomorphic units are rocky upland, pediplain, alluvial plain and flood plains.

The Rocky Upland area comprises series of Kachhua and Kajra hills. These hill tracts constitute elevated and rugged landmasses surrounded by alluvial plains. The altitude of hills varies from 250 to 500 m amsl. It comprises mainly quartzite, phyllite and schist of Kharagpur formation. The rocks of Kharagpur formation have undergone tectonic deformation giving rise to variety of deformational structures. The rocky uplands are limited mainly in Surajgarha block.

Pedi plain is represented by an area formed through coalescence of pediments and thus forms rolling topography and comprises residual soil overlain by mixture of sheet wash deposits. It extends all along the Kharagpur hills.

Older Alluvial Plain forms a major part of the district. It comprises sediments deposited by Ganga river and also the sediments derived from the denudation of Chota Nagpur plateau and Kharagpur hills. This is also known as marginal alluvial plain due to its limited thickness. Although the thickness of this alluvium at Ashok dham village is about 123m but reduces considerably in the southeastern parts ranging from 15 to 20m.

Younger Alluvial Plain forms the northern parts of the district and stretches few km to the south of Ganga river. Almost all of Pipariya and some part of Barahiya blocks are considered as flood prone area. These areas remain inundated in rainy season. Locally, this is called "Tal" area. Diara area is level to gently undulating ground. The mighty Ganga meanders in this parts and usually remains flooded from middle of July to the end of September. The relief of this plain varies on an average from 25 to 65m above mean sea level.

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Kumari Pruthi
Director

Anidha Kumari
Prepared by: Pravin Kr. Sinha Reg. No. - RQP/SH/DR/NO
Letter No. 3325 Dated 07/11/2019

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.

Table-4.1:- 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 Bahbhua and Rohtas dist
Satpura	Schist, Phyllite, Quartzite	Part of Aurangabad, Gaya, Nawada, Nalanda, Sheikhpura and Munger District
Proterozoic	MicaSchist, 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



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Kumari Prath

Director

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Nidhi Kumari

4.1.2 GEOLOGY OF THE AREA

The Archaeans are the oldest rock formation in the state. The most predominant rock type is mainly of gneisses and granitic rocks with lesser amount of schists, quartzites, basic intrusives and pegmatoides. They are exposed in Aurangabad, Gaya, Nawada, Jamui, Bhagalpur and Banka districts.

Based on broad geomorphic parameters such as relief, drainage pattern and geology, Bihar may be divided into three geomorphic domains.

(i) Uplifted block of hilly southern highlands comprising the northern part of the Kodarma- Santhal Pargana planation surface, falling in parts of Bihar, northern fringe or escarpment of Chotanagpur plateau and Rohtas plateau

(ii) The transition zone between the southern highlands and the Great Ganga Plains, constituting the central Bihar Plains, and

(iii) The Ganga foredeep of the North Bihar Plains bounded by the rising Himalaya in the north and the Ganga R. in the South

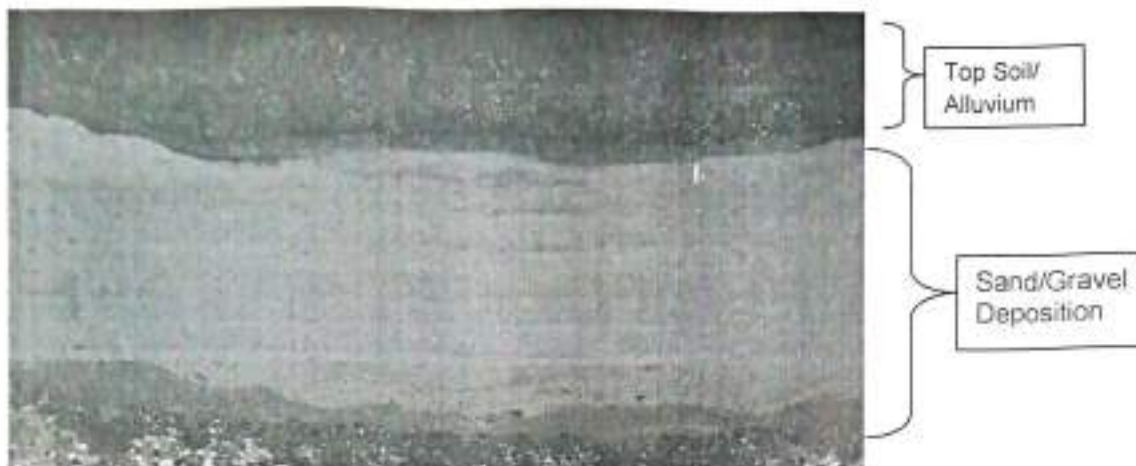
4.1.3 Local Geology

Kiul River is a tributary of Ganges. It originates in Giridih of Jharkhand and flows through Lakhisarai, Sheikhpura and Jamui districts of the Indian state of Bihar and joins Harohar river in the Diara region. Kiul originates from the Tisri Hill Range in Kharagdiha police station area of Giridih district. After forming the boundary of the district for a short distance it enters Jamui district through a narrow gorge near the Satpahari hill. It first flows in an easterly direction close to the southern base of the Girdheswari Hills. It turns northward at their eastern extremity and passes near the town of Jamui. Two miles south of Jamui it is joined by Barnar, below this point it receives the Alai, a mountain stream and near Jamui railway station it is joined by the Anjan. It then flows north-east up to Lakhisarai. It passes below the railway bridge between Kiul junction and Lakhisarai station and is joined a few miles north of that place, near Rahua Ghat, by the Harohar (Halahar or Harhobar), a continuation of the Sakri River. After this it turns due east and falls into the Ganges near Surajgarha. Until it meets the Harohar the Kiul has broad sandy bed and in some places is as much as half a mile wide, though it contains very little water in summer.

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).

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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 up to a depth of more than 1.0 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.

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 Pvt. Ltd.

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Arindam Kumar
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- Highly Dissected pediment
- Un-dissected pediment
- Distribution of Basin Area River wise
- Drainage System/Pattern of the area, Rainfall & Climate: Year wise Rainfall data for previous 5 years .
- As per Dandy & 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 KIUL RIVER:-

Replenishment Rate is the rate at which sand 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 sand discharge through stream bed and its residence period (temporary deposition) is one of the most difficult task in sediment budgeting.

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.

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This report quantifies the annual replenishment of bed material in the Kail River during periods of sediment transport at high flows within the mined area. It provides estimates of the amounts of sand & baji 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 RI/level are marked & mapped and sections are drawn for several monitoring locations within the mine area. After that, for post-monsoon season again spot RI/level are marked & mapped on the same location and sections are drawn. The RI (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 Reserve	111	246000
Total		246000

Replenished quantity of sand = 246000 cum. or 509220 tonnes.

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 24.60 Hectares and the average thickness of the river bed minerals estimated as 1.0 mt.

4.4.1 Parameters of Reserve Estimation:

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

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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 tipper 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 in 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 1 m from surface has been considered as proved reserves.

Classification	Code	Quantity of Sand
A) Mineral Reserves		Cum
1) Proved Mineral Reserves	111	246000
Total		246000

Total Geological Reserve = 246000 cum or 509220 tonnes

*Bulk density is 2.07 g/cm³.

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Director

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4.4.2 Mineable Reserves:

Mineable reserves have been computed up to 1m depth from surface. The volume multiplied by bulk density (2.07 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 paleochannels of the river will be leveled & restored back.

Table-4.4:- Summary of minable reserves of Block No.- 07 Sand Ghat as below:

BLOCK NO.- 07 SAND GHAT OF KIUL RIVER

Block No.- 07 Sand Ghat					
Level (mRL)	Length (m)	Width (m)	Depth (m)	Volume (cum)	Tonnes
54-53	962	234	1.0	225090	465936
Total				225090	465936

Total Mineable Reserve = 225090 CUM or 465936 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 **147600 cum** per year which is within the sustainable limit of mineable reserve.
- The BD for Sand has been adopted at 2.07 kg/m^3 [Lab Report of Rapid Test Lab Private Limited]

• CLASSIFICATION MINERAL RESERVES

Sand Ghat	Area (Hect.)	Geological Reserves (m3)	Mineable Reserves (m3)	Annual Mineable Permitted Reserve As per Loi (m3)
Block No.- 07	24.6	246000	225090	147600

The annual extractable RBM comes to 147600 CUM or 305532 Tonnes. It will be replenished after rainy season every year.

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Director

Prachi Kumari

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.

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Kidli Kumari

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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/JCBs 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 1 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.
- 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 of 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.
- 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 metres.



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Director

- 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 1.0m. 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.
- 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:

Year wise annual exploitation of sand from Block No.- 07 Sand Ghat are given below :-

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Anidhi Kumari

YEAR	Over burden (cum)	ROM Sand (cum)	Saleable Sand (cum)
1 ST	-	147600	147600
2 ND	-	147600	147600
3 RD	-	147600	147600
4 TH	-	147600	147600
5 TH	-	147600	147600

The annual extractable RBM comes to 147600 CUM or 305532 Tonnes. It will be replenished after rainy season every year.

5.4 Conceptual Mining Plan

Mine Applied Area will be worked for Block No.- 07 Sand Ghat. However, as the digging depth will be restricted to 1.0 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: River bank side will be protected by working in dry part of the river and by leaving safety distance of the width from the river bank 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.

(iii) Ultimate Capacity of Dumps: There will be no OB removal / during the plan period. There for 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 equipments to be used:

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Nidhi Kumari

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	4
3	Trucks	12 tonnes	4 Ltr/hr	92
4	Tractors	04 Tonnes	2 Ltr/hr	31
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 of Diesel (in lits/ day.)
1.	Excavator & JCB	Number of Excavator & JCB = 4&2 Diesel consumption by 2 jcb & 4 Excavators m/c in one shift working.(i.e-10/15litre/hr) =2*8*10= 160 liters & 4*8*16= 512 liters	672 liters
2	Tippers/Tractors	Number of Tractors & Trucks = 92 & 31 Diesel consumption by 92 trucks & 31 Tractors in one shift working (i.e-4ltr/hr.) & 2, e-2 ltr/hr.)	3440 liters

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Director

Pradip Kumar

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		$=31*2*8 = 496$ $=92*4*8= 2944$	
3	Water Sprinkler	Number of Sprinkler=01 Diesel consumption by Sprinkler in one shift working.(i.e-4ltr/hr). $=1*10*4=40$ liters.	40 liters
4	Extra	Transport vehicle, super vision vehicle, maintenance vehicle	25 liters
			Total= 4177

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 up to a maximum of **305532 TPA** as per marked demand.



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Director

Anidhi Kumari

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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Kumari Prati

Anjali Kumari

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 1.0 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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Kumari Pruthi

Director

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Pravin Kr. Sinha

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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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Kimari Pruthi

Pradip Kumar

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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Kumari Preeti
Director

Anidevi Kumari

CHAPTER - 10

10.0 OTHERS

3.3 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 05 KLD, its breakup is as under:-

Table: 10.1- Water Requirement of the proposed project

S.No.	Purpose	Water Requirement (KLD)
1.	Dust Suppression	02
2.	Domestic	01
3.	Green Belt	02
Total		05

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Kumar Pruthi

Director

Arindam Kumar

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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	7
4.	Un-skilled	25
TOTAL		35

The maximum annual production envisaged is 305532 TPA which will be achieved every year that implies about 1222 tonnes per day 250-working days in a year. That implies 35 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.



Eklavya Stone & Mines Pvt. Ltd.

Kumari Pruthi
Director

Prepared by: *Nidhi Kumari*
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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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Director

Anidhi Kumar

Prepared by: Pravin Kr. Sinha Reg. No. - ROVBH/SR/MS
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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, 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 waste will be thrown into the streams or left on

		the banks.
3.	Plantation programme	Plantation will be done along both sides of road 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 from the mine site and nearby villages and analyzed.
5.	Noise	Excavators used for mining & transportation vehicles used for dispatch of minerals are sources of noise pollution at mine site. Hence periodic 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 operation 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 project 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 the project. Water sprinkling on the haul roads/feeder roads will be done two times in a day to keep the dust suppressed. Also proper parking and traffic management will be followed.

Enclave Stone & Mineral Survey

Kumari Preeti

Anjali Kumari

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Prepared By: Pravin K. Sinha Reg. No. - RGP/2019/04
Letter No. 3825 Dated 07/11/2019

CHAPTER-13

CONCLUSION:

The proposed project involves collection of sand from inactive channel of river bed of Kiul 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.



Eklavya Stone & Mines Pvt. Ltd.

Kumari Preeti

Director

Nidhi Kumari

Prepared by: Praveen Kr. Sinha Reg. No. - RQP/BIH/SR.NO.20
Letter No. 3826 Dated 07/11/2019

PROGRASIVE MINE CLOSURE PLAN



PART B**PROGRESSIVE MINE CLOSURE PLAN****1.0. Introduction:**

1.1	Settlee Name & Full address Phone. No. E-mail ID	Eklavaya Stone And Mines Pvt. Ltd. Director – Nidhi Kumari W/o – Eklavya Kumar or Kumari Priti W/o – Shree Akhilesh Kumar, Village – Pathra English, Post- Orhanpur, P.S. Muffassil, District- Nawada (Bihar). 99550 72509 vrepl@rediffmail.com
1.2	Letter no. / date of lease execution & lease period	District Magistrate issue LOI on letter no. 1453 dated. 16.11.2022 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 No.- 07 Sand Ghat Lease has an applied area of 24.60 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 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	17.11.2022

Eklavaya Stone & Mines Pvt. Ltd.

Kumari Priti
DirectorPrepared by: Pravin K. Sinha Reg. No. - RQP/BIH/SR.NO.20
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Nidhi Kumari



a). **Location:** Block No.- 07 Sand Ghat fall in Mauza- Nagardar & Chanan Dist - Lakhisarai (Bihar). The location plan is enclosed (Plate No. 1)

b). **Extent of Lease area:** 24.6 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	24.60	-	-	-
	Total	24.60	-	-	-

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 1 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.
- Mining will be done only during the day time and completely stopped during the monsoon season.

Eklavya Stone & Mines Pvt. Ltd.

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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 paleochannels 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:**

Eklavya Stone And Mines Pvt. Ltd.
Director – Nidhi Kumari W/o – Eklavya Kumar or
Kumari Priti W/o – Shree Akhilesh Kumar,
Village – Pathra English, Post- Orhanpur,
P.S. Muffassil, District- Nawada (Bihar).

99550 72509

vrclpl@rediffmail.com

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

Er. Pravin Kr Sinha

201, Mangal Market

Raja Bazar, Patna

Reg. No. - RQP/BIH/SR.NO.20 LETTER NO.3825 DATED 07/11/2019

Mob. No.- 9889024004 & 7542949027

Email ID: indusminingbihar@gmail.com

**c). Name of the executing agency:**

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

2.0 Mine Description:

Eklavya Stone & Mines Pvt. Ltd.
Kumari Priti

Director

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

The area represents a rough and rugged topography. A detailed geological map on 1:100,000 scale with contour interval. The area shows a general slope toward N-E while the highest RL is 51.7 m occurring on the South -East side of the area along boundary pillar, whereas the lowest RL is 51.7 m within the lease area is found along N-E slope near boundary line. The surface geology of the area.

ii) GEOLOGY OF THE AREA :-

The Archaeans are the oldest rock formation in the state. The most predominant rocks are mainly of gneisses and granitic rocks with lesser amount of schists, quartzites, basic igneous rocks and pegmatoides. They are exposed in Aurangabad, Gaya, Nawada, Jamui, Bhagalpur and Banka districts.

Based on broad geomorphic parameters such as relief, drainage pattern and geology, Bihar can be divided into three geomorphic domains.

- (i) Uplifted block of hilly southern highlands comprising the northern part of the Kosi, Santhal Pargana planation surface, falling in parts of Bihar, northern fringe or escarpment of Chotanagpur plateau and Rohtas plateau
- (ii) The transition zone between the southern highlands and the Great Ganga Plains, consisting of the central Bihar Plains, and
- (iii) The Ganga foredeep of the North Bihar Plains bounded by the rising Himalaya in the North and the Ganga R. in the South

LOCAL GEOLOGY OF THE AREA:

Kiul River is a tributary of Ganges. It originates in Giridih of Jharkhand and flows through Lakhisarai, Sheikhpura and Jamui districts of the Indian state of Bihar and joins the Harohar river in the Diara region. Kiul originates from the Tisri Hill in Kharagdiha police station area of Giridih district. After forming the boundary of the district for a short distance it enters Jamui district through a narrow gorge near the Satpahari hill. It flows in an easterly direction close to the southern base of the Girdheswari Hills. It flows northward at their eastern extremity and passes near the town of Jamui. Two miles south of Jamui it is joined by Barnar, below this point it receives the Alai, a mountain stream. At Jamui railway station it is joined by the Anjan. It then flows north-east up to Lakhisarai.

Kumari Prateek

Director

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Jamui railway station it is joined by the Anjan. It then flows north-east up to Lakhisarai. It passes below the railway bridge between Kiul junction and Lakhisari station and is joined a few miles north of that place, near RahuaGhat, by the Harohar (Halahar or Harhobar), a continuation of the Sakri River. After this it turns due east and falls into the Ganges near Surajgarha. Until it meets the Harohar the Kiul has broad sandy bed and in some places is as much as half a mile wide, though it contains very little water in summer.

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 1.0 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 1.0 m lies all over the area & area replenish every during the monsoon period. Therefore no proposal of exploration has been given.

2.2 Reserves:

BLOCK NO.- 07 SAND GHAT

Geological Reserves :-

Classification	Code	Quantity of Sand
A) Mineral Reserves		Cum
1) Proved Mineral Reserves	111	246000
Total		246000



Total Geological Reserve = 246000 cum or 509220 tonnes

Mineable Reserves :-

Block No.- 07 Sand Ghat					
Level (mRL)	Length (m)	Width (m)	Depth (m)	Volume (cum)	Tonnes
54-53	962	234	1.0	225090	465936
Total				225090	465936

Total Mineable Reserve = 225090 CUM or 465936 Tonnes

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Director

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- 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 147600 cum per year which is within the sustainable limit of mineable reserve.
- The BD for Sand has been adopted at 2.07 kg/m³ [Lab Report of Rapid Test Lab Private Limited]

• CLASSIFICATION MINERAL RESERVES:

Sand Ghat	Area (Hect.)	Geological Reserves (m3)	Mineable Reserves (m3)	Annual Mineable Permitted Reserve As per LOI (m3)
Block No.- 07	24.6	246000	225090	147600

The annual extractable RBM comes to 147600 CUM or 305532 Tonnes. It will be replenished after rainy season every year.

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 1.0 m only. An approach road having width 6.0 m & 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.
- 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.

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- 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 restrict to 1.0m. Mining operation shall be suspended during monsoon period. The mined out pit shall be replenished during the monsoon period by sand and silt & levelled 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	-	24.60
Approach road	-	-
Top soil Stack	-	-
Interburden dump	-	-
Backfilled pit	-	-
Total	-	24.60



(A) Mining:

Sl. No.	Activities	Area(Ha)
1.	Area already broken up	-

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Director

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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 inter burden dump.	Nil
4.	Dump area to be covered by protective measures	-

(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 with in 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 Tube well.

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.

Eklavya Stone & Mines Pvt. Ltd.

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Prepared by: Pravin K. Singh Reg. No. - RQP/HR/2019
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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.

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 mechanised 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. Hanging of loose materials shall be removed from mine faces.
3. The mining area shall be properly fenced to avoid any inadvertent entry in to mining pit.
4. Working hours shall be displayed at conspicuous places.

Elkayaya Stone & Minerals Pvt. Ltd.
Kumar Pruthi
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Director

Nidhi Kumari
Prepared by: Pruthi K. Sishu Reg. No. - RQP/BIH/SR.NO.28
Letter No. 3825 Dated 07/11/2019

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 1m 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.

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.

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

Extends
Keemari Pruthi

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Nidhi Kumari

Prepared by: Pravin K. Sinha Reg. No. - ROPMMSK/30
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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



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Kumari Prati
 Director

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Mridha Kumari
 Prepared by: Mridha K. Sinha Reg. No. - RQP/III/SR.NO.20
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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	50	1000/-	250000
v) Reclamation (Cum.)	-	-	-	-	-	-	40cum	-
Total								250000

Eklavya Stone & Mines Pvt. Ltd.

Kumari Pruthi Director

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Nidhi Kumari

Prepared by: Pravin K. Saha Reg. No. - RQP/08/2019
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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	-

Ekavava Stone & Mines Pvt. Ltd.
Kumari Prachi
 Director

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Anidhi Kumari
 Prepared by: P. K. Sr. Sinha Reg. No. - RQP/BIH/SR.NO.20
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9.0 Financial Assurance:

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

Sl. No.	Head	Area put on 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	-	24.60	24.60	24.60	0
2.	Storage for top soil	-	-	-	-	0
3.	interburden/ 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		24.60	24.60	24.60	-

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: Lakhisarai

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

Eklavya Stone & Mines Pvt. Ltd.
Kumari Pruthi
Director

14

Nidhi Kumari
 Prepared by: Pravin Kr. Sinha Reg. No. - BQ08R/SLS/1
 Letter No. 4825 Dated 07/11/2019

ANNEXURE



**Eklavya Stone and Mines Pvt. Ltd.**

Ref.

Date:

AUTHORISATION LETTER BY THE APPLICANT/ LESSEE

I, Nidhi Kumari hereby authorise *Er. Pravinkumar 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 Eklavya Stone And Mines Pvt. Ltd. at over an area of 24.60 Hectare for mineral(s) for Block No.- 07 Sand Ghat in Mauza- Nagarada and Chanan, Lakhisarai (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

Place : Lakhisarai

Date :

Proponent,

**Eklavya Stone & Mines Pvt. Ltd.***Kumari Priti*
Director

Director - Nidhi Kumari
W/o - Eklavya Kumar or
Kumari Priti W/o - Shree Akhilesh Kumar,
Village - Pathra English, Post- Orhanpur,
P.S. Muffassil, District- Nawada (Bihar).

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 No.- 07 Sand Ghat Mining Plan, Mauza- Nagardar and Chanan, District- Lakhisarai (Bihar) and wherever specific permissions are required, the lessee will approach concerned authorities for granting permission.
2. The information furnished in Block No.- 07 Sand Ghatis true and correct to the best of my knowledge.



(Pravin Kumar Sinha)

Regd.No: RQP/BIH/SR.NO.20



Place: - Patna

Date:-

Nidhi Kumari

(Accreditation Certificate)



NATIONAL ACCREDITATION BOARD FOR EDUCATION & TRAINING
QUALITY COUNCIL OF INDIA

6th Floor, ITPI Building, Ring Road, I.P. Estate, New Delhi

Scheme for Accreditation of EIA Consultant Organizations

Accreditation Committee Meeting for Initial Accreditation held on

December 20, 2019

The following members were present during the meeting:

- | | |
|----------------------------|------------|
| 1. Prof. B.B. Dhar | - Chairman |
| 2. Prof. C. P. Kaushik | - Member |
| 3. Dr. P. Ahujarai | - Member |
| 4. Dr. J. P. Gupta | - Member |
| 5. Prof. Umesh Kulshrestha | - Member |
| 6. Mr. A. K. Ghose | - Member |

Dr. S. R. Wate, Prof. Rajesh Khanna and Prof. G. J. Chakrapani expressed their inability to attend the meeting.

Prof. B. B. Dhar chaired the meeting in absence of Dr. S. R. Wate.

Mr. A.K. Jha – Senior Director, Dr. Pawan Kumar Singh – Assistant Director and Mr. Vipin Pant- Accreditation Officer were present in the meeting.

Following case was discussed and decisions taken thereof are:

1.0 Case of Initial Accreditation

1.1 P and M Solution, Noida

P and M Solution, Noida has been assessed as per Version 3 of the Scheme. Result of Initial Accreditation (IA) assessment is given below-

1.1.1 Category of Approval:

The organization has scored more than 60% marks therefore, is accredited with Cat. A.

1.1.2 Scope of Accreditation

Sl. No.	NABET Scheme Sectors	Sector Description	Cat.	Sector Number (MoEFCC Notification dt. Sep. 14, 2006 & Amendments)
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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	
		EB	Yes	Yes	B	
2	Pravin Kumar Sinha	GEO	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.

Sl. No	Name	Functional Areas (FA)			Cat.	Remarks
		Applied	Recommended	Approved		
	Vikas Chand Tripathi	AP	Yes	Yes	B	None
		RH	Yes	Yes	A	
		AQ	Yes	Yes	B	
10	Neha Singh	NV	Yes	Yes	B	None
		WP	Yes	Yes	B	
		AP	Yes	Yes	B	
11	Debarati Ghosh	LU	Yes	Yes	B	With an observation.
12	Poonam Kumari Mangalam	LU	Yes	Yes	B	None

1.1.5 Functional Area Associates (FAAs)

Sl. No	Name	Functional Area (FA)		Name of Mentor/FAE	Remarks
		Applied	Approved		
1	Deepika Bisht	SC	-	-	Left the organization.
		EB	-	-	

Note: The following will be communicated to the ACO by NABET

- Detailed Observations (if any)
- Result of balance candidates

The meeting ended with a vote of thanks to the Chair.
Issued by

(A K Jha)
Senior Director
QCI-NABET

(Approved RQP under Bihar
Government)



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

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

2. आमंत्रित Expression of Interest के तहत कुल 36 आवेदन विभाग को प्राप्त हुए जिसमें से कंडिका-14 में उल्लेखित प्रतिष्ठान भूमि इन्वायरटेक प्रा0 लि0 को योग्यता संबंधी प्रमाण पत्र नहीं संलग्न करने के कारण तथा कंडिका-34 में उल्लेखित मेसर्स संयुक्त इन्फ्रा को संबंधित योग्यता प्रमाण पत्र संलग्न नहीं होने के कारण अयोग्य घोषित करने का निर्णय लिया गया तथा शेष 34 को Empanelled करने का निर्णय लिया गया विवरणी निम्नवत है :-

Sl. No.	Name	Contact Number	Qualifications	Rate for preparation of Mining Plan (per Ha)	Rate details	Address
1	Dr. Radha Nand Singh	9430252322 8340280122	M.Sc. Geology	Rs. 15,000/- (including of Tax & GST)		Dr. R.N Singh, 1st Sector 7, Block 20, HSG P.O. Bahadurpur, Patna-800001
2	Shiva Test House	7903157774	M.Sc. Geology	Rate Slab attached	Rs. 10,000/- each Ha. Rs. 8,000/- for each subsequent additional Ha. (above rates are inclusive of 18% GST)	122 C, Aestha, S A, Patliputra, Patna-800001
3	Dr. Amarjeet Kumar Singh	9431508228	Ph.D (Geology)	Rs. 20,000/- GST will be charged as per Government rules		S/O-Udho Singh, Sri Indrajit, Singh, At & Post District-Sheikhpur, Bihar-841306
4	Rajesh Kumar	8008802447	B.E. (Mining Engineer)	Rate Slab attached	Minimum INR 25,000/- per mining plan upto 3 Hectare. For more than 3 Hectare the rate shall be increase @INR 10,000/- per Hectare.	Plot No. 17, New Building, Sector 1, Near Metro Pump, Morha, Patna-800001
5	Dr. Abdul Rahman	7870527271	Ph.D in Geology	Rs. 8,000/- (inclusive of Taxes)		B-7371, Colony, Kankarbagh, Patna-800001
6	Punit Lala Mahto	9911537948 8709005622	M.Sc. (Geology)	Rs. 11,800/-	Rate per Hectare @10,000/- + GST @18% (Rs. 1800) =Rs. 11,800/-	House No. 12, Bhawan, Near Sikandarpur, Patna-800001
7	Sanjay Kumar	943106886	M.Sc. (Geology)	Rs. 25,000/-	Negotiable	Vastu, Sector 1, Janakpuri, Near Karam's School Road, Dandara, Patna-800001
8	Er. Navin Kumar Sinha	7366973516	B.E. (Mining)	Rs. 10,000/-		Er. Navin Kumar, A-112, Sanjay Nagar, Kailash, Patna-800001

20	Pravin Kumar Sinha	7542949027	B.E (Mining)	Rs. 2,000/- per Hectare (Each Block Mining Plan - Rs. 30,000/-)	201, 2nd Floor, Mangal Market, Raja Bazaar, Bailey Road, Patna-14
21	Md. 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. 8,000/-	Flat No-101, Road No.-01, Boodh Nagar, Chiriy Tard, Postal Park, Patna-800001
23	Ashok Kumar Singh	8766859804	Mining Engineer	Rs. 8,000/-	C/o Shri Ram Prasad Singh, Mohalla - Mogal Kuan, P.O. - Sohsara, P.S. - Sohsara, Dist.-Nalanda, Bihar- 803118
24	Sandeep Kumar	8126253120	M.Sc. (Applied Geology)	Rs. 10,000/-	Anpurna Bhavan, C/O Ravi Kishan, Sundar 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, Anishabad, Patna-800002
26	Rian Enviro Pvt. Ltd	9431289638	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.	9204207920	Required Qualification of the employees attached	Rs. 4,750/- (Inclusive all Taxes)	401, 4th 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. 2, Magistrate Colony, Ashiyana Nagar, Patna - 800025, Bihar
29	Gramin Lok Seva	9934452711	Qualifications of candidates are attached	Rs. 7,000/-	Note - 1. Minimum rate for a Sand Block - INR 25,000/- 2. Maximum rate for a Sand Block - INR 60,000/- OR As decided by the Department of Mines & Geology, Govt. of Bihar Remarks - Fee should not be less than 20,000 or more than 50,000 thousand for single block. (Excluded GST) OR As decided by the Department of Mines & Geology, Govt. of Bihar 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%)	109, Bhagwati kunj apartment, Road No. - 3D, Anand vihar Colony, Rukampura, Patna (Bihar)- 800014
31	Institute of Environment and Eco Development	7004620817	Details Of Qualification Attached	Rs. 10,000/- (Excluding GST)	Rate will be negotiable as per direction from Department of Mines & Geology, Govt. of Bihar Admin. Office--Ground floor, Shyam Nagar Colony, Maurya Path, Bailey Road, PO-B.V. College, Patna--800014
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

33	Indinine Pvt. Ltd.	9431040119	Bachelor of Engineering (Mining)	Rate for each District is enclosed	Enclosure A	H. No-21, Block Colony, 1st Floor, South of Main Housing, Main Road, Karkardaha, C/O Mr. Anil, plot No. 1, 10/1, 23 Near Noida, Sri Krishna Nagar, -201301
34	M/S Sanyukt Infra	7296069668	Bachelor of Architecture	Rs. 3,500/-		
35	Saathi Planners Pvt. Ltd.	9835877778	Details of qualification attached	Rs. 12,000/-		
36	Overseas Min-Tech Consultants	9460221084	Details of qualification attached	Rs. 13,000/-		501, 5th Floor, Tower, Sakinaka, Jaipur-302004, 0141-2444

3. प्राप्त सभी EOI की समीक्षा के उपरान्त विभागीय समिति द्वारा सर्वसम्मति से खनन योजना हेतु देय राशि प्रति खनन योजना अधिकतम ₹30,000/- (तीस हजार) रु० GST सहित (चाहे माइनिंग प्लान कितने भी हेक्टेयर का हो) का भुगतान की अनुशंसा की गई।

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

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

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

ह०/- स०आ०वि०स०, सदस्य
ह०/- स०नि० (मु०), सदस्य
ह०/- अवर सचिव, सदस्य
ह०/- उप निदेशक, पटना अंचल, पटना सदस्य
ह०/- उप निदेशक (मु०), सदस्य
ह०/- अपर सचिव-१ निदेशक, अध्यक्ष

ह०/-
सरकार के अवर सचिव

ज्ञापांक:-...../एम०, दिनांक:-.....

प्रतिलिपि:- सभी समाहर्ता को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-
सरकार के अवर सचिव

ज्ञापांक:-...../एम०, दिनांक:-.....

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

ह०/-
सरकार के अवर सचिव

ज्ञापांक:- 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।

[Signature]
21/11/19

[Signature]
सरकार के अवर सचिव



अंचल कार्यालय चानन

पत्रांक- 717 / दिनांक- 09.11.22

प्रेषक,

अंचल अधिकारी,
चानन।

सेवा में,

खनिज विकास पदाधिकारी,
लखीसराय।

विषय :-

लखीसराय जिलान्तर्गत संचालन होने वाले बालूघाटों का खाता सं०, खेसरा सं०, रकबा का प्रतिवेदन भेजने के संबंध में।

प्रमाण :-

भवदीय पत्रांक-1407/एम०, दिनांक-07.11.2022

महोदय,

उपर्युक्त प्रसांगिक पत्र के संबंध में कहना है कि लखीसराय जिलान्तर्गत संचालन होने वाले बालूघाटों का खाता सं०, खेसरा सं०, रकबा भौतिक जाँच प्रतिवेदन प्राप्त हुआ है। जिस मूल प्रति संलग्न कर आवश्यक कार्रवाई हेतु प्रेषित।

सादर सूचनार्थ प्रेषित।

अनु०-यथोक्त।

विश्वासभाजन,

अंचल अधिकारी



येहाँ में, बीगा १ अंक का जिक्र किया गया है

विषय - जिसका लक्ष्य है कि किसानों को बीगा १ के बारे में जानकारी दी जा सके और वे इसे अपने खेतों में लागू कर सकें।

महाराज,

सोचना है कि आपके गाँव का बीगा

अथा; समस्त जमीन का बीगा

में जहाँ जहाँ भी किसानों का खेत है उसे बीगा में जोड़ना है।

मौजा में जहाँ जहाँ भी खेत है उसे बीगा में जोड़ना है।

क्र.सं.	BLOCK NO	मौजा	खेत	समस्त	बीगा	किसानों का नाम
1	BLOCK No 04	समस्त	70	01	30 अंक 540 बी	श्रीमान श्रीमान
		जमीन	129	404	17 अंक 520 बी	श्रीमान श्रीमान
		अधीन	54	10/376	08 अंक 82 बी	श्रीमान श्रीमान
2	BLOCK No 05	अधीन	54	10	43 अंक 520 बी	श्रीमान श्रीमान
		जमीन	208	405	06 अंक 549 बी	श्रीमान श्रीमान
3	BLOCK No 06	जमीन	208	01	87 अंक 580 बी	श्रीमान श्रीमान
4	BLOCK No 07	जमीन	89	366	46 अंक 550 बी	श्रीमान श्रीमान
		जमीन	89	15	36 अंक 575 बी	श्रीमान श्रीमान
		जमीन	89	01	33 अंक 555 बी	श्रीमान श्रीमान
5	BLOCK No 08	जमीन	256	250	59 अंक 585 बी	श्रीमान श्रीमान
		जमीन	65	01	96 अंक 580 बी	श्रीमान श्रीमान

क्र	Block No.	मौजा वागान	व्यापक	व्यापक	खलिधान में रमा	कृषि का प्रकार एवं फसल
6	Block No 11	वडा	65	01	96 अक्ष 80	गैरमजरा का काम नहीं
		53 11	65	555	47 अक्ष 90	गैरमजरा का काम नहीं
7	Block No 12	पुठौरा 52	168	1226	150 अक्ष 57	गैरमजरा का काम नहीं

अतः खलिधान के लिये वागान वाली का मौजा नम्बर 11/96
 एवं 14वां सर्वे नम्बर 11 एवं खलिधान से जोड़ने
 किया गया है।

प्रिन्सिपल गान 7

रिक्टर कुमाल

8-11-22



जिला खनन कार्यालय, लखीसराय।

पत्रांक - 1473/एनडी दिनांक 16/11/2021

प्रति,

एकलव्य स्टोन एण्ड माईन्स प्रा० लि०
निदेशक-निधि कुमारी सिंह- एकलव्य कुमार
एवं कुमारी प्रीति पति- श्री अखिलेश कुमार, पता- प्र०- पथरा
इगलिंग प०- ओडनपुर, धाना- मुफसिल जिला- नवादा, पिन- 805104/126

विषय- लखीसराय जिलान्तर्गत किडल नदी ब्लॉक न०-07 की बन्दोबस्ती हेतु सैद्धान्तिक स्वीकृतिपत्र निर्गत करने के संबंध में।

महोदय,

उपरोक्त विषय के संबंध में सूचित करना है कि लखीसराय जिलान्तर्गत किडल नदी ब्लॉक न०-07, सीज-नगरदार, धानन की ई मीलानी द्वारा बन्दोबस्ती में एकलव्य स्टोन एण्ड माईन्स प्रा० लि० निदेशक-निधि कुमारी पति- एकलव्य कुमार एवं कुमारी प्रीति पति- श्री अखिलेश कुमार, पता- प्र०- पथरा इगलिंग प०- ओडनपुर, धाना- मुफसिल जिला- नवादा, द्वारा उच्चतम बोली की राशि- 2,55,69,000/- (दो करोड़ पैंतस लाख अठसठ हजार) रुपये मात्र की बोली लगाकर नीलामी ली गई है। नीलामी की राशि का 20% प्रतिभूति राशि (अग्रपंजी की राशि को समावेशित करते हुए) कुल- 11,07,000/- (ग्यारह लाख साठ हजार) रु० मात्र जमा करने के उपरान्त सैद्धान्तिक स्वीकृतिपत्र निर्गत किया गया है।

1. बालू खनन क्षेत्रों का विवरण निम्न प्रकार है :-

क्र. सं.	नदी घाट का नाम एवं पता	Area (Hectare)	GPS CO-ORDINATES LATITUDE & LONGITUDE		
1	किडल नदी ब्लॉक न०-07, सीज- नगरदार, धानन, लखीसराय।	24.6	A	25° 4' 47.55" N	86° 8' 34.87" E
			B	25° 4' 33.31" N	86° 8' 57.52" E
			C	25° 4' 23.09" N	86° 9' 3.66" E
			D	25° 4' 19.38" N	86° 8' 59.04" E
			E	25° 4' 31.54" N	86° 8' 47.75" E
			F	25° 4' 39.80" N	86° 8' 29.76" E
2	वन क्षेत्र से दूरी				2.1km
3	सुरक्षित क्षेत्र/धन अभ्यारण्य क्षेत्र/पक्षी अभ्यारण्य/वन्य जीव आश्रयण क्षेत्र से दूरी				3.2km
4	बालूघाट/बालूखण्ड से 500 मीटर के अन्दर खनन पट्टा क्षेत्र की स्थिति			है (ब्लॉक -06, रकबा-332 हेक्टर)	
5	पुरातात्विक स्थल से दूरी				नाहू नहीं
6	खनन योग्य मात्रा				147600 M ³



2. भुगतान की शर्तें:-

- नीलामी- राशि केवल प्रथम वर्ष के लिए बंदोबस्ती की राशि मानी जाएगी। दूसरे वर्ष और उसके अनुक्रमी वर्षों में बंदोबस्ती की राशि गत वर्ष की बंदोबस्ती राशि के 120 प्रतिशत अथवा समय-समय पर सरकार द्वारा निर्धारित निदेशों के अनुरूप होगा।
- प्रतिभूति जमा के अतिरिक्त बंदोबस्तधारी निम्नलिखित समय सारणी/भुगतान अनुसूची के अनुसार बंदोबस्ती की राशि का भुगतान करेगा:-

लखीसराय

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%)	03 महीना पूरा होने से पहले।
तृतीय किस्त (25%)	06 महीना पूरा होने से पहले।

3. **GST का भुगतान:-** बंदोबस्तधारी को जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वाणिज्य कर विभाग को भुगतान करना होगा। जिला खनन कार्यालय, लखीसराय में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।
4. **आयकर/अन्य करों का भुगतान:-** बंदोबस्तधारी को आयकर अधिनियम के तहत आयकर एवं उस पर नियमानुसार देय अधिभार का भुगतान आयकर विभाग के प्रचलित दर के अनुसार एक मुस्त करना होगा। यह राशि बंदोबस्ती राशि के प्रत्येक किस्त के साथ देय होगी। जिला खनन कार्यालय, लखीसराय द्वारा यह राशि आयकर मंद में जमा करा दी जायेगी।
5. **जिला खनिज फाउण्डेशन:-** सफल डाकवक्ता को बंदोबस्ती राशि की 2 प्रतिशत राशि जिला खनिज फाउण्डेशन को जिला पदाधिकारी के पदनाम से भुगतये बैंक ड्राफ्ट के माध्यम से जिला खनिज फाउण्डेशन नियमावली, 2018 के अनुसार करना होगा।
6. **वैधानिक अनापत्ति:-** बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति (जैसे- खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि सफल डाकवक्ता द्वारा प्राप्त की जाएगी। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात् ही बालू खनन प्रारंभ किया जा सकेगा। वैधानिक अनापत्ति/अनुमति के बिना अथवा वैधानिक अनापत्ति/अनुमति में अनुज्ञात मात्रा से अधिक मात्रा या निर्धारित क्षेत्र से बाहर खनन किए जाने की दशा में सुसंगत नियमों के अनुसार संबंधित सफल डाकवक्ता/बंदोबस्तधारी पर कार्रवाई की जाएगी। वैधानिक अनापत्ति/अनुमति निम्नानुसार है:-
 - i. **खनन योजना:-** खनन योजना प्रमाणी नियमों में उल्लिखित प्रावधानों के अनुसार सफल डाकवक्ता/बंदोबस्तधारी द्वारा QCI/NABET से मान्यता प्राप्त Professional RQP से तैयार कर निदेशक, खान या विभाग द्वारा प्राधिकृत पदाधिकारी के समक्ष लेटर ऑफ इंटेन्ट 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 समाहर्ता/विभाग अन्य ऐजेंसी चयनित कर सकेगा, जिसका निर्धारित फीस/चार्ज भी बंदोबस्तधारी को ही वहन करना होगा। सफल डाकवक्ता/बंदोबस्तधारी खनन योजना के अनुसार खनन करना सुनिश्चित करेंगे।
 - ii. **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 रीति 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।




 जिला खनिज विकास पदाधिकारी
 लखीसराय

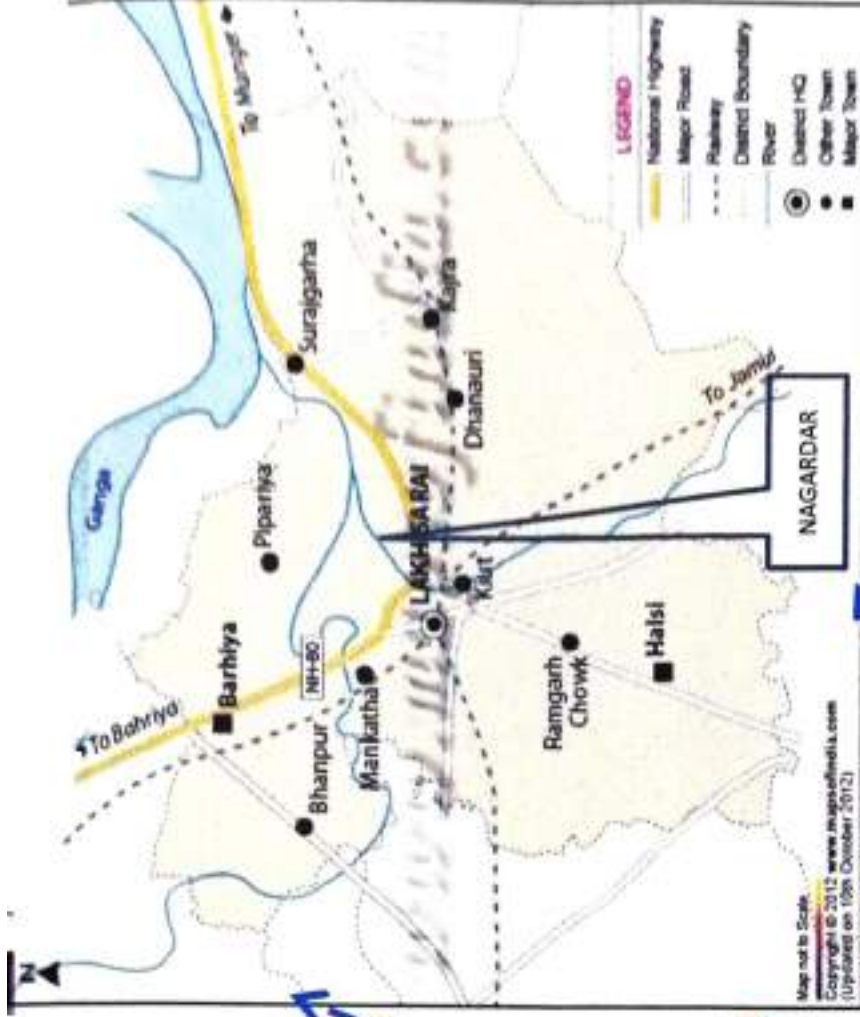
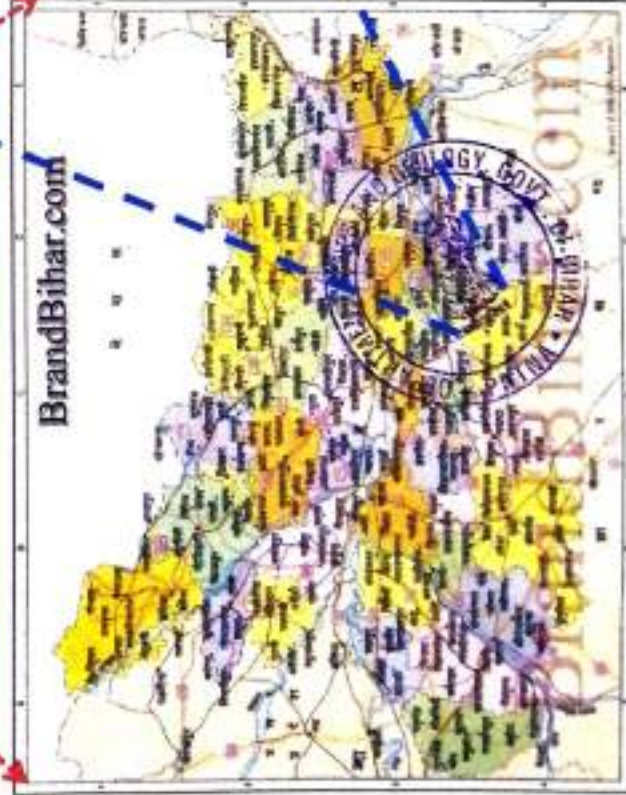
- (ix) बंदोबस्तधारी बंदोबस्त क्षेत्र के भीतर किसी अवैध खनन के लिए जिम्मेवार होंगे और पाई गई किसी शिफ्टिंग पर मनीस्टा से विचार किया जाएगा तथा बंदोबस्तधारी के विरुद्ध अपराधिक मामला दायर किया जाएगा।
- (x) बंदोबस्तधारी को खनन राजस्व/जीएस्कोटी/आयकर/स्टाम्प शुल्क/रजिस्ट्रेशन फीस का भुगतान नहीं करने की दशा में 30 दिनों के अंदर कारण स्पष्ट करने हेतु नोटिस दी जायेगी। निर्धारित अवधि के अंदर बंदोबस्तधारी द्वारा बकाए का भुगतान करने में असफल रहने की दशा में राशि बसूली की कार्यवाई के साथ-साथ बंदोबस्ती रद्द करने की भी कार्यवाई की जाएगी।
- (xi) नीलामी हेतु प्रस्तावित बालूघाटों से संबंधित तकनीकी तथा अन्य बिन्दुओं यथा भूमि के अवल, धान, मीठा, खाना, सेसरा, रकबा तथा GPS Co-ordinate के संबंध में विवाद/झुटि पाए जाने पर संशोधन का अधिकार संबंधित जिला खनन कार्यालय का होगा। बालूघाटों का सीमांकन एवं नियमानुसार निर्धारित आयाम/विशिष्टियों का सीमा स्तनका अधिष्ठापन GPS Co-ordinate के अनुसार बालू बंदोबस्तधारी को कराना होगा तथा खनन के क्रम में संधारित कराना बंदोबस्तधारी की जवाबदेही होगी जिसे ROP/अवलधिकारी की उपस्थिति में प्रमाणित करकर खनन कार्य कराना होगा। बालूघाटों के निर्धारित क्षेत्र का Reduced Level (RL)/Pre-Level (PL) एवं Satellite images मानसून के पूर्व एवं बाद का समर्थित करना होगा।
- (xii) बालू बंदोबस्तधारी को बालू लदे भारी वाहनों का परिवहन जल संसाधन विभाग द्वारा नहरों एवं बांध पर निर्मित प्रतिबंधित सड़क या परिवहन विभाग द्वारा प्रतिबंधित सड़क/पुल-पुलिया से नहीं करना है।
- (xiii) बालूघाट में रैपटी/बंदोबस्त जमीन होने पर संबंधित रैपट 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।
- (xiv) बंदोबस्तधारी द्वारा बालूघाटों से बालू का परिवहन बिहार खनिज (समानुदान, अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली 2019, (यथा संशोधित) के प्रावधानों एवं इस संबंध में अन्य अधिसूचित नियम के तहत किया जाएगा। अनियमितता की स्थिति में उपरोक्त नियमावली के तहत जुर्माना लगाया जाएगा।
- (xv) 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।
- (xvi) 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।



Sandhu
16/11/2022
खनिज विकास पदाधिकारी,
लखीसराय।

PLATES





LOCATION PLAN	PLATE No.1
BLOCK NO. 07 KIUL RIVER LAKHISARAI Mauza- Nagardar & Chanan (Bihar)	
SETTLEE:- Eklavya Stone And Mines Pvt. Ltd. Director - Nidhi Kumari and Kumari Priti	
PREPARED BY :- Er. Pravin Kr Sinha Reg. No. - RQP/BIH/SR.NO.20 LETTER NO.3825 DATED 07/11/2019	
SIGNATURE	<i>Nidhi Kumari</i> Eklavya Stone & Mines Pvt. Ltd.

Director

Director

Sharma 07

Block 07

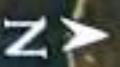
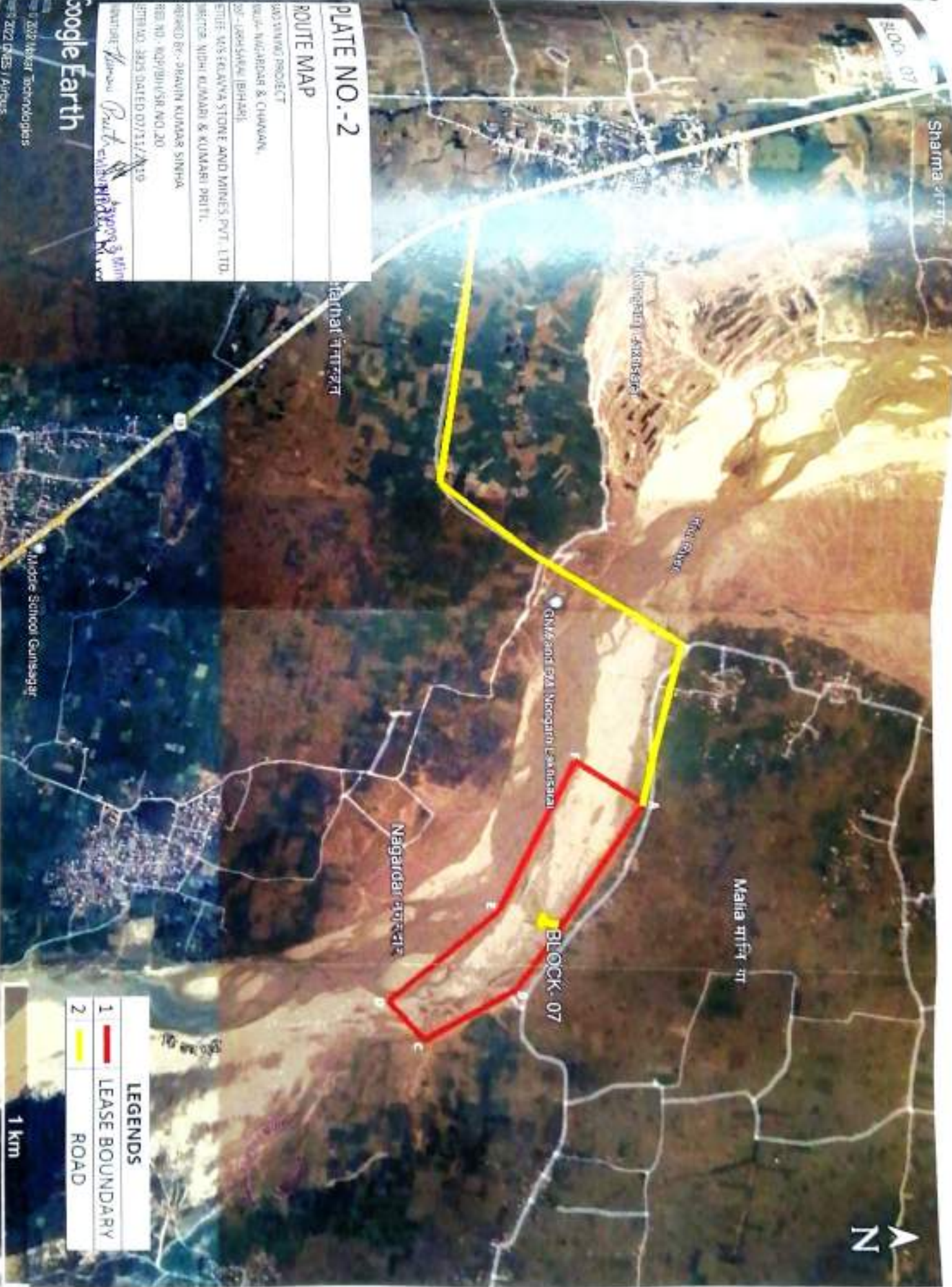


PLATE NO.-2

ROUTE MAP

SAVING PROJECT
GOLD, NAGARDA & CHANAN,
201 - JALSHALI (BHAR)
ENTER: M/S EKAVYA STONE AND MINES PVT. LTD.
DIRECTOR: NIDHI KUMARI & KUMARI PRITI.
APPROVED BY: BRAHMIN KUMAR SINHA
REG. NO. : MGP/BN/58/NO.20
SITE NO. : 2025 DATED 07/11/2019
Signature: *Sharma Priti* 11/11/2019

Google Earth
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2022 DMS / Africa



LEGENDS	
1	LEASE BOUNDARY
2	ROAD

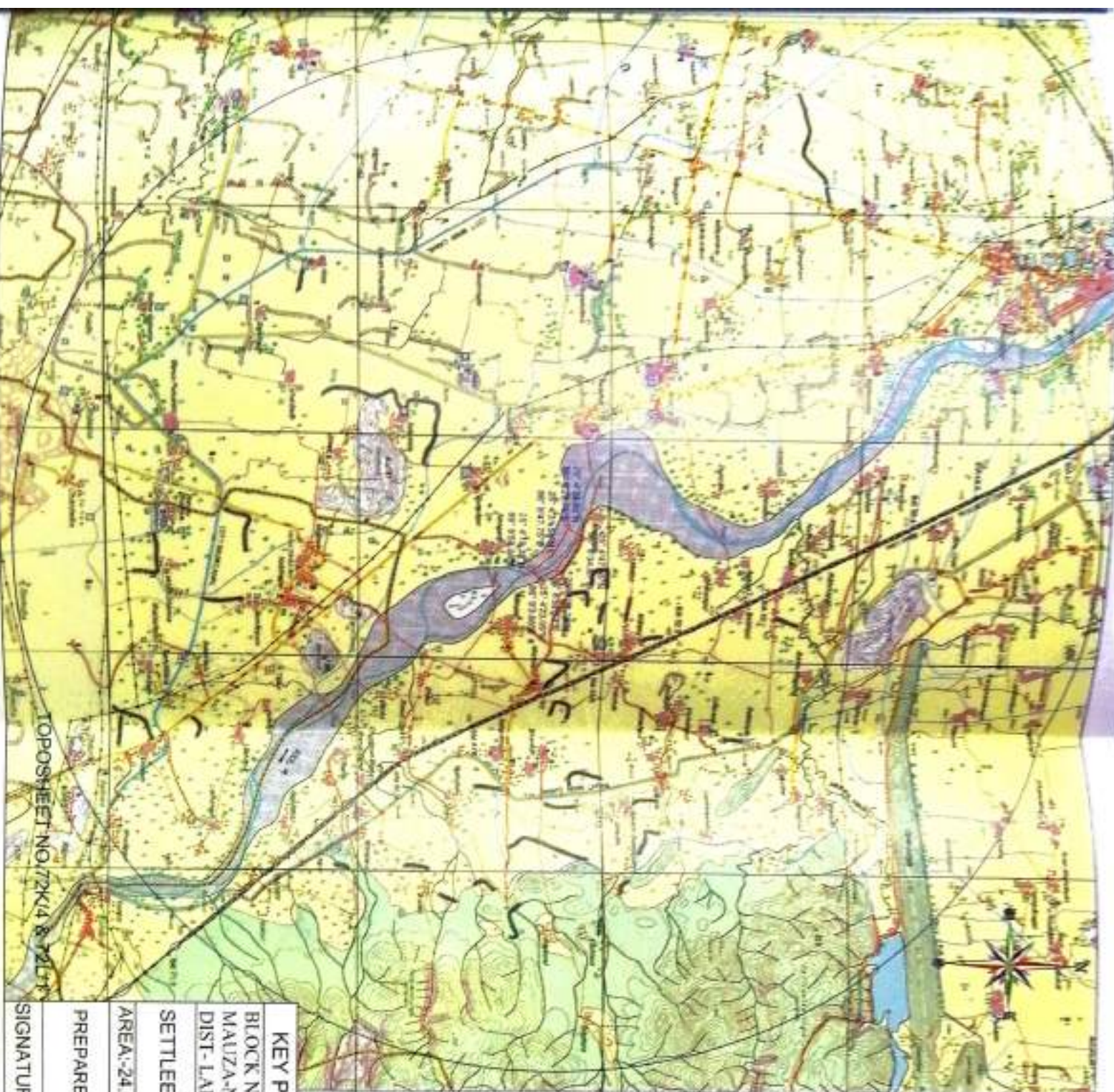
CONVENTIONAL SYMBOLS

- Waterways, rivers, canals, etc. (blue lines)
- Roads, railways, etc. (black lines)
- Boundaries, etc. (dashed lines)
- Contours, etc. (brown lines)
- Buildings, etc. (black outlines)
- Vegetation, etc. (green areas)
- Water bodies, etc. (blue areas)
- Topography, etc. (brown shading)
- Infrastructure, etc. (various symbols)
- Administrative, etc. (various symbols)
- Religious, etc. (various symbols)
- Education, etc. (various symbols)
- Health, etc. (various symbols)
- Industry, etc. (various symbols)
- Transport, etc. (various symbols)
- Communication, etc. (various symbols)
- Energy, etc. (various symbols)
- Environment, etc. (various symbols)
- Other, etc. (various symbols)

KEY PLAN

BLOCK NAME-KUL RIVER, BLOCK NO.-7
 MAUZA-NAGARDAR, CHANAN
 DIST-LAKHISARAI (BIHAR)
 EKLAVYA STONE AND MINES PVT. LTD.
 SETTLEE : DIRECTOR-NIDHI KUMARI W/O EKLAVYA KR.
 AND KUMARI NIDHI W/O AKHILESH KR.
 AREA:-24.60 HECT.

PREPARED BY :- REG. NO. ROP/BIHSR.NO.20
 LETTER NO.3825 DATED 07/11/2019
 SIGNATURE
 E. Pravin Kumar Sinha
 Eklavya Stone & Mines Pvt. Ltd.



TOPOSHEET NO.72K14 & 72L17



KULU RIVER



LEASE MAP

BLOCK NAME: KULU RIVER, BLOCK NO.-7
MAUZANAGARDAR, CHANAN
DIST- LAKHISARAI (BIHAR)

SETTLEE: EKLAVYA STONES AND MINES PVT. LTD.
DIRECTOR: NIDHI KUMARI W/O EKLAVYA KR.
AND KUMARI NIDHI W/O AKHILESH KR.

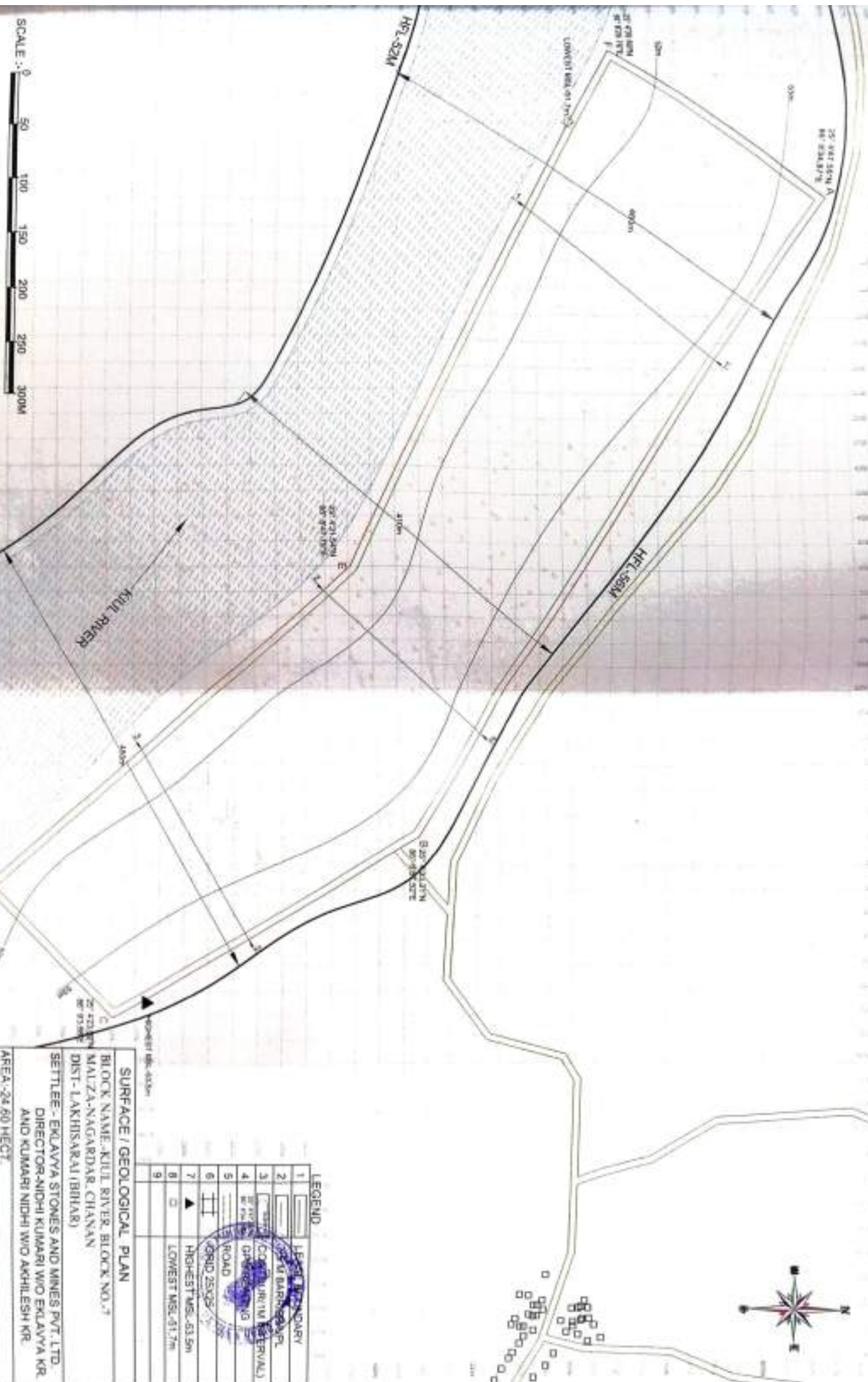
AREA- 24.60 HECT.

PREPARED BY: E. R. PRAVIN KUMAR SINHA
REGD. NO. RCP-BH/SR. NO. 20
LETTER NO. 3825 DATED 07/11/2019

SIGNATURE: *[Signature]* PLATE NO. 4 of 10
Kumar Praveen Kumar Sinha

LEGEND	
1	LEASE BOUNDARY
2	20' TIE LINE
3	BE PILE
4	ROAD
5	TEMPORARY BENCHMARK
6	RIVER BANK
7	GRID 100 X 100





LEGEND	
1	LEAST HAZARDOUS
2	LOW HAZARDOUS
3	MODERATE HAZARDOUS
4	HIGH HAZARDOUS
5	VERY HAZARDOUS
6	EXTREMELY HAZARDOUS
7	HIGHEST HAZ. 53.5M
8	LOWEST HAZ. 51.7M
9	

SURFACE / GEOLOGICAL PLAN

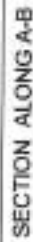
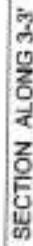
BLOCK NAME: KUL RIVER, BLOCK NO. 7
MALZA-NAGARDAR, CHANAN
DIST-LAKSHISARAI (BIHAR)

SETTLEE - EKLAHYA STONES AND MINES PVT. LTD.
DIRECTOR-ANISH KUMARI W/O EKLAHYA KR.
AND KUMARI NIDHI W/O AKHILESH KR.

AREA: 24.60 HECT.

PREPARED BY: : ER. PRAVIN KUMAR SINHA
REGD. NO. ROP/BIH/8R. NO. 20
LETTER NO. 3825 DATED 07/11/2019

SIGNATURE: *P. Sinha* **PLATE NO. 185 PVT. LTD.**
Pravin Kumar Sinha



GEOLOGICAL/PIT SECTION

BLOCK NAME-KIUL RIVER, BLOCK NO.-7
MAUZA-NAGARDAR, CHANAN
DIST- LAKHISARAI (BIHAR)

SETTLEE:- EKLAVYA STONES AND MINES PVT. LTD.
DIRECTOR-NIDHI KUMARI W/O EKLAVYA KR.
AND KUMARI NIDHI W/O AKHILESH KR.

AREA:-24.60 HECT.

PREPARED BY :- ER.PRAVIN KUMAR SINHA
REG. NO. RQP/BIH/SR. NO. 20
LETTER NO. 3825 DATED 07/11/2019

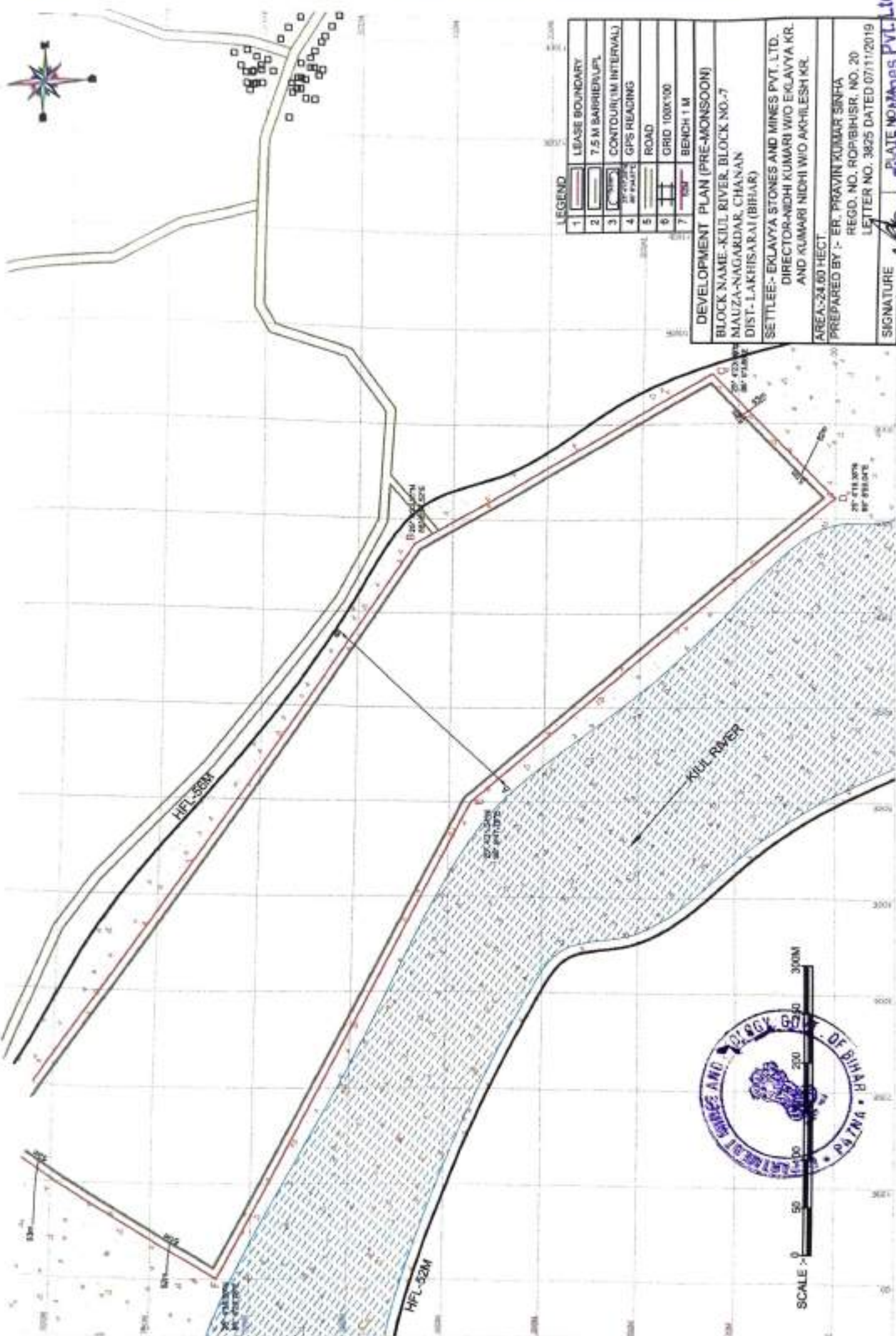
SIGNATURE

PLATE NO. 50-501, Ltd.

Ekavaya Stone & Mines Pvt. L
Kumari Prachi Nidhi Kumari



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)



LEGEND

1	LEASE BOUNDARY
2	7.5 M BARRIER
3	CONTOUR (1 M INTERVAL)
4	GPS HEADING
5	ROAD
6	GRID 1000/100
7	BENCH 1 M

DEVELOPMENT PLAN (PRE-MONSOON)

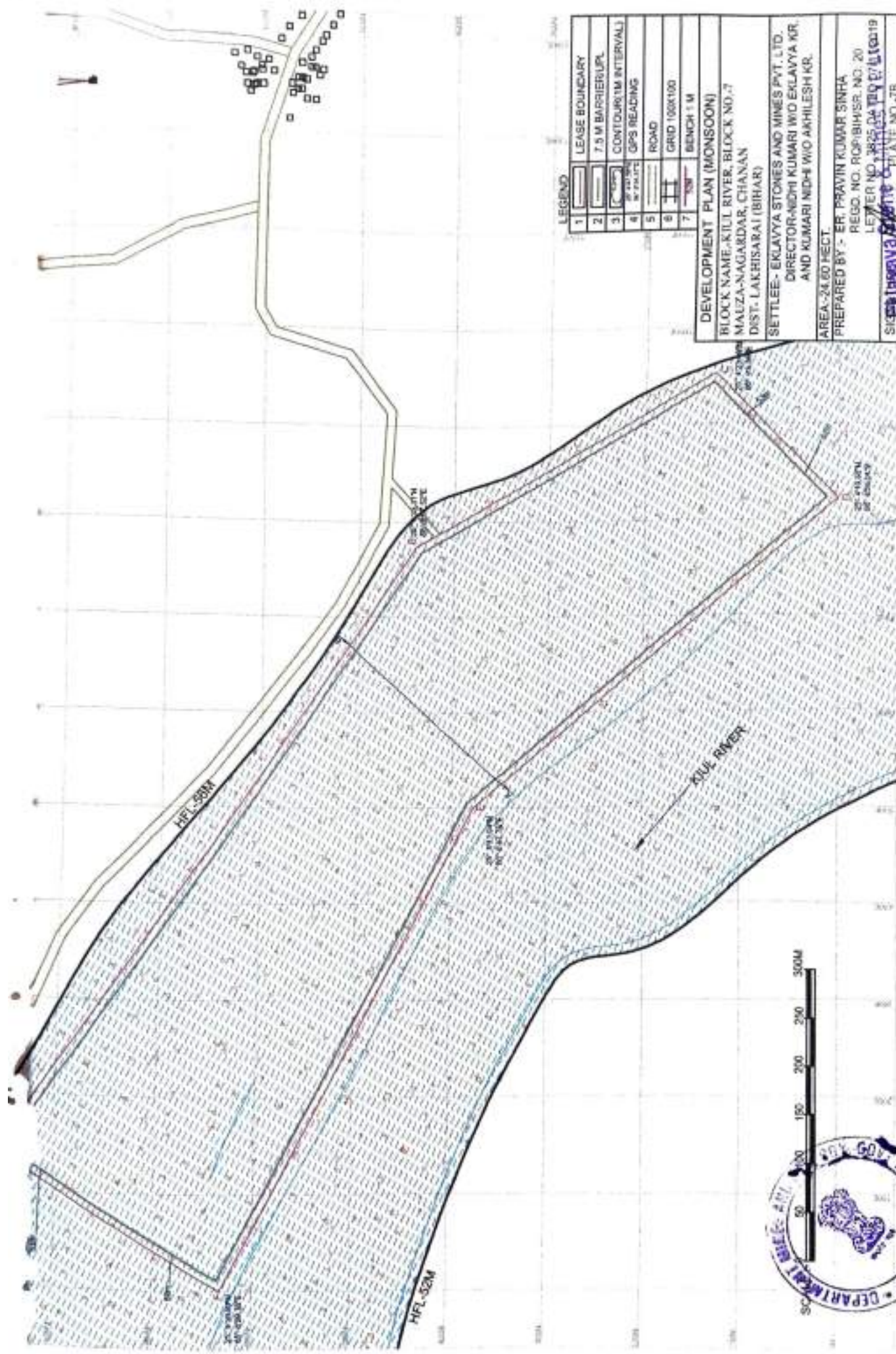
BLOCK NAME - KIUL RIVER, BLOCK NO. 7
 MAUZA - NAGARDAR, CHAMAN
 DIST - LAKHISARAI (BIHAR)

SETTLEE - EKLAVYA STONES AND MINES PVT. LTD.
 DIRECTOR - NIDHI KUMARI W/O EKLAVYA KR.
 AND KUMARI NIDHI W/O AKHILESH KR.

AREA - 24.63 HECT.

PREPARED BY :- ER. PRAVIN KUMAR SINHA
 REGO. NO. ROP/BIHAR, NO. 20
 LETTER NO. 3825 DATED 07/11/2019

SIGNATURE *Kumar Praveen* **Praveen Kumar Sinha** **Praveen Kumar Sinha Pvt. Ltd.**



LEGEND

1	LEASE BOUNDARY
2	7.5 M BARRIER
3	CONTOUR (M INTERVAL)
4	GPS READINGS
5	ROAD
6	GRID 100X100
7	BENCH 1 M

DEVELOPMENT PLAN (MONSOON)

BLOCK NAME-KUL RIVER, BLOCK NO.-7
 MAUZA-NAGARDAR, CHANAN
 DIST- LAKHISARAI (BIHAR)

SETTLEE- EKLAVYA STONES AND MINES PVT. LTD.
 DIRECTOR-NIDHI KUMARI W/O EKLAVYA KR.
 AND KUMARI NIDHI W/O AKHILESH KR.

AREA - 24.60 HECT.

PREPARED BY - ER. PRAVIN KUMAR SINHA

REGD. NO. ROP/BIH/SR. NO. 20

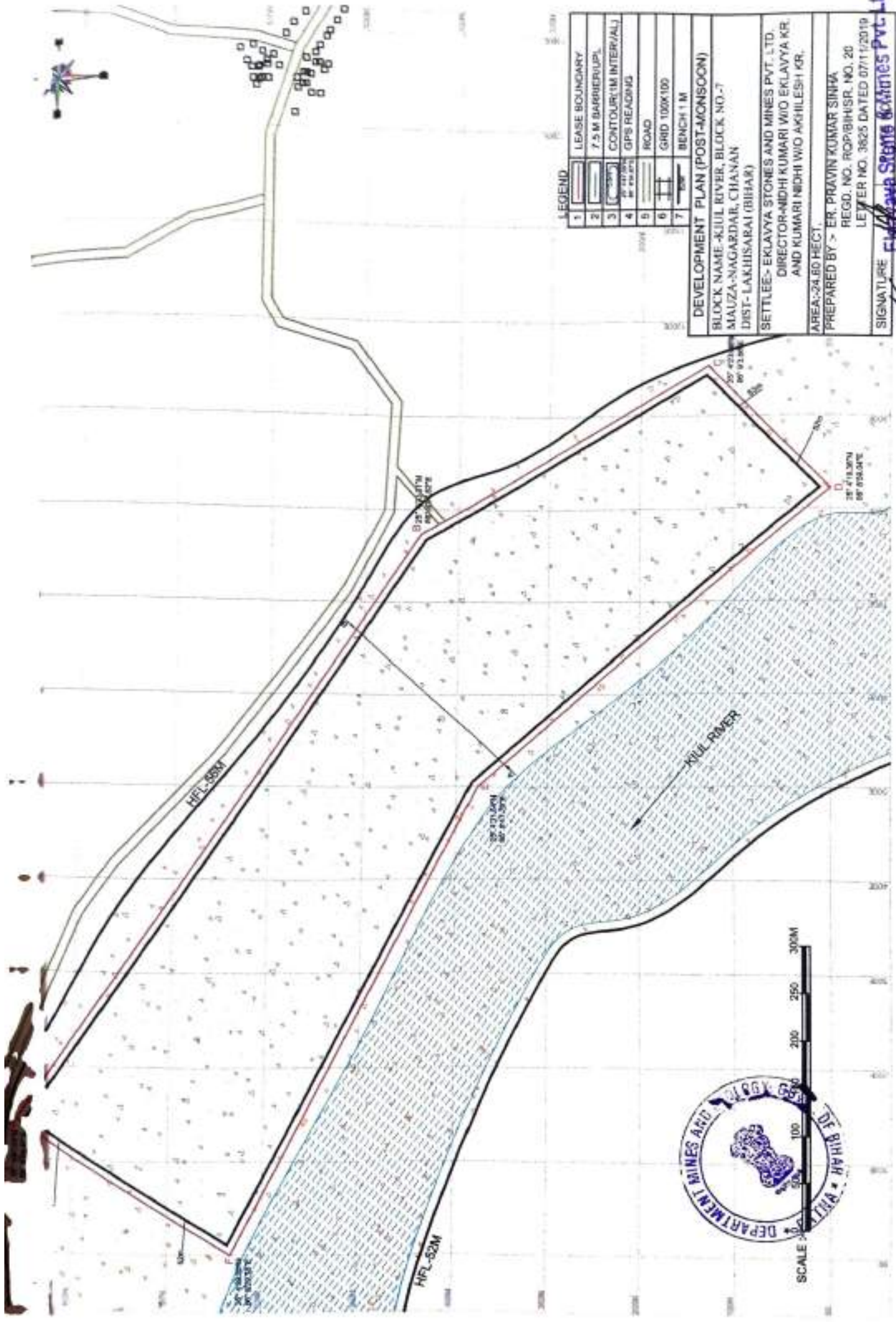
LETTER NO. 3825 DATED 07/11/2019

SHEET NO. 1 OF 1

Kumar Prate

Nidhi Kumari





LEGEND

1	LEASE BOUNDARY
2	7.5 M BARRIER
3	CONTOUR (1 M INTERVAL)
4	GPS READING
5	ROAD
6	GRID 100X100
7	BENCH 1 M

DEVELOPMENT PLAN (POST-MONSOON)

BLOCK NAME - KAILASH RIVER, BLOCK NO. - 7
 MALUA-NAGARDAR, CHANAN
 DIST- LAKHISARAI (BIHAR)

SETTLEE - EKLAVYA STONES AND MINES PVT. LTD.
 DIRECTOR - NIDHI KUMARI W/O EKLAVYA KR.
 AND KUMARI NIDHI W/O AKHILESH KR.

AREA - 24.60 HECT.

PREPARED BY - ER. PRAVIN KUMAR SINHA
 REGD. NO. RQP/BIHAR, NO. 20
 LEVYER NO. 3625 DATED 07/11/2019

SIGNATURE *Eklavya Stones & Mines Pvt. Ltd.*



SCALE 1:10000

0 100 200 250 300M

