

# जिला खनन कार्यालय, बक्सर

पत्रांक...../एम0, दिनांक.....।

सेवा में,

मेसर्स महल ईट उद्योग

प्रो0- मुकेश सिंह

ग्राम- कोरान सराय, पोस्ट-कोरान सराय,

थाना - कोरान सराय, जिला-बक्सर, बिहार

**विषय:- खनन योजना (Mining Plan) अनुमोदन के संबंध में।**

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि बक्सर जिलान्तर्गत, कोरान सराय, थानान्तर्गत मौजा/ग्राम-मटिला/बंकट, खाता नं0- 221. खेसरा नं0-6882. रकबा 2.02 हेक्टेयर में लघु खनिज साधारण मिट्टी के खनन हेतु प्रस्तुत खनन योजना का अनुमोदन संयुक्त सचिव, खान एवं भूतत्व विभाग, बिहार पटना के पत्रांक-4156/एम0 पटना दिनांक-27.12.16 के आलोक में निम्न शर्तों के साथ अनुमोदन किया जा रहा है।

1. खनन योजना का अनुमोदन 6544 घन मी0 प्रतिवर्ष में साधारण मिट्टी के उत्पादन हेतु अनुमान्य किया गया है।
2. साधारण मिट्टी खनन की गहराई सतह से 02 मी0 से अधिक नहीं होगा।
3. खनन कार्य ग्राउन्ड वाटर लेबल से कम से कम 02 मी0 उपर तक ही सीमित रखा जाएगा।
4. प्रस्तावित उत्खनन की गहराई के कम से कम आधे के बराबर चौड़ाई रखने वाले सटे मैदानों की सीमा से पटरी छोड़ दी जाएगी।
5. ईट निर्माण, पथ निर्माण, तटबंध निर्माण आदि के प्रयोजनार्थ ईट मिट्टी और साधारण मिट्टी के खनन/उत्खनन से संबंधित क्रियाकलाप में विस्फोटक का प्रयोग नहीं होगा।
6. खनन/उत्खनन संबंधी क्रिया-कलाप कार्य क्षेत्र के सामान्य जल निकासी के प्रतिरूप (पैटर्न) को परिवर्तित नहीं करेगा।
7. खोदे गए/उत्खनित गड्ढा (पिट) को परियोजना प्रस्तावक द्वारा उपयोगी प्रयोजन (प्रयोजनों) के लिए पुनः स्थापित किया जाएगा।
8. खोदे गए/उत्खनित गड्ढा के चारों ओर समुचित घेराबंदी कर दी जाएगी, ताकि किसी दुर्घटना से बचा जा सके।
9. ढुलाई के दौरान खोदी गई/उत्खनित मिट्टी के फैलने से धूल उत्सर्जन को रोकने के लिए उपाय किए जाएंगे।
10. मिट्टी के खनन/उत्खनन के कारण सृजित जल निकायों में रोगवाहकों (वेक्टर) के प्रजनन के



कारण स्वास्थ्य खतरों के विरुद्ध सुरक्षा मानक अपनाये जाएँगे।

11. कामगारों/मजदूरों को पेयजल और सफाई संबंधी सुविधाएँ प्रदान की जाएँगी।
12. किसी उत्खनन क्षेत्र की परिधि से किसी असैनिक संरचना की दूरी कम से कम 15 मीटर रखी जाएगी।
13. राष्ट्रीय पार्कों और वन्य प्राणी अभ्यारण्य की सीमा के 1 किलो मीटर के अन्दर उत्खनन के क्षेत्र के मामले में "ईट मिट्टी" अथवा साधारण मिट्टी के खनन/उत्खनन की अनुमति नहीं दी जाएगी।
14. खनन योजना में खनन कार्य बेंच बनाकर किया जाएगा जिसकी अधिकतम उँचाई 1.5 मी० एवं चौड़ाई कम से कम 3.0 मी० होनी चाहिए।
15. खनन कार्य के दौरान निकाले गये टॉप स्वायल को व्यस्थित रूप से एकत्रित कर रखा जाएगा, जिसे खनन कार्य समाप्त होने के उपरान्त उसी क्षेत्र में फैला दिया जाएगा।
16. खनन योजना में वर्णित भूमि के स्वामिस्व तथा भूस्वामियों की सहमती से संबंधित अभिलेखों की पुष्टि करा लिया जाना अपेक्षित होगा।
17. भविष्य में किसी प्रकार की कोई भी गलती खनन योजना अथवा कार्य में पाई जाएगी तो खनन योजना स्वतः निरस्त माना जाएगा।

विश्वासभाजन

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खनिज विकास पदाधिकारी  
जिला खनन कार्यालय  
बक्सर

ज्ञापांक.....517/एम० दिनांक.....20/07/25

प्रतिलिपि:— R.Q.P. प्रवीण कुमार सिन्हा मंगल मार्केट राजा बाजार को सूचनार्थ प्रेषित।



20/07/25

खनिज विकास पदाधिकारी  
जिला खनन कार्यालय  
बक्सर।

# MINING PLAN

&

## PROGRESSIVE MINE CLOSURE PLAN

**SUBMITTED UNDER SECTION 5 OF MM(R&D) ACT, 1957; AND RULE 17  
BIHAR MINEAL (CONCESSION, PREVENTION OF ILLEGAL MINING,  
TRANSPORTATION & STORAGE) RULES, 2019.**

*For*

## MATHILA SOIL BRICK MINE

VILLAGE – BANKAT, MAUZA-MATHILA, P.O - MUNGAON,  
P.S –KORAN SARAI, ANCHAL- DUMRAON,  
DISTRICT – BUXAR (BIHAR).

**AREA: 5.0 ACRES or, 2.02 HECTARES**

**FOREST LAND: NIL, WASTE LAND: 2.02 HECTARE**

**PLAN PERIOD: Five Years**

**CATEGORY-B2**



**Applicant:**

**Mukesh Singh**  
S/o-Veer Bahadur Singh  
Village+ P.O- Koran Sarai  
P.S- Koran Sarai, District- Buxar (Bihar)



**Prepared By:**

**ER. PRAVIN KR SINHA**  
RQP/BIH/SR.NO./20

Mo. No:- +91-7542949027, +91-9889024004  
E-Mail :- indusminingbihar@gmail.com

खनिज विकास पदाधिकारी  
बक्सर

20/07/24

# **M/S MAHAL INT UDYOG**

**Village-Bankat/Mathila, P.O-Mungaon, P.S-Koran Sarai, District-Buxar (Bihar)**

**Prop.: - Mukesh Singh**

**Mobile No.:- +91- 98011112789**

**Ref.**

**Date.:-**

## **AUTHORISATION LETTER BY THE APPLICANT/ LESSEE**

I, Mukesh Singh hereby authorise **Er. Pravinkumar Sinha**, RQP No. **RQP/BIH/SR.NO.20** to prepare the Mining plan submitted under Ministry of Environment, Forest & Climate Change Notification (MOEF&CC) dated 15th January, 2016, in respect of M/s Mahal Int Udyog at Khata no.- 221, Khasra No.- 6882. over an area of 2.02 Hectare for mineral(s) for Soil Brick in Village-Bankat/Mathila, P.O- Mungaon, P.S- Koran Sarai, District- Buxar (Bihar)

I request The Director, Directorate of Mining & Geology, 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

**Registration No.:** RQP/BIH/SR.NO.20

### **Address of RQP**

: 201,Mangal Market

Raja Bazar, Patna,Bihar

**Phone No** : 9889024004 & 7542949027

**Email** : [Pravinsinha01@yahoo.com](mailto:Pravinsinha01@yahoo.com)

**Place :**

**Date :**

**Lessee,**

**Mukesh Singh**



# Certificate

1. Certified that the provisions of mines Act, Rules and Regulations made there under have been observed in Bankat/Mathila Soil Brick Mining Plan, Village-Bankat/Mathila, P.O- Mungaon, P.S- Koran Sarai, District- Buxar (Bihar) and wherever specific permissions are required, the lessee will approach concerned authorities for granting permission.
2. The information furnished in Bankat Soil Brick Mining Plan is true and correct to the best of my knowledge.

(Pravin Kumar Sinha)

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

Place: -

Date:-



# MINING PLAN

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मुख्य सिंह

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**TITLE**

Mining plan for Bankat Soil Brick (Brick making by Chimney Bhatta) mine measuring over an area of 2.02 Hectares or 5.0 Acres situated in Village- Bankat, Mauza-Mathila, P.O- Mungaon, P.S- Koran Sarai, District- Buxar (Bihar) of Mukesh Singh.

**INTRODUCTION**

The project proponent applied for proposed area for area of 5.0 Acres or 2.02 hectare (Khata no- 221. Khasra No.- 6882.) was NOC for land owner to Mukesh Singh., S/oVeer Bahadur Singh, Village- Bankat, Mauza-Mathila, P.O- Mungaon, P.S- Koran Sarai, District- Buxar (Bihar) for M/s Mahal Int Udyog situated in Village- Bankat, P.O- Mungaon, P.S- Koran Sarai, District- Buxar (Bihar)

**JUSTIFICATION OF THE PROJECT**

Brick earth 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. Though brick earth 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.



मुकेश सिंह

**1.0 GENERAL INFORMATION ABOUT PROJECT PROPONENT :-**

**A) NAME AND ADDRESS OF PROJECT PROPONENT:**

Mukesh Singh  
S/o – Veer Bahadur Singh  
Village+P.O- Koran Sarai,  
P.S- Koran Sarai, District- Buxar (Bihar)  
Pin Code- 802126  
Mobile No:- 9801111279, 9576126001  
E mail: mukesh87mahal@gmail.com

**B) STATUS OF PROJECT PROPONENT:**

The Project Proponent is private individual involved in manufacturing the bricks.

**C) MINERAL, OCCURRING IN THE AREA & WHICH THE PROJECT PROPONENT INTENDS TO MINE:**

The project proponent has applied for mining the bricks clay to manufacture kuccha Bricks to be used further in brick kiln.

**D) PERIOD FOR WHICH THE MINING AREA:**

The mining NOC for land owner is for a period of 05 years.

**E) Name of R.Q.P. preparing the mining plans:**

ER. PRAVIN KR SINHA  
RQP/BIH/SR.NO./20  
Mo. No:- +91-7542949027, +91-9889024004  
E-Mail :- indusminingbihar@gmail.com

The copy of RQP certificate is enclosed (Annexure No.3)



मुकुंद सिंह

**2.0 DETAILS OF PROPOSED AREA :-**

The project proponent applied for proposed area for 5.0 Acres or 2.02 Hectare.

**2.1 NAME OF MINERAL**

The project proponent intends to Mine Brick Earth from the proposed area.

**2.2 DETAILS OF THE PERMIT -**

Village : Bankat, Mauza- Mathila

P.O. : Mungaon

P.S : Koran Sarai

District : Buxar

State : Bihar.

**TABLE -1**

|                                           | Khata No. | Khasra No. | Area (Acre) | Latitude      | Longitude     |
|-------------------------------------------|-----------|------------|-------------|---------------|---------------|
| Location & Revenue Details of Mining Site | 221       | 6882       | 5.0         | 25°28'45.99"N | 84°10'34.95"E |
|                                           |           |            |             | 25°28'45.41"N | 84°10'40.23"E |
|                                           |           |            |             | 25°28'37.30"N | 84°10'38.97"E |
|                                           |           |            |             | 25°28'37.71"N | 84°10'33.88"E |
| BRICK KILN SITE                           |           |            |             | 25°28'51.46"N | 84°10'33.43"E |



प्रवेशाज्ञा

**3.0 LOCATION AND ACCESSIBILITY****Details of area ( with location map):**

The Applied area is at a distance of 17.98 km from Mathila road in North-West direction. National Highway is at a distance of 0.41 Km in East direction from the project site. SH road is at 0.33 km in North direction. Ganga Ghat Nala is 23.39 km North-West direction.

The location plan is enclosed as **Plate No. 1**. The Route Map showing distance between the Mining Site to the Brick Kiln Site is attached as **Plate No. 6**

**District and State:**

Buxar, Bihar

**Village:**

Bankat

**Khasra No.**

6882

**Applied Area (Hect.):**

2.02 Hectares.

**Whether the area is recorded to be in forest (please specify whether protected, reserved etc.) Ownership/Occupancy:**

The applied area is free from forest land. The land is owned by private land owners & land owners have given their consent for the exploitation of soil from their respective land. Copy of NOC from land owners is enclosed as **Annexure No. 1**

**Existence of public road / railway line, if any nearby and approximate distance:**

Dumraon Railway Station is at a distance of 10.63 km in North-West direction.

Patna Airport at 92.89 km in East direction.

**Latitude and Longitude:**

The GPS reading of all corner pillars is in **Table No.1**



मुनेश सिंह

**4.0 GEOLOGY AND EXPLORATION:**

- a. Briefly describe the topography & general geology & local mine geology of the mineral deposit including draining pattern.

**PHYSIOGRAPHY:**

The proposed area is almost flat terrain, No perennial nala has observed in the area. The altitude of the area is 94 mRL. Earth is exposed in the area applied for proposed project. No other rock is exposed. No habitation located in the proposed area. The topography of lease area is shown in Plate No. 3.

**GEOLOGY OF THE AREA:**

These soils have been developed by the Indo gangetic alluvium laid down by Thora River. The colour of these soils is pale yellow to yellowish brown. The soils are dark grayish brown to dark brown. The surface texture may vary from sandy loam to loam, clay loam and even to clay. The alluviation of finer particles ensures fine texture of the middle horizons. Soils are neutral to alkaline in soil reaction. Salinity hazards are visible at some places in Buxar district. Carbonates are found in increasing order with depth.

**LOCAL GEOLOGY OF THE AREA:**

|        |             |
|--------|-------------|
| Recent | Brick Earth |
|--------|-------------|

**LITHOLOGY OF THE AREA:**

No rock unit is exposed in the area applied for proposed project.

**STRUCTURE OF THE AREA:**

Not applicable in absence of rock unit.

**NATURE OF MINERALISATION OF THE AREA:**

Not applicable in absence of rock unit.

**EFFECT OF WEATHERING OF THE AREA:**

Not applicable in absence of rock unit.

**NATURE OF WALL ROCKS OF THE AREA:**

Not applicable in absence of rock unit.

**PHYSICAL CHARACTERISTICS OF THE AREA:**

The brick earth is light brownish. The brick earth is suitable for making the bricks.



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**DETAILS OF EXPLORATION:****a) Already carried out in the area:**

No pit is observed in the area.

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

Brick earth is available on the surface, thus prospecting is not needed.

**METHOD OF ESTIMATION OF RESERVE:**

The reserves are calculated by the following formula

Volume of earth = excavable area \* depth of Mine

Brick earth in tonnes = Volume of Brick earth \* bulk density.

\* The bulk density of the brick earth is 1.3 tonne per cum.

Probable category reserves= Total around 2.02 hectares area

**Geological Reserve:**

Volume of brick earth =  $2.02 \times 10000 \times 1.8$

= 36360 cum

**Mineable Reserve:**

Consider 10% of area for Berm, hence Volume of Brick Earth will be:

Mineable Volume of brick earth =  $36360 \times 0.9$

= 32724 cum

Total mineable volume will be utilized in 5 years, Hence

Volume of Brick earth per year =  $32724/5$

= 6544 cum

Brick earth in tonne = Volume of Brick earth \* bulk density

=  $6544 \times 1.3$

= 8507 tonne

**Total volume of brick earth per year = 6544 cum or 8507 tonne**

**Top soil Reserve:**

Volume of top soil =  $2.02 \times 10000 \times 0.2$

= 4040 cum

**CALCULATION OF RESERVES :**

| Particulars                                         |       | Units   |
|-----------------------------------------------------|-------|---------|
| Total Area available for mining (As per agreement ) | 2.02  | Hectare |
| Thickness of Top Soil Reserve                       | 0.2   | M       |
| Average Thickness considered Reserve                | 1.80  | M       |
| Total Geological Reserve                            | 36360 | Cum     |
| Total Mineable Reserve                              | 32724 | Cum     |
| Maximum production per annum                        | 6544  | Cum     |



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**5.0 MINING:**

- a) Briefly describe the existing/proposed method for developing/working the deposit with all design parameters:

**Existing Method of mining:**

It is opencast manual mine without adoption of drilling & blasting. Mining is been carried out with conventional had tools. The soil is excavated manually with the help of spade, chisel, hammer etc. The soil is loaded manually in to tractor trolley & transported to chimney for making bricks.

- b) **Proposed method of mining:**

Mining shall be carried out manually with conventional hand tools. The soil shall be excavated manually up to depth of 1.8 m from surface and loaded manually in to tractor trolley and transported to chimney for making bricks.

- c) Indicate quantum of development & tonnage & grade of production expected pit wide as in table below:

| Year         | Overburden (cum) | ROM Soil (tonne) | ROM Soil (cum) | Sub grade Soil | Soil to overburden ratio |
|--------------|------------------|------------------|----------------|----------------|--------------------------|
| First Year   | Nil              | 8507             | 6544           | Nil            | Nil                      |
| Second Year  | Nil              | 8507             | 6544           | Nil            | Nil                      |
| Third Year   | Nil              | 8507             | 6544           | Nil            | Nil                      |
| Fourth Year  | Nil              | 8507             | 6544           | Nil            | Nil                      |
| Fifth Year   | Nil              | 8507             | 6544           | Nil            | Nil                      |
| <b>Total</b> |                  | <b>42535</b>     | <b>32720</b>   |                |                          |

**(D) Restriction**

The lessee will work in the area keeping in view regulation 111, 106 of MMR 1961.

**E) Others**

1. The approach road will be smooth and wide.
2. Plantation will be done in near and around the proposed area during monsoon. Tree guard sand separate watering arrangements will be provided.
3. Personal protective equipment's like safety helmet, safety shoes, safety goggles, dust respirators will be provided to the laborers as per work requirement.
4. Drains with parapet walls will be provided around the pit to check the entry of flowing monsoon water in the pit.
5. Fencing will be done around the excavation to check the inadvertent entry of human and live stock is the mining zone.

मुकुंद सिंह

**F) Developments proposed for the period of the project:****I<sup>st</sup> Year:**

The mining faces will open from top to down towards & faces shall be advance towards west to east direction. From the MLA 8507 TPA or 6544 cum earth clay will be excavated from the area for achieving a production of 25,00,000 bricks.

**II<sup>nd</sup> Year:**

The mining faces will open from top to down towards & faces shall be advance towards west to east direction. From the MLA 8507 TPA or 6544 cum earth clay will be excavated from the area for achieving a production of 25,00,000 bricks.

**III<sup>rd</sup> Year:**

The mining faces will open from top to down towards & faces shall be advance towards west to east direction. From the MLA 8507 TPA or 6544 cum earth clay will be excavated from the area for achieving a production of 25,00,000 bricks.

**IV<sup>th</sup> Year:**

The mining faces will open from top to down towards & faces shall be advance towards west to east direction. From the MLA 8507 TPA or 6544 cum earth clay will be excavated from the area for achieving a production of 25,00,000 bricks.

**V<sup>th</sup> Year:**

The mining faces will open from top to down towards & faces shall be advance towards west to east direction. From the MLA 8507 TPA or 6544 cum earth clay will be excavated from the area for achieving a production of 25,00,000 bricks.

| Year         | Total Brick Earth in Tonnes<br>per year | Total Brick Earth in cum per<br>year |
|--------------|-----------------------------------------|--------------------------------------|
| First Year   | 8507                                    | 6544                                 |
| Second Year  | 8507                                    | 6544                                 |
| Third Year   | 8507                                    | 6544                                 |
| Fourth Year  | 8507                                    | 6544                                 |
| Fifth Year   | 8507                                    | 6544                                 |
| <b>Total</b> | <b>42535</b>                            | <b>32720</b>                         |



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In case Brick Earth is fully exploited in the area and further no more Brick Earth is available, applicant will separately apply for other land and Mine Plan will be prepared accordingly.

### G) Method of Mining

The mining i.e. excavation of Brick Earth is by manual method of opencast mining. The approach road from surface to bottom will be provided with 1 in 16 gradients. The length and depth of the road will depend on the depth of excavation. The excavation of Brick Earth will be by simple hand tools. Around 34 tonnes or 26 cum of Brick Earth has to be excavated and loaded per day considering 250 days of effective working after deduction of monsoon period and other holidays. For transportation of casted bricks from proposed site to kiln, Three Tractor will be utilized.

#### a) Preparation of kuchcha Bricks

**Pasar:** The place where Brick Earth is mixed with water for moulding.

**Mould:** Wooden/Iron mould of average 10" x 5" x 3" Size is used for making the kuchcha brick Prepared clay will be poured in the mould and pressed manually, than mould will be removed leaving kuchcha brick.

**Sun Drying:** The kuchcha brick will be allowed for sun drying. This is an important step for making the adobe (kuchcha brick). The final moisture content of the adobe brick remains around 10% to 15%.

**Transportation:** The kuchcha bricks transported from drying place to brick kiln chamber by one wheel hand operated cart. This cart transports around 30 to 40 bricks at a time.

#### Site Specification :-

- i. **Site Office:** The site office with all requisite facilities is available at site.
- ii. **Water Huts:** Water huts are available at requisite sites.
- iii. **Latrine & Bathrooms:** This facility is mobile and available at site.
- iv. **Staff Quarters:** Available at site.
- v. **Rest Shelters:** The rest shelter for laborers is available just nearby the site.
- a. **Other:** Temporary site services will be provided as advised by the officials time to time.
- h) **Employment Potential:** Almost 30 unskilled labors will be deployed in brick clay mining.
- i) **Site Service:** The workings will be for 5 years. The following site service is available at site:
  1. Temporary toilet will remain available at site.
  2. Migrants are not allowed as local resident will be employed.



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**j) Conceptual Mining Plan**

Conceptual mining plan is necessary to know the ultimate limit if the pit crust when whole reserves will be exhausted. The ultimate pit limit is limit of pit surface at the end of mining. It is also necessary to select the sites for waste dump, site service, plantation etc. in such a place that these sites should not get any disturbance during the life of the mine. Considering the aforesaid aspects the conceptual mining plan is proposed as follows:

**a) Ultimate Extent & size of the pits**

Considering depth of the pits will be 1.8 mts.

**b) The Final Slope Angle Adopted**

Considering final slope angle will be 45°.

**c) Ultimate Capacity of Dumps**

The dumps are not required as whole earth is useable.

**d) Stabilization of Dumps**

There will be no waste generate in brick earth mining. The excavated brick earth will be used for manufacture of kuchcha bricks.

**H) RECLAMATION PLAN**

Describe briefly the year wise reclamation plan, giving the proposed Plantation programme, scope of backfilling worked out pits. As stated earlier that about 4040 cum top soil will be generated yearly. This top soil will be kept safely on the berm of mining site. After removal of all the proposed quantity of brick earth, the top soil will be spread over the mined out pit so that the fields can be used for agricultural activity.

**I) Extent of Mechanization:**

The operation will be done by Manual /semi mechanized method

Following table gives the list of equipment to be used:

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

| Name of machinery | Capacity           | Fuel Consumption | No. of Machinery |
|-------------------|--------------------|------------------|------------------|
| Tractor           | 4 tonnes           | 2 Ltr/hr         | 03               |
| Water Tanker      | 4000 liter         | 4 Ltr/hr         | 01               |
| Other vehicles    | As per requirement | 4 Ltr/hr         | 01               |

**QUANTITY OF HSD/ FUEL CONSUMPTION PER DAY**

| S. No | Machine                      | Details of fuel (Diesel) requirements                                                                               | Consumption of Diesel (in lits/ day.) |
|-------|------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 2     | Tractors                     | Number of Tractors =3<br><br>Diesel consumption by three tractors (i.e-2 ltr/hr.)<br><br>Tractor=3*2*10=60          | 60 liters                             |
| 3     | Water Tanker/Water Sprinkler | Number of Sprinkler= 1<br>Diesel consumption by Sprinkler in one shift working (i.e-4ltr/hr).<br>=1*4*10=40 liters. | 40 liters                             |
| 4     | Extra                        | Transport vehicle, super vision vehicle, maintenance vehicle                                                        | 30 liters                             |
|       |                              |                                                                                                                     | <b>Total=130</b>                      |



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**5.0 BLASTING:**

Mining shall be carried out manually with conventional hand tools without adoption of trailing & blasting. No blasting is required for excavation of soil.



**6.0 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 1.8 m. Hence no water is likely to be encountered. So there is no need of any such arrangements.



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**7.0 STACKING OF MINERAL REJECTS AND DISPOSAL OF WASTE:**

- a) **Indicate briefly the nature and quantity of top soil, overburden/waste and mineral rejects likely to be generated during the next five years:**

8507 Tonne or 6544 cum of soil shall be generated in each year and shall be used for making bricks.

- b) **Land chosen for disposal of waste with proposed justification.**

The soil to be generated shall be transported to chimney for making bricks. Therefore no proposal has been envisaged during plan period.

- c) **Attach a note indicating the manner of disposal, and configuration, sequence of buildup of dumps along with the proposals for the stacking of sub-grade ore, to be indicated item wise.**

All quantities of soil to be generated shall be used for making bricks.



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**8.0 USE OF MINERAL:**

The soil of lease area is used for making bricks which is used in building material, highways, roads, townships, multiplexes, foundations of buildings and industrial units etc.



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**9.0 OTHER:**

**a) Site Services**

The following site services will be provided:

- i) Office
- ii) Drinking water shed
- iii) Rest shelter
- iv) First aid Centre
- v) Store
- vi) Periodically Medical Checkup

**b) Employment Potential**

- i) A kiln manager is required
- ii) Total 30 laborers required.



**10.0 MINERAL PROCESSING:**

- a) If processing / beneficiation of the ore or minerals mined is planned to be conducted on site or adjacent to the extraction area, briefly describe the nature of the processing/ beneficiation. This should indicate size and grade of feed material and concentrate (finished marketable product).

The entire lease area consists of soil. During plan period 8507 Tonne or 6544 cum of soil shall be generated and all quantities shall be transported to chimney for making bricks. Project Proponent is already installed chimney.

- b) Explain the disposal method for tailing or waste from the processing plant (quantity and quality of tailings proposed to be discharged, size and capacity of tailing pond, toxic effect of such tailing, if any, with process adopted to neutralise any such effect before their disposal and dealing of excess water from the tailing dam)

As stated above that no beneficiation is required therefore no tailing or waste disposal from processing plant will be undertaken.

- c) A flow sheet or schematic diagram of the processing procedure should be attached.

No beneficiation studies will be carried out therefore no flow sheet of processing process is attached.

- d) Specify quantity and type of chemicals to be used in the processing plant.

No chemicals will require.

- e) Specify quantity and type of chemicals to be stored on site / plant.

No chemical will be stored on the site / plant.

- f) Indicate quantity (cum per day) of water required for mining and processing and sources of supply or water. Disposal of water and extent of recycling.

No water is required for mining and processing hence no disposal of water and extent for recycling is required.



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**11. ENVIRONMENTAL MANAGEMENT PLAN:****(a) Attach a note on the status of base line information with regard to the following:****(I) Land Use:**

The existing land use of the area is almost hundred percent waste lands.

The existing land use is given in tabular form:

| Sr. No. | Land use                 | Agriculture land(ha) | Forest Land (ha) | Waste land (ha) | Grazing Land (ha) |
|---------|--------------------------|----------------------|------------------|-----------------|-------------------|
| 1       | Mining pits Quarry       | -                    | -                | 1.818           | -                 |
| 2       | Approach Road            | -                    | -                | -               | -                 |
| 3       | Water tank               | -                    | -                | -               | -                 |
| 4       | Human Settlement         | -                    | -                | -               | -                 |
| 5       | Chimney                  | -                    | -                | -               | -                 |
| 6       | Balance undisturbed land | -                    | -                | 0.202           | -                 |
|         | <b>Total</b>             | -                    | -                | 2.02            | -                 |

**(II) Water Regime:**

There is no perennial water body in the area. Water table loses its significance in this region due to depth. The depth of water table is about 15 m below general ground level. The shear zone which allows the flow of water in the sub surface is restricted, through when tapped in wells, hand pumps & tube wells provide sufficient water round the year.

**(iii) Flora and Fauna:**

Vegetation and wild life are quite scanty. Trees of Neem, Palas and Mango etc. are found only in and around the villages or in agriculture fields. Cows, horses, donkeys, goats, sheep and buffaloes are kept for house hold requirements. Wild life comprises of rabbits, Squirrels, foxes, snakes, and lizard. Fishes, turtle, and crabs form aquatic life which occur wit in a radius of 5 km. No wild life is found within the lease area and its surrounding.

**(iv) Quality of ambient air noise level and water:**

The proposed site is located in the remote area having a clean atmosphere. Therefore the quality of ambient air will be as good. SPM, SO<sub>2</sub>, NOX will be either below permissible limits or close to threshold limits.

Similarly ambient noise level is as low as of any standard place.

The permissible limit of SPM, SO<sub>2</sub>, & NOX and air quality was observed within the lease hold is given below:



| Parameter       | Promulgated limit            | Present within the lease hold |
|-----------------|------------------------------|-------------------------------|
| SPM             | 500 $\mu\text{g}/\text{m}^3$ | 220 $\mu\text{g}/\text{m}^3$  |
| SO <sub>2</sub> | 120 $\mu\text{g}/\text{m}^3$ | 30 $\mu\text{g}/\text{m}^3$   |
| NOX             | 120 $\mu\text{g}/\text{m}^3$ | 18 $\mu\text{g}/\text{m}^3$   |

The water quality will not be affected as mining is restricted to above ground level. Drinking water is being taken from the hand pumps, which is situated near the chimney site. Numbers of hand pumps are dug in the villages.

(v) **Climatic Conditions:**

a) **Temperature:** Tropical climate with hot summers, temperatures ranging between 32<sup>0</sup> C to even more than 45<sup>0</sup> C. The winters are cool, recording a drop in temperature from around 12 deg. C to as low as 5 deg C.

b) **Rainfall:** District Aurangabad receives annual rainfall is about 1204 mm. The maximum rainfall received during monsoon period was July to mid September. The maximum rainfall varies from 900mm. to 1200 mm. The lowest rainfall was received during the month of November-December.

c) **Humidity:** The maximum and minimum humidity in morning is 98 and 44 in the month of August and May and in the evening 96 and 25 in the month of August and May.

vi) **Human Settlement:**

The details of population, number of households, land, literacy etc. within a radius of 5 km from lease area. Human settlements are distributed in fringes of buffer zone. The inhabitants belong to all the four castes. The local inhabitants are bundles, who speak in Hindi & Bhojpuri and are farmers. The main occupation in 5 km. buffer zone is farming and mining. The agriculture alone does not appear to be sufficient to sustain the population. Poor literacy conditions prevail in the surrounding of applied area & condition of literacy is more pathetic in females. Older generation wear Dhoti- Kurta while younger generation is adopting dresses like pant, shirts etc.

**Occupation:**

Agricultural remains the main occupation in this area. Study reveals that within 5 Km. radius of lease each, 70% to 85% population is engaged in agriculture. Percentage of females engaged in agriculture and domestic work.

Disparity in agricultural land holding is less. But yield of agricultural produce is very poor to sustain the available hands. Consequently problem of unemployment and frustration amongst youth can be noticed in the area. The yield of crops is as below:

|          |   |                 |
|----------|---|-----------------|
| Rice     | : | 200 Kg Per Acre |
| Wheat    | : | 700 Kg per Acre |
| Gram     | : | 500 Kg per Acre |
| Arhar    | : | 400 Kg per Acre |
| Soyabean | : | 300 Kg per Acre |

**(vii) Public building, places of worship and monuments:**

None of the above important features are within the applied area or in close proximity of lease hold.

**(viii) Does area (partly or fully) falls under notified area under water (Prevention & control of Pollution) Act 1974:**

The lease hold has not been notified under water (Prevention & control of pollution) Act 1974.

**(b) Attach an Environmental impact Assessment statement describing the impact of mining and beneficiation on the following over the next five years.****(i) Land use:**

The area likely to be degraded due to quarrying, pitting & roads. The impact on the land form or Physiographic will be limited to the modification of the slope. The land scope and land use will undergo a radical change due to open cast mining. The impact during next five years is limited as mining pits will be formed a latter on mined out pits shall be backfilled/reclaimed, leveled it and put it use for agriculture. An effort shall be made to maintain maximum original topography of the lease area.

The impact on land use will also be limited. The various modifications due to mining allied & activities during next five years and end of conceptual period are given below:

| Activity                  | Area Occupied (ha.) During next five years/At the end of conceptual period |
|---------------------------|----------------------------------------------------------------------------|
| Mining and Existing pits  | 1.818                                                                      |
| Waste dumps               | 0                                                                          |
| Road                      | 0                                                                          |
| Infrastructure facilities | 0                                                                          |
| Afforestation             | 0                                                                          |
| Berm                      | 0.202                                                                      |
| <b>Total</b>              | <b>2.02</b>                                                                |

**(ii) Air Quality:**

It has already been explained that mining will be in a very small scale without drilling and blasting. One of the most crucial elements for air pollution is vehicular transport. Due limited movement tippers/tractor or trolleys air quality will not undergo any significant change.

However the only cause of concern in future will be SPM content. The daily average SPM will be less than 220 microgram per meter cube. Due to mining & movement of tippers one year, if safely believed that SPM content will seldom exceed 250 micrograms per meter cube. However, if required, water sprinkling on dry months may be undertaken on the haul road where the maximum traffic will be observed.

**(iii) Water Quality**

It has already been mentioned that water table does not have any relevance in this region. The water table in this area is found in the shear zone and is about 15 m. below the ground level. The working during next five years will be confined labor the water table hence no impact on water quality will be observed. The water quality indicates that water is potable.

**(vi) Noise Level:**

It has been explained earlier that proposed mining is of open cast manual with conventional hand tools. Tractor trolleys shall be deployed for transportation of soil from mining pit up to chimney, but its deployment will be limited. Therefore no effect on noise level shall be envisaged during plan period.

**(v) Vibration level :**

Mining shall be carried out manually with conventional hand tools. Therefore, no impact in vibration level is envisaged.

**(vi) Water Regime:**

The mining is in a small area. There is no perennial drainage within the area therefore no significant impact on surface water will be made. However due to excavation some changes in base flow may occur but then it has been proposed that mining will be done in already excavated areas so that it will not touch the water regime.

**(vii) Socio-Economics:**

Though employment potential is not very high but whatever employment will be generated will be available to surrounding. It has been mentioned that there is a serious problem of migration in this region for the need of livelihood, any attempt of generating employment will be important contribution to this area and should be welcomed. The activity will also provide indirect employment by way of shopkeepers, dhaabas and truck drivers etc.

**(viii) Historical Monuments etc.:**

No historical monuments exist surrounding the lease hold.

**(c) Attach an Environmental Management Plan supported by appropriate plans and sections dealing the time bound action proposed to be taken with sequence and timing in the following areas (or diagram should be added).**

**- Temporary storage and utilisation top soil:**

Soil to be generated shall be use for making bricks. Therefore no proposal has been given for its temporary storage.

**II. Year wise proposal for reclamation of land affected by abandoned quarries and allied mining activities during next five years period:**

The restoration and reclamation is not proposed in this mining plan as the brick earth will excavate from the proposed area and after excavating brick earth the excavated area may be used for agriculture or as water reservoir. The reclamation and restoration proposals will be provided if required.

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**Programme of forestation year wise for the initial five years indicating number of plants with name of species, afforested under different areas in Hectares.**

**Programme of forestation:**

**Mining Area:**

The lease area is marked by large exposure of barren land. Plantation will be undertaken with in outside the lease along Kachha rasta. The details of year wise plantation are as below:

| Year         | Area (ha)   | No. Samplings |
|--------------|-------------|---------------|
| First Year   | 0.01        | 5             |
| Second Year  | 0.01        | 5             |
| Third Year   | 0.01        | 5             |
| Fourth Year  | 0.01        | 5             |
| Fifth Year   | 0.01        | 5             |
| <b>Total</b> | <b>0.05</b> | <b>25</b>     |

The tree species recommended are Ficus religiosa (pipal), Azadirachta indica (Neem), Ficus glomerata (Gular), Dalbergia sisso (Shisham) and Syzygium cumini (Jamun) may also be recommended. Mangifera indica (Aam), Emblica officinalis (Anwala), Aegle marmelos (Ibei), Planting should be done in large sized 90 cm x 90 cm. due in advance and filled about 50 days before planting. The plantation raised earlier should be carefully maintained. Mortalities should be replaced by fresh planting.

**Post Plantation Care:**

Following precaution to be undertaken for survival of plants:

- The samplings will be undertaken for survival of plants.
- Plants will be taken care by applying fertilizers and proper wedding etc.
- Healthy tree species will be recommends for plantation.
- Fatal saplings will be replaced with new healthy saplings.
- Every sapling will be covered by tree guard to avoid damage through cattle grazing.
- A Gardner or mazdoor should be employed for care.
- Necessary arrangement will be provided for watering tree species planted at different parts.

**4. Stabilisation and vegetation of dumps along with inter burden dumps management year wise for initial five years:**

The entire lease area is soil cover an all quantities of soil to be generated shall be used for making bricks therefore there is no question arises for stabilization and vegetation of dumps.

**5. Measures to Control erosion/sedimentation of water courses:**

No drainage of water course will be disturbed due to mining. The lease area consists of soil cover and mined out pit shall be backfilled/reclaimed therefore there is no question arises for sedimentation of water courses.

**6. Treatment and disposal of water from mine:**

It has already been mentioned that water table does not have any relevance in region plateau due to its great depth therefore treatment and disposal will not be concern in the mine.

**7. Protective measures for ground vibration/air blast caused by blasting:**

As the proposed method of mining is open cast manual with limited amount of movement of tractor trolleys. The impact on this aspect is negligible.

**8. Measure for protecting historical Monuments and for rehabilitation of human settlement likely to be disturbed due to mining activity:**

No such feature exists within the lease area.

**10. Socioeconomic beneficiate out of mining:**

The scale of operation is limited with 90% local employment. Hence some benefit to the local community will occur on this aspect. Besides the direct employment, indirect employment will include tractor owners, truck drivers, shop keepers etc.



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**12. CONCLUSION:**

This mining area is small and in the waste fields. Mostly local peoples are employed in this activity. There will be minimum adverse affect of this activity on the drainage system.

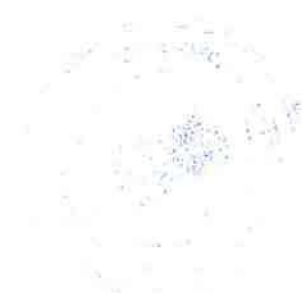
A brick is a block made of clay burnt in a kiln. It is one of the primary building materials known to mankind. Over time, bricks have appeared, gained prominence, lost importance and then come to the forefront again with various styles of architecture. Burnt bricks were used in ancient Indian civilizations. They are still being used as filler materials for framework structures as well as to construct load bearing structures.

Besides to generate a number of direct employments, indirect employment will also generated in this area by this activity. This is also a source to generate revenue to the Government.



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# PROGRESSIVE MINE CLOSURE PLAN





**PROGRESSIVE MINE CLOSURE PLAN****1. Introduction:****Applicant details**

**Name of Applicant**      **Mukesh Singh**  
                                          S/o -Veer Bahadur Singh  
**Address :-**                   Village+ P.O- Karan Sarai,  
                                          P.S-Koran sarai, District-Buxar  
                                          Bihar, Pin Code- 802126  
                                          Mobile No:- 9801111279, 9576126001

**(b) Status of Lessee:** Proprieter

**(c) Location:** The area is situated in Village- Bankat, Mauza-Mathila, P.O- Mungaon, P.S- Koran Sarai, District- Buxar (Bihar)

The site is shown in Plate No.1&2.

**d) Extent of Lease area:** 2.02 Ha.

**e) Type of lease area:** Non Forest land

**f) Present land use pattern:** Waste land.

**i) Present Method of mining:** No mining is being carried at present.

**and mineral processing****1.1 Reasons for Closure:**

The mineral Brick Earth will be excavated for use of making kachha bricks. After completion of excavation of mineral up to depth of 1.8 mts, the mine will be closed as per rules, regulations and orders. No premature closure is Anticipated.

**1.2 Statutory Obligations:**

As per rule 23 B of MCDR 1988 under Rules 17 & 18 of Bihar Minerals (Concession, Prevention of illegal Mining, Transportation and Storage) Rules, 2019, for every fresh grant of Mining lease a progressive mine closure Plan is required to be submitted in compliance of the aforesaid rule of MCDR 1988, the progressive mine closure plan is being in accordance with the Guidelines issued by CCOM vide circular no. 14/2003.



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### 1.3 Closure plan preparation:

#### a). Name and address of the Applicant:

**Mukesh Singh**

S/o – Veer Bahadur Singh

Village+ P.O- Karan Sarai,

P.S–Koran sarai, District-Buxar,

Bihar, Pin Code- 802126

Mobile No:- 9801111279, 9576126001

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

ER. PRAVIN KR SINHA

RQP/BIH/SR.NO./20

Mo. No:- +91-7542949027, +91-9889024004

E-Mail :- indusminingbihar@gmail.com

The copy of RQP certificate is enclosed (Annexure No.3)

#### c) Name of the executing agency:

The lessee himself shall execute the provisions of mine closure plan.

### 2.0 Mine Description:

#### 2.1 Geology:

**Physiography –** Refer Chapter 3a.1

**2.2 Regional Geology-** Refer Chapter 3a.2

**LOCAL GEOLOGY** Refer para 3a.

**EXPLORATION** Refer para 3b

**METHOD OF ESTIMATION OF RESERVES** Refer Chapter 4.1

**CLASSIFICATION OF RESERVES** Refer Chapter 4.2

**GEOLOGICAL RESERVES** Refer Chapter 4.3

**MINEABLE RESERVES** Refer Chapter 4.4

**2.3. Proposed Mining Method:** Refer Chapter 5a.1.



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

No activity was taken-up during last 5 years in connection with mining and allied activities. The activity proposed during the five year plan period is summarized as below:

| Sl No. | Activity                       | Particulars                                                                                          |
|--------|--------------------------------|------------------------------------------------------------------------------------------------------|
| 1      | Exploration & Mine Development | At present there is no mining. About 6544 cum/year will be exploited to get the required production. |
| 2      | Disposal of Solid Waste        | All the quantity of mineral is used in brick making. There is no solid waste due to mining.          |
| 3      | Reclamation & rehabilitation   | Reclamation/Rehabilitation is proposed.                                                              |
| 4      | Control of Dust                | Activity is limited. Does not required.                                                              |
| 5      | Noise & Ground Vibration       | Activity is limited. Does not required.                                                              |
| 6      | Afforestation                  | No afforestation proposed                                                                            |

### 4.0 Closure Plan:

#### 4.1. Mined out land:

No proposal can be given for concurrent back-filling. Top soil is proposed to be spread over mined out benches.

#### 4.2. Water Quality Management:

Activity is limited. Any change in water quality does not anticipated.

#### 4.3 Air Quality Management:

Activity is limited. Any change in air quality does not anticipated. If required water sprinkling will be done regularly on haul roads.

#### 4.4 Waste Management:

No waste is anticipated.



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**4.5 Top Soil Management:**

Top soil will be scraped out carefully and stacked carefully on the berms or earmarked area. The top soil will be spread over the mined out area.

**4.6 Tailing Dam Management:**

No processing of mineral is proposed. Hence, no tailing dam is proposed.

**4.7. Infrastructure:**

The proposed area is well connected with Anchal and district head quarter by all – weather roads where all facilities are available. However, the Proponent will have his own facility soon after start of excavation.

**4.8 Disposal of Mining Machinery:**

No specific mining machinery is used in the excavation of brick earth. It will be a manual mine.

**4.9. Safety and Security:**

Presently agreement has been made for 5 years period. Mining of brick earth is proposed to be confined in a small area up to a depth of 1.8 m. max.

**4.10. Disaster Management and Risk Assessment:**

The proposed area is small. Activity is limited up to a 1.8 m depth below Ground level. The proposed site falls in **Seismic zone – III**.

**4.11 Care and Maintenance during Temporary Discontinuance:**

Applicant will comply all necessary rules & regulations.

**5.0 Economic Repercussions of Closure of mine and man power retrenchments:**

The land used of the area for mining is waste land. At the end of mine it will be again agricultural.

In mining activity about 20 persons will get direct employment besides, more than 50 indirect employments.

**6.0 Time Scheduling for abandonment:**

There is no proposal for abandonment of mined o initiating closure operation during the mining plan period, so question of abandonment does not arise. The time scheduling for abandonment in mining of Brick clay will be after Completion of excavation of mineral up to depth 1.8 mts.

**7.0 Abandonment Cost:**

It is very difficult to estimate the actual abandonment cost at this stage. The Applicant/Proponent is bound to comply the provisions laid down under rules, Regulations, acts and order made by the central or state government, Statutory organization, court etc.

**8.0 Any other information:**

The lessee also intends to spend some amount towards community service. The figures are tentative and are subject to generation of profit. Around of 5 % of the profit will be diverted towards this activity.

**9.0 Financial Assurance:**

The applicant shall comply with the provisions as per Bihar Minerals (Concession, Prevention of illegal Mining, Transportation and Storage) Rules, 2019 for financial assurance. However, it is not possible to calculate financial at this stage.

**10.0 Certificate:**

Given separately & enclosed.

**11.0 Plans and Sections:**

All the plans and sections are enclosed with the Plan.

Date:

Place: Patna



प्रवेश सिंह



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

बिहार राज्यातर्गत लघु खनिजों के खनन योजना तैयार करने हेतु एंजेसी 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 कड़िका-14 में उल्लेखित प्रतिष्ठान भूमि इन्वायरस्टेक प्रा० लि० को योग्यता संबंधी प्रमाण पत्र नहीं संलग्न करने के कारण तथा कड़िका-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 :-

| S.No. | Name                     | Contact Number           | Qualifications         | Rate for preparation of Mining Plan (per Ha)                | Rate details                                                                                                                       | Address                                                                                                 |
|-------|--------------------------|--------------------------|------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1     | Dr. Radha Nand Singh     | 9430252322<br>8340280122 | M.Sc. Geology          | Rs. 15,000/-<br>(including of Tax & GST)                    |                                                                                                                                    | Dr. R.N Singh, 7HF- 6-20, Sector 7, Block 6, Flat 20, 146 Flat, Bahadurpur Housing Colony, Patna-800026 |
| 2     | Shriya Test House        | 7903157774               | M.Sc. Geology          | Rate Slab attached                                          | Rs. 10,000/- each Ha.<br>Rs. 8,000/- for each subsequent additional Ha.<br>(above rates are inclusive of 18% GST)                  | 122 C, Aastha, Road No. 5 A, Patliputra Colony, Patna - 800013                                          |
| 3     | Dr. Amarjeet Kumar Singh | 9431300228               | Ph.D. (Geology)        | Rs. 20,000/-<br>GST will be charged as per Government rules |                                                                                                                                    | S/O-Udho Singh, C/O-Sri Indrajit Kumar Singh, A-5, P. S. Sankh, District-Siwan, Bihar-841245            |
| 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. 87, Rajwara Housing, Shikhar, Near Nandha Petrol Pump, Manpur, Gaya-823003                     |
| 5     | Dr. Abhishek Kumar       | 7870527271               | Ph.D in Geology        | Rs. 8,000/-<br>(inclusive of Taxes)                         |                                                                                                                                    | B-78, P.C. Colony, Kankarbagh, Patna-800020                                                             |
| 6     | Punit Lab Mahato         | 9911537948<br>8709005621 | M.Sc. (Geology)        | Rs. 11,800/-                                                | Rate per Hectare @10,000/- + GST @18% (Rs. 1800) =Rs. 11,800/-                                                                     | House No.- 121, nagla Bhawan, kankarbagh, Siwanpur, Bhagalpur-812005                                    |
| 7     | Sandeep Kumar            | 943106886                | M.Sc. (Geology)        | Rs. 25,000/-                                                | Negotiable                                                                                                                         | Vastu-Sanjita Colony, Janakpuri, Near St. Karen's School, Gola Road, Danapur, Patna                     |
| 8     | Er. Navin Kumar Sinha    | 7086971518               | B.E. (Mining)          | Rs. 10,000/-                                                |                                                                                                                                    | Er. Navin Kumar Sinha, A-112, Sandhya Garden, Nagar, Kailash Road, Patna                                |



|    |                                                          |                          |                                                  |                                                                 |                                                                                                                                                                                                                                                                                               |
|----|----------------------------------------------------------|--------------------------|--------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20 | Pravin Kumar Sinha                                       | 7542948027               | B.E (Mining)                                     | Rs. 2,000/- per acre (Each Block Mining Plan - Rs. 30,000/-)    | 201, 2nd Floor, Mangal Market, Raja Bazar, Bailey Road, Patna-14                                                                                                                                                                                                                              |
| 21 | Md. Tawseef Warsi Greenora Mining & Envirotech Pvt. Ltd. | 9534027112               | M.Sc. (Geology)                                  | Rs. 5,000/- (Excluding GST)                                     | Greenora Mining & Envirotech Pvt. Ltd. 205 Mangal Market, Raja Bazar, Bailey Road Patna-800014                                                                                                                                                                                                |
| 22 | Prabhat Kumar Shrivastava                                | 8827477306               | B.E (Mining)                                     | Rs. 8,000/-                                                     | Flat No-101, Road No.-01, Boudh Nagar, Chirya Tani, Pratal Park, Patna-800001                                                                                                                                                                                                                 |
| 23 | Ashok Kumar Singh                                        | 8766859804               | Mining Engineer                                  | Rs. 8,000/-                                                     | C/o Shri Ram Prasad Singh, Mohalla - Mangal Bazar, P.O. - Sofarai, P.S. - Sofarai, Dist. - Madhepura, Bihar - 803118                                                                                                                                                                          |
| 24 | Sandeep Kumar                                            | 8136253120               | M.Sc. (Applied Geology)                          | Rs. 10,000/-                                                    | Anurupa Bhawan, C/O Ravi Kishan, Sunder Nagar, Lohia Path, Jagdish Park, Patna - 800014 (Bihar)                                                                                                                                                                                               |
| 25 | United Exploration India Pvt. Ltd.                       | 9431208782<br>9934304369 | Required Qualification of the employees attached | Rs. 5,200/- (inclusive all Taxes)                               | 301, 2nd Floor, Sahid Rajendra Singh Complex, Anishabad, Patna-800002                                                                                                                                                                                                                         |
| 26 | New Enviro Pvt. Ltd.                                     | 9433289636               | Required Qualification of the employees attached | Rs. 5,000/- (inclusive all Taxes)                               | 202, 2nd Floor, Mangal Market, Raja Bazar, Sheikhpura Patna - 800014                                                                                                                                                                                                                          |
| 27 | Aravind 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.      | 9438042532               | 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, Guna Sahay Lal Nagar, Road No. 2, Magistrate Colony, Acharya Nagar, Patna - 800025, Bihar                                                                                                                                     |
| 29 | Graphic Lok Sava                                         | 9934627711               | Qualifications of candidates are attached        | Rs. 7,000/-                                                     | Note -<br>1. Minimum rate for a Sand Block -<br>NR 25,000/-<br>2. Maximum rate for a Sand Block -<br>NR 50,000/-<br>OR<br>As decided by the Department of Mines & Geology, Govt. of Bihar<br>27, Guna Sahay Lal Nagar, Magistrate Colony, Acharya Nagar, Patna - 800025, Bihar                |
| 30 | Pranav Environment & Management Pvt. Ltd.                | 9708251824               | Qualifications of candidates are attached        | Rs. 10,000/- (Excluding GST @18%)                               | Remarks - Fee should not be less than 20,000 or more than 50,000 thousand for single block. (Excluded GST)<br>OR<br>As decided by the Department of Mines & Geology, Govt. of Bihar<br>203, Shagwoti haveli apartment, Road No. - 30, Anand vihar Colony, Bulandipura, 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 selection from Department of Mines & Geology, Govt. of Bihar<br>Admin. Office - Ground floor, Shyam Nagar Colony, Manraya Park, Bailey Road, PO-B.V. College, Patna-800014                                                                                     |
| 32 | ENV Development and Assessment Systems (India) Pvt. Ltd. | 5224067470<br>9535913139 | Details Of Qualification Attached                | Rs. 2,750/- (Exclusive all Taxes)                               | Prabha Mahalan, road No. 13, Patel Nagar, Near Petrol Pump, Patna-800029                                                                                                                                                                                                                      |



|    |                                |             |                                   |                                    |             |                                                                                                     |
|----|--------------------------------|-------------|-----------------------------------|------------------------------------|-------------|-----------------------------------------------------------------------------------------------------|
| 33 | Indinite Pvt. Ltd.             | 94310401129 | Bachelor of Engineering (Mining)  | Rate for each District is enclosed | Enclosure A | HL/No-21, First Floor, IAS Colony, S.K. Nagar, Patna-800001                                         |
| 34 | M/S Sampat India               | 7296089688  | Bachelor of Architecture          | Rs. 3,500/-                        |             | South of Madhuban Housing complex, Malahi Patti, Kankarbagh-800020                                  |
| 35 | Saathi Planners Pvt. Ltd.      | 9835837778  | Details of qualification attached | Rs. 12,000/-                       |             | C/O Mr. Anil Kumar, plot No. L-171, Road No. 23 Near Malhi Nakeran, Sri Krishna Nagar, Patna-800001 |
| 36 | OmniTech Info-Tech Consultants | 9460022084  | Details of qualification attached | Rs. 13,000/-                       |             | 501, 5th Floor, Apex Tower, Tonk Road, Bhubaneswar-751015, Tel: 0674-2744509                        |

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) ₹00 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 तथु 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।

ह0/- सहायक सचिव, स0नि0 (मु0) अवर सचिव, स0नि0 (मु0) उप निदेशक, पटना अंचल, पटना स0नि0 (मु0) उप निदेशक, पटना अंचल, पटना अवर सचिव-सह-निदेशक, अंचल

ह0/- सरकार के अवर सचिव

ज्ञायांक: \_\_\_\_\_/एम0, दिनांक: \_\_\_\_\_  
प्रतिलिपि-सभी समाहर्ता को सूचनार्थ एवं आवश्यक कार्यवाई हेतु प्रेषित।

ह0/- सरकार के अवर सचिव

ज्ञायांक: \_\_\_\_\_/एम0, दिनांक: \_\_\_\_\_  
प्रतिलिपि-सभी उप निदेशक/सभी सहायक निदेशक/सभी खनिज विकास पदाधिकारी/सभी खान निरीक्षक को सूचनार्थ एवं आवश्यक कार्यवाई हेतु प्रेषित।

ह0/- सरकार के अवर सचिव

ज्ञापांक:- 3825 / एम०, दिनांक- ०७/११/११

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।

मिने  
२१/११/११

२१/११/११  
सरकार के अवर सचिव





# ANNEXURE NO.-1



बिहार BIHAR



178

मौज मालिक कोरा नारायण साकिन कोरा नारायण  
मौज कोरा नारायण साकिन कोरा नारायण - 1000

एकरा नामा (Agreement) (निर्माण के)

प्रथम पक्ष-मनीष तिवारी पिता-स्व० श्रीमननारायण तिवारी साकिन कोरा नारायण साया, थाना-कोरा नारायण अंचल-डुमराँव जिला-बक्सर (बिहार) का स्थाई निवासी हूँ। मैं शपथ पूर्वक घोषणा करता हूँ की 21.5.2024

द्वितीय पक्ष-मेसर्स महल, ईट उद्योग, प्रो०-मुकेश सिंह पिता-श्री बहादुर सिंह साकिन-कोरा नारायण साया, थाना-कोरा नारायण अंचल-डुमराँव जिला-बक्सर का स्थाई निवासी हूँ।

प्रथम पक्ष अपनी जमीन द्वितीय पक्ष को 2 मीटर मिट्टी काटकर ईट बनाने के लिए पाँच वर्ष तक का सहमति दे रहा हूँ इसके एवज में मुझे (10,000) दस हजार प्रति एकड़ के दर से लेंगे जिसका खाता खेसरा निम्नलिखित हैं।

| ग्राम        | खाता नं० | खेसरा नं० | एराजी      |
|--------------|----------|-----------|------------|
| मौजा-मठिला   | 221, 222 | 6882      | 10 एकड़    |
| थाना नं०-378 |          | 6846      | 95.875 डी० |



मनीष तिवारी  
प्रथम पक्ष का हस्ताक्षर

मुकेश सिंह  
द्वितीय पक्ष का हस्ताक्षर

Surendra P. Singh  
30.05.2024



मुकेश सिंह

5/28/24, 7:23 PM

bhumagan.bihar.gov.in/citizen/payment\_receipt.aspx?uid=hx544HdqvaVK70ADa5UNT2YrJNdwpRN1%2fVmezAdMc%3d&amp;dl...



## राजस्व एवं भूमि सुधार विभाग, बिहार

सरकार

प्रपत्र-XIV ख  
(देखें नियम-10)

लगान रसीद

ऑनलाइन

Running Unique No.: 28052407112131667787  
(Receipt No.)

|                                                |                         |
|------------------------------------------------|-------------------------|
| जिला :- Buxar                                  | अंचल :- Dumraon         |
| हल्का :- मठीला                                 | मोजा :- मठीला           |
| जमाबंदी संख्या :- 13/1                         |                         |
| भाग वर्तमान :- 13                              |                         |
| पृष्ठ संख्या :- 4119                           | मोजा/थाना संख्या :- 378 |
| कंप्यूटरीकृत जमाबंदी संख्या :- 194144000058255 |                         |
| जमाबंदी रयत का नाम :- मनीष तिवारी              | पता :- कोरान सराय       |
| अभिभावक का नाम :- श्रीमन नारायण तिवारी         |                         |

|              |             |                                |
|--------------|-------------|--------------------------------|
| खाता संख्या  | खसरा संख्या | रकबा/डिसमिल                    |
| 222,221, 222 | 6882, 6846  | 10 एकड़ 95.875 डिसमिल 0 हेक्टर |

## सालाना मांग(बकाया और वर्तमान) चालू वित्तीय वर्ष का

| वित्तीय वर्ष                                                                                             | सालाना दर | बकाया | वर्तमान | सूद  | कुल    | अभियुक्ति(बकाया का वर्ष कब से कब तक) |
|----------------------------------------------------------------------------------------------------------|-----------|-------|---------|------|--------|--------------------------------------|
| जमाबंदी लगान                                                                                             | 200.00    | 0.00  | 200.00  | 0.00 | 200.00 | 2024-2025 से 2024-2025               |
| सेस(लगान का 50 प्रतिशत स्वास्थ्य सेस, 50 प्रतिशत शिक्षा सेस, 25 प्रतिशत रोड सेस एवं 20 प्रतिशत कृषि सेस) | 290.00    | 0.00  | 290.00  | 0.00 | 290.00 | 2024-2025 से 2024-2025               |
| कुल                                                                                                      | 490.00    | 0.00  | 490.00  | 0.00 | 490.00 | 2024-2025 से 2024-2025               |

वसूली

| वित्तीय वर्ष                                                                                             | बकाया के विरुद्ध वसूली | वर्तमान मांग के विरुद्ध कुल वसूली | कुल वसूली | अवशेष राशि(बकाया का वर्ष कब से कब तक) | अभियुक्ति |
|----------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-----------|---------------------------------------|-----------|
| लगान                                                                                                     | 0.00                   | 200.00                            | 200.00    | 2024-2025 से 2024-2025                |           |
| सेस(लगान का 50 प्रतिशत स्वास्थ्य सेस, 50 प्रतिशत शिक्षा सेस, 25 प्रतिशत रोड सेस एवं 20 प्रतिशत कृषि सेस) | 0.00                   | 290.00                            | 290.00    | 2024-2025 से 2024-2025                |           |
| कुल                                                                                                      | 0.00                   | 490.00                            | 490.00    | 2024-2025 से 2024-2025                |           |



तिथि: 28-05-2024

मुद्रा सह

**BIHAR STATE POLLUTION CONTROL BOARD**

Parivesh Bhawan, NSB-2, Patliputra Industrial Area  
Patliputra, Patna - 800 010

Ref No - 1560

Patna, dated- 5-11-19

**EMISSION CONSENT ORDER**

With reference to the application ID. 2952019, dated: 31.08.2019, affidavit dated 02.09.2019 to have constructed brick kiln with cleaner technology of M/s Mahal Int Udyog, At+Po.+Ps.- Koransarai, Dist.- Buxar for consent under sections 21 of the Air (Prevention & Control of Pollution) Act, 1981, he/they is/are granted **consent-to-operate (CTO)** for the rectangular brick kiln Natural Draft & Zig-Zag loading of bricks having capacity (10,000 Nos./day, Fuel- Coal- 2.5 MT/day, Source of Emission-fixed chimney-(Height-148 feet) At- Mathila, Bankat, Mungaon, Dist.- Buxar-802126 for the period upto 30.06.2024 with the following conditions:-

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 22,23 and 31A of the Air(Prevention & Control of Pollution) Act, 1981 and further shall extend co-operation to the Board in performing its functions entrusted under sections 24,25 and 26 of the Act.
- 2 That, he /they shall comply with the requirements of rule 14 of the Environment (Protection) Rules, 1986; relevant rules of the Hazardous and Others Wastes (Management, Handling & Transboundary Movement), Rules 2016; rules of the Manufacture, Storage and Import of Hazardous Chemical Rules,1989; and the provisions of the Public Liability Insurance Act, 1991, whichever is applicable.
- 3 That, he/they shall monitor his/their emission(s) and the ambient air quality from representative point regularly and shall maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for.
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent i.e. 31.05.2024 or within 30 days from the date of receipt of this order, whichever is applicable.
- 5 That, the unit shall submit flue gas analysis report to the Board yearly and that shall conform to the standard of the Board and particulate matter in the emission shall not exceed more than 250 mg/Nm<sup>3</sup>;
- 6 That, all the moving area around the main brick kiln including access road should be paved with the bricks to minimize the fugitive dust emissions from the brick kiln operations;
- 7 That, tree plantation all around the campus in two rows of evergreen species shall be developed and well maintained;
- 8 That, the unit shall submit Environmental Statement yearly on or before 30<sup>th</sup> Sept.
- 9 The unit shall operate with having prior E.C. from competent authority.
- 10 That, they shall make provisions for display of data outside main factory gate about quantity and quality of water discharge and air emissions along with solid waste generated within the factory premises.
- 11 The unit shall have a display board near the site stating name of unit/Industry with address/name of proprietor with address and ref. no. and date of consent with its validity period granted by the Board.

To  
Sri Mukesh Singh  
S/o Sri Vir Bahadur Singh  
M/s Mahal Int Udyog  
At+Po.+Ps - Koransarai  
Dist - Buxar-802126



EPABN & 0612-2261250/2262265, Fax & 0612-226110  
E-mail: bspcb@biodh.com, Website & http://bspcb.biodh.com

मुकुंश सिंह

## ANNEXURE NO.-2

प्रेषित,

खान निरीक्षक  
-सह-  
सक्षम पदाधिकारी  
बक्सर।

विषय :- ईट-सत्र-2021-22 में संचालित किये जाने वाले ईट-गट्टा का स्वामिस्व एवं अन्य राशि  
भुगतान करने के सम्बन्ध में।

महाशय,

सविनय निवेदन है कि मैं मुकेश सिंह बक्सर  
जिलान्तर्गत प्रखण्ड इमरान मौजा होला में अवस्थित ईट उद्योग  
संचालित किया जाना है। ईट उद्योग के संचालन हेतु वांछित कागजात आवेदन के साथ संलग्न है। देय  
स्वामिस्व की राशि की विवरणी निम्न प्रकार है :-

| क्र०सं० | भद        | राशि   | बैंक का नाम | बैंक ड्राफ्ट / GRN No. | बैंक ड्राफ्ट<br>/ OGRAS<br>का दिनांक |
|---------|-----------|--------|-------------|------------------------|--------------------------------------|
| 1       | स्वामिस्व | 111275 | S.B.I       | BHR20231106179169M     | 6.11.23                              |
| 2       | आयकर      | 2201   | S.B.I       | 23110600101760         | 6.11.23                              |
| 3       | डीएमओएफ   | 2137   | S.B.I       | Deposit Form           | 6.11.23                              |

अतः अनुरोध है कि बैंक ड्राफ्ट / OGRAS के माध्यम से जमा राशि को खनन शीर्ष में  
समायोजित कर अनुज्ञा पत्र प्रदान करने की कृपा की जाय।



Mukesh Singh  
प्रो० का हस्ताक्षर

1. OGRAS द्वारा बैंक में जमा प्रति।
2. बैंक ड्राफ्ट (आयकर एवं DMF)।
3. ईट-सत्र 2021-22 का अनुज्ञा पत्र
4. शपथ पत्र की मूल प्रति।
5. जमीन के कागजात की छायाप्रति।
6. जमीन के नक्शा की छायाप्रति।
7. CTO की छायाप्रति।
8. पैन कार्ड, आधार कार्ड एवं GST की छायाप्रति।
9. वाणिज्य कर विभाग में पेसाकर भुगतान प्रमाण पत्र।

मेसर्स-  
प्रो० का नाम- मुकेश सिंह  
पार्टनर का नाम-  
पिता का नाम- गौर बहादुर सिंह  
ग्राम- होला  
पोस्ट- होला  
थाना- होला  
अंचल- इमरान  
जिला- बक्सर  
मो० नं०- 980111279

मार्क- hbm श्रेणी- 111  
मुकेश सिंह

|                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>भारत सरकार<br/>Government of India</p>  <p>मुकेश सिंह<br/>Mukesh Singh<br/>जन्म तिथि/ DOB: 15/06/1987<br/>पुल्ल / MALE</p>  <p>8450 9382 3090</p> <p>मेरा आधार, मेरी पहचान</p> |  <p>एकलिंग प्रमाण प्रणालि<br/>Unique Identification Authority of India</p> <p>पता:<br/>S/O श्री बहादुर सिंह, 103, कोरास<br/>सराय, कोरास सारा, कोराससराय,<br/>कुनसराय, बक्सर<br/>बिहार - 802126</p> <p>Address:<br/>S/O Yr Bahadur Singh,<br/>103, Icran sarai, korai sarai,<br/>kurai sarai, Kuanasarae, Buxar,<br/>Bihar - 802126</p> <p>8450 9382 3090</p> <p>1917</p> <p>help@uidai.gov.in</p> <p>www</p> <p>www.uidai.gov.in</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



मुकेश सिंह

आयकर विभाग

INCOME TAX DEPARTMENT

MUKESH SINGH

VIR BAHADUR SINGH

15/06/1987

Permanent Account Number

CDJPS6496L



Signature

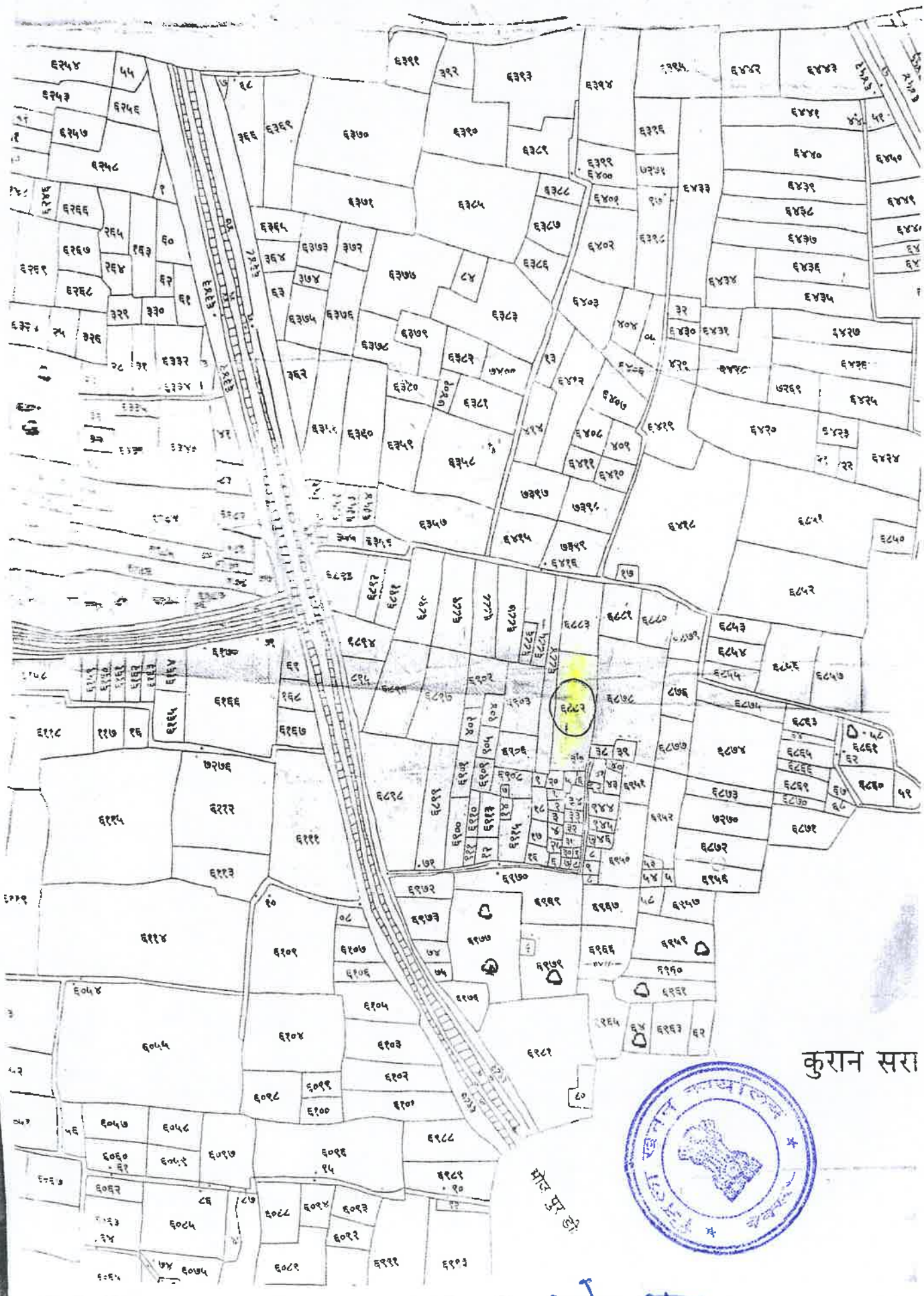


भारत सरकार  
GOVT. OF INDIA



23032013

मुकेश सिंह



कुरान सरा



मोल पुर लो

मुख्या सिंह

## ANNEXURE NO.-3

# PLATES

# LOCATION MAP

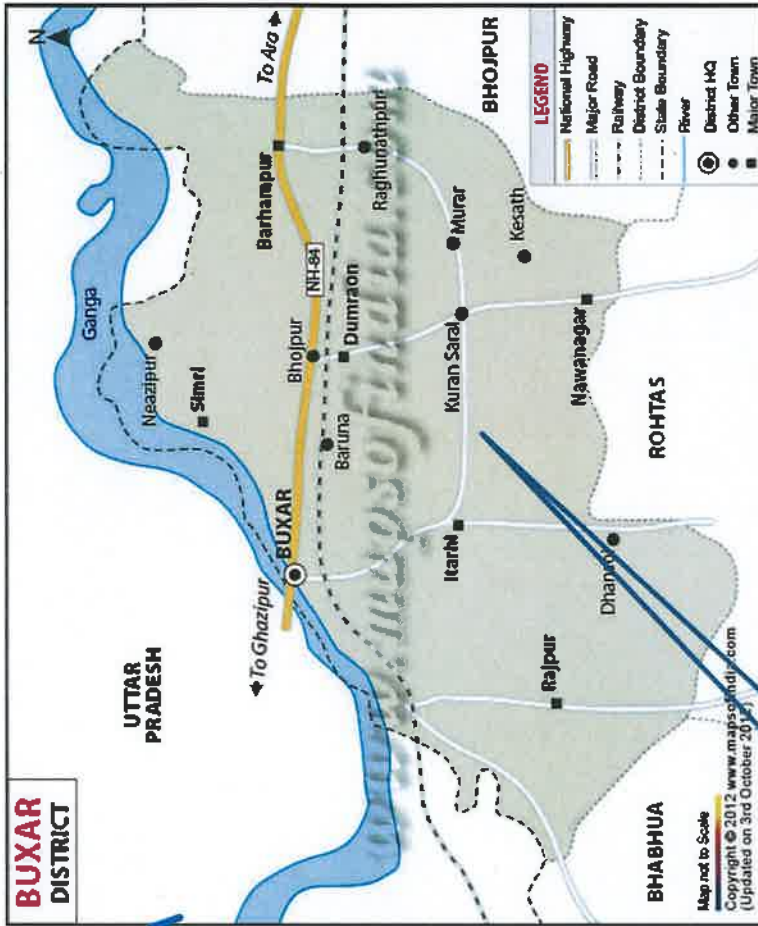
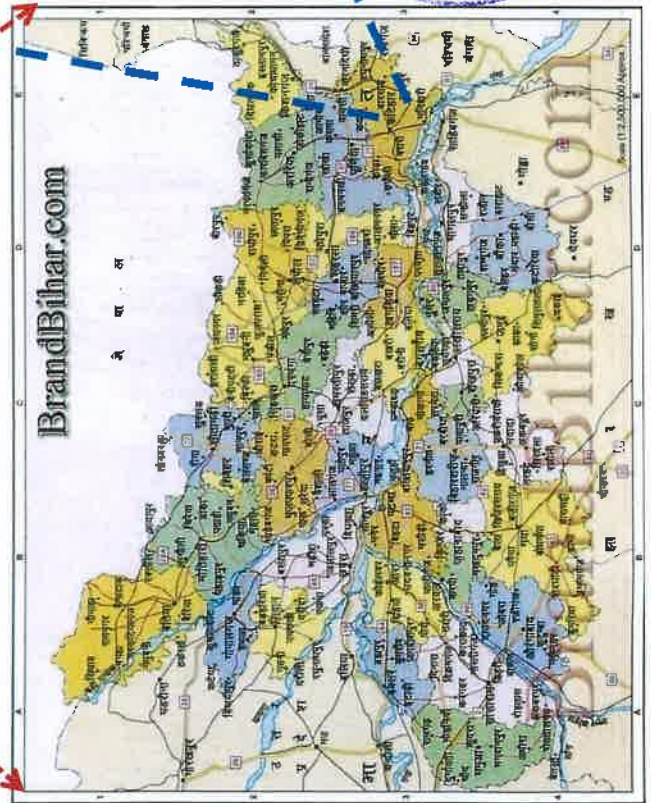


PLATE No.1

| LOCATION PLAN                                                                                 |
|-----------------------------------------------------------------------------------------------|
| M/S MAHALINT UDYOG<br>MAUZA- BANKAT, P.O- MUNGAON,<br>P.S-KORAN SARAI, DISTT.- BUXAR (BIHAR). |
| PROP.-: MUKESH SINGH                                                                          |
| AREA:- 5.0 ACRE                                                                               |
| SIGNATURE <i>M/S</i>                                                                          |



मुकुश सिंह



ADHVI JI DERA. TEMPLE



Buxar

Mungaon Rd

Kopwa Village Rd

Koran Saraiyan-Ekauni Road

Mugaon bus stop

HP PE

Primary School Bankat, Mugaon



900 m

MAHAL INT UDYOG

|   |                   |
|---|-------------------|
| 1 | LEASE BOUNDARY    |
| 2 | 500M. BUFFER ZONE |
| 3 | BRICK KILN        |
| 4 |                   |

PLATE NO.-2



ROUTE MAP

M/S MAHAL INT UDYOG  
 PROP:-MUKESH SINGH  
 S/O MR. VEER BAHADUR SINGH  
 VILL:-BANKAT,MAUZA:-MATHILA P.O:-MUNGAON,  
 P.S:-KORAN SARAI, DIST.:-BUXAR (BR)

SCALE:-1:1000 AREA:-10 ACRE

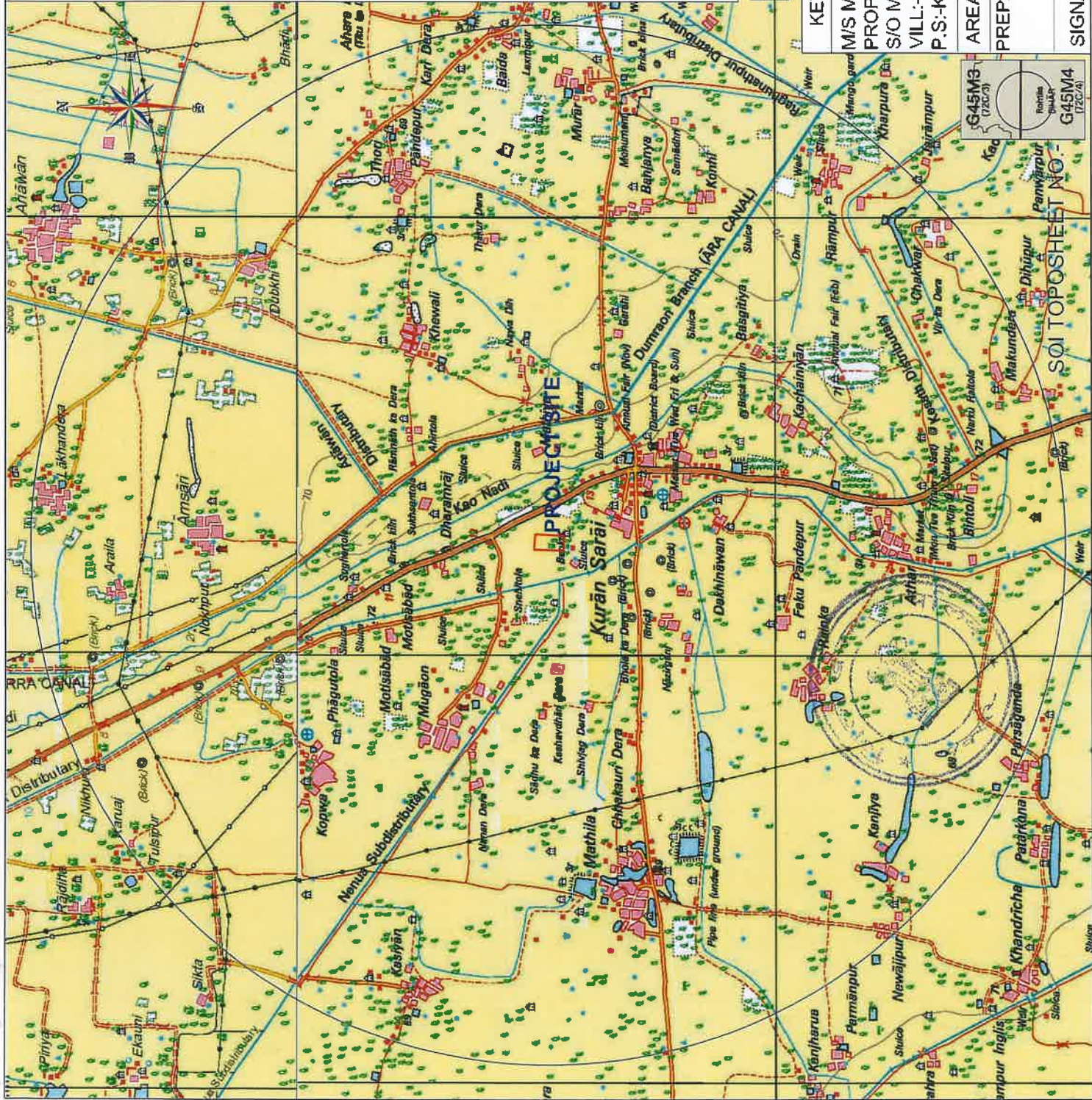
PREPARED BY:-Er.Pravin Kumar Sinha  
 REG. NO. RQP/BIH/SR.NO.20  
 LETTER NO.672 DATED 07/11/2019

SIGNATURE

*[Signature]*

*मुकेश सिंह*





**CONVENTIONAL SYMBOLS**

|                                                                   |                                                                   |
|-------------------------------------------------------------------|-------------------------------------------------------------------|
| Express highway: with belt, with bridges with distance zone       | Express highway: with belt, with bridges with distance zone       |
| Roads, metalled: according to importance                          | Roads, metalled: according to importance                          |
| Roads, double cartways: according to importance                   | Roads, double cartways: according to importance                   |
| Unmetalled road, Cart-track, Foot-track with pass, Foot-path      | Unmetalled road, Cart-track, Foot-track with pass, Foot-path      |
| Stream: with tract in bed, undrained, Canal                       | Stream: with tract in bed, undrained, Canal                       |
| Dam: masonry or rock-filled, earthwork, Weir                      | Dam: masonry or rock-filled, earthwork, Weir                      |
| River: dry with water channel, with island & rocks, Tidal river   | River: dry with water channel, with island & rocks, Tidal river   |
| Submerged rocks, Shrub, Swamp, Reeds                              | Submerged rocks, Shrub, Swamp, Reeds                              |
| Water: fresh, unfilled, Tube-well, Spring, Trench, perennial; dry | Water: fresh, unfilled, Tube-well, Spring, Trench, perennial; dry |
| Embankment: road or rail; bank, Broken ground                     | Embankment: road or rail; bank, Broken ground                     |
| Railways, broad gauge: double; single with section; under constn. | Railways, broad gauge: double; single with section; under constn. |
| Railways, other gauge: double; single with distance zone; do.     | Railways, other gauge: double; single with distance zone; do.     |
| Mixed line or railway, Km. Gauging with level                     | Mixed line or railway, Km. Gauging with level                     |
| Contours with sub-features, Rocky slopes, Cliffs                  | Contours with sub-features, Rocky slopes, Cliffs                  |
| Sand features: (Hills, Dunes, Mounds, etc.)                       | Sand features: (Hills, Dunes, Mounds, etc.)                       |
| Towns or Villages: inhabited, deserted, Fort                      | Towns or Villages: inhabited, deserted, Fort                      |
| Hill: permanent, temporary, Tower, Antiquities                    | Hill: permanent, temporary, Tower, Antiquities                    |
| Temples, Churches, Mosques, Ghat, Tomb, Graves                    | Temples, Churches, Mosques, Ghat, Tomb, Graves                    |
| Lighthouses, Lightships, Buys: lighted, unlighted, Anchorage      | Lighthouses, Lightships, Buys: lighted, unlighted, Anchorage      |
| Mine, Vine on wall, Grass, Scrub                                  | Mine, Vine on wall, Grass, Scrub                                  |
| Palms: palmyra, other, Plantain, Coconut, Bamboo, Other trees     | Palms: palmyra, other, Plantain, Coconut, Bamboo, Other trees     |
| Areas: cultivated, wooded, Surveyed tree                          | Areas: cultivated, wooded, Surveyed tree                          |
| Boundary, international                                           | Boundary, international                                           |
| state: demarcated, undemarcated                                   | state: demarcated, undemarcated                                   |
| district: subdivided, total or tribal forest                      | district: subdivided, total or tribal forest                      |
| Boundary pillar: surveyed; unlocated; village situation           | Boundary pillar: surveyed; unlocated; village situation           |
| Height, triangulation: station; point; approximate                | Height, triangulation: station; point; approximate                |
| Bench mark: geodetic; tertiary; canal                             | Bench mark: geodetic; tertiary; canal                             |
| Post office, Telegraph office, Overhead tank                      | Post office, Telegraph office, Overhead tank                      |
| Rail house or inspection bungalow, Circuit house, Police station  | Rail house or inspection bungalow, Circuit house, Police station  |
| Camping ground, Forest reserve; protected                         | Camping ground, Forest reserve; protected                         |
| Special names: administrative, locality or tribal                 | Special names: administrative, locality or tribal                 |
| Hospital, Dispensary, Veterinary: Hospital/Dispensary             | Hospital, Dispensary, Veterinary: Hospital/Dispensary             |
| Aerodrome, Helipad, Toward etc.                                   | Aerodrome, Helipad, Toward etc.                                   |
| Power line: with pylons surveyed; with poles unsurveyed           | Power line: with pylons surveyed; with poles unsurveyed           |

**KEY PLAN**

M/S MAHAL INT UDYOG  
 PROP:- MUKESH SINGH  
 S/O MR. VEER BAHADUR SINGH  
 VILL:- BANKAT, MAUZA:- MATHILA P.O:- MUNGAON,  
 P.S:- KORAN SARAI, DIST:- BUXAR (BR)

AREA:- 10 ACRE

PREPARED BY :- Er. Pravin Kumar Sinha  
 REG. NO. RQP/BIH/SR.NO.20  
 LETTER NO.3825 DATED 07/11/2019

SIGNATURE *[Signature]* PLATE NO.-4

मुकेश सिंह

25°28'45.99"N  
84°10'34.95"E

25°28'45.41"N  
84°10'40.23"E



6882

25°28'37.71"N  
84°10'33.88"E

25°28'37.30"N  
84°10'38.97"E



| LEGEND |                        |
|--------|------------------------|
| 1      | APPLIED LEASE BOUNDARY |
| 2      | CONTOUR (1M INTERVAL)  |
| 3      | GPS READING            |
| 4      | APPROACH ROAD          |
| 5      |                        |

PLATE NO:-5

#### SURFACE PLAN

M/S MAHAL INT UDYOG  
PROP:-MUKESH SINGH  
S/O MR. VEER BAHADUR SINGH  
VILL:-BANKAT, MAUZA:-MATHILA P O:-MUNGAON,  
P.S.-KORAN SARAI DIST.-BUXAR (BR)

SCALE-1:1000 AREA-5.0 ACRE

PREPARED BY:-Er. Pravin Kumar Sinha  
REG. NO. RQP/BIH/SR.NO.20  
LETTER NO.672 DATED 07/11/2019

SIGNATURE

मुकेश सिंह

25°28'45.99"N  
84°10'34.95"E

25°28'45.41"N  
84°10'40.23"E



25°28'37.71"N  
84°10'33.88"E

25°28'37.30"N  
84°10'39.97"E

94mtr

0 50 100 MTS



LEGEND

|         |  |                        |
|---------|--|------------------------|
| 1       |  | APPLIED LEASE BOUNDARY |
| 2       |  | 1.5 M BERM             |
| 3       |  | CONTOUR (1M INTERVAL)  |
| 4       |  | GPS READING            |
| 5       |  | APPROACH ROAD          |
| 6       |  |                        |
| GEOLOGY |  |                        |
| 1       |  | BRICK EARTH            |
| 2       |  |                        |

PLATE NO:-6

GEOLOGICAL PLAN

M/S MAHAL INT UDYOG  
PROP-MUKESH SINGH  
S/O MR. VEER BAHADUR SINGH  
VILL-BANKAT, MAUZA-MATHILA P O-MUNGAON,  
P S-KORAN SARAI DIST.-BUXAR (BR)

SCALE-1:1000

AREA-5.0 ACRE

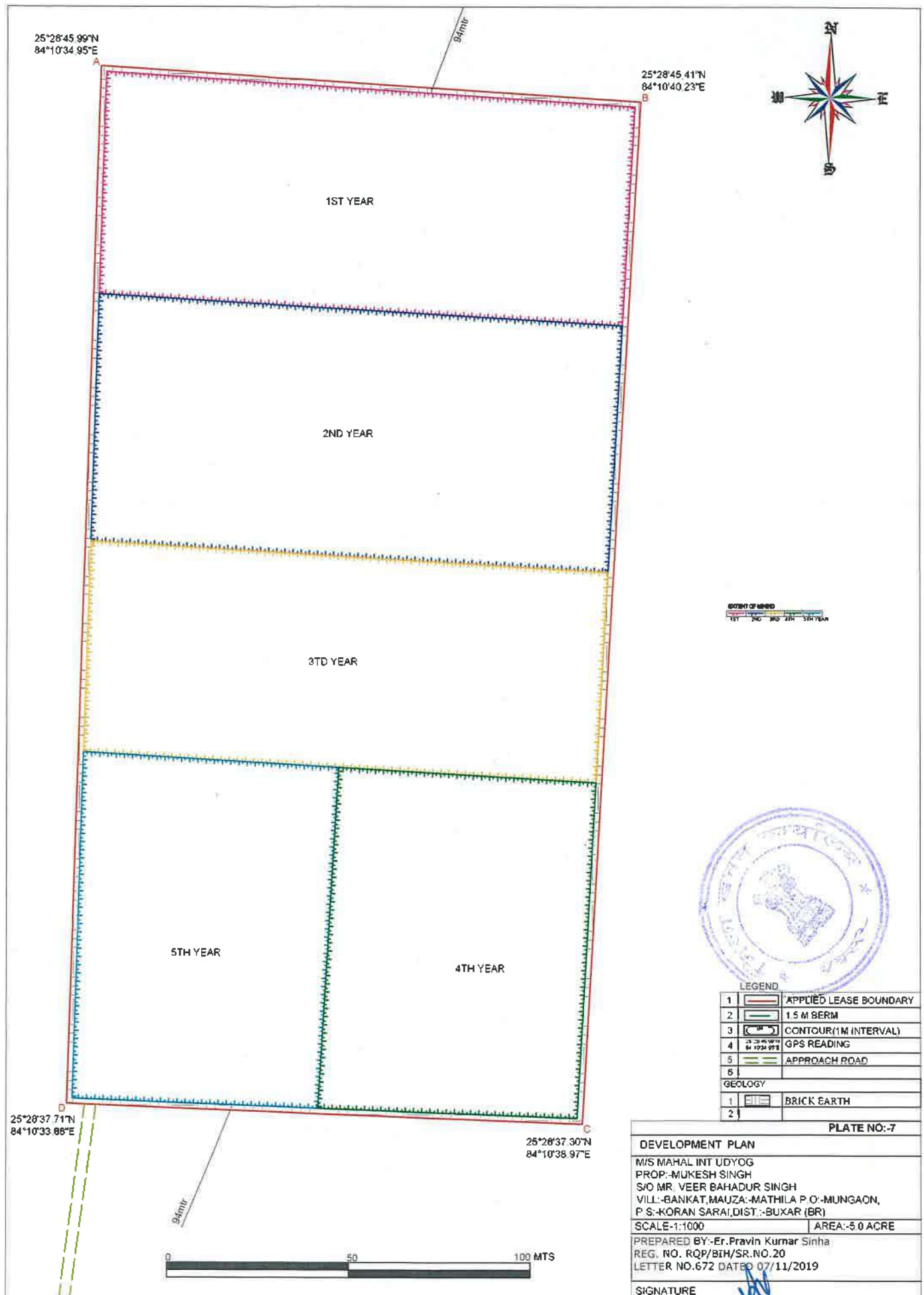
PREPARED BY -Er. Pravin Kumar Sinha

REG. NO. RQP/BIH/SR.NO.20

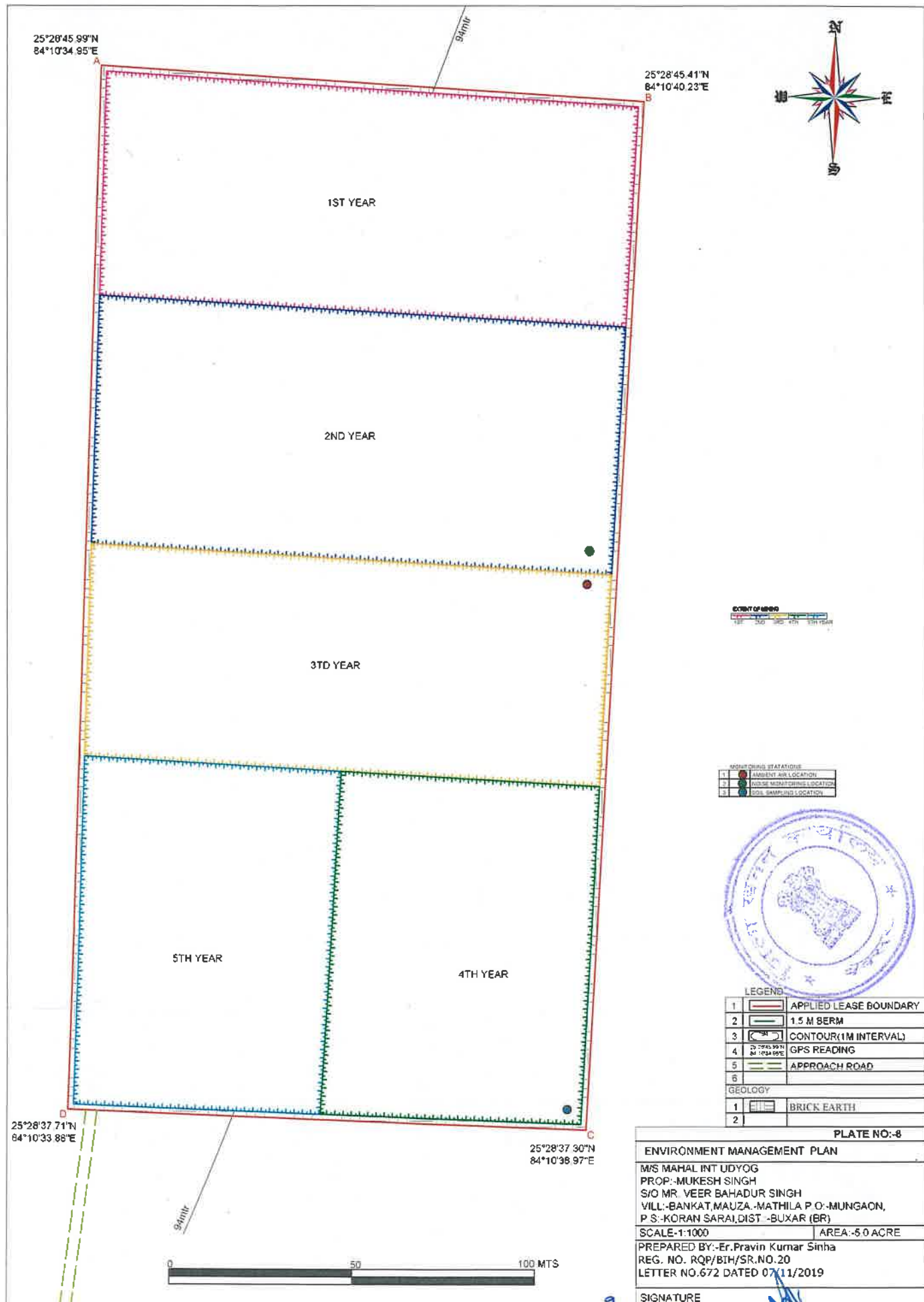
LETTER NO.672 DATED 07/11/2019

SIGNATURE

मुकेश सिंह



मुकेश सिंह



| MONITORING STATION |                           |
|--------------------|---------------------------|
| 1                  | AMBIENT AIR LOCATION      |
| 2                  | WASTE MONITORING LOCATION |
| 3                  | SOIL SAMPLING LOCATION    |



| LEGEND  |                        |
|---------|------------------------|
| 1       | APPLIED LEASE BOUNDARY |
| 2       | 1.5 M BERM             |
| 3       | CONTOUR(1M INTERVAL)   |
| 4       | GPS READING            |
| 5       | APPROACH ROAD          |
| 6       |                        |
| GEOLOGY |                        |
| 1       | BRICK EARTH            |
| 2       |                        |

**PLATE NO:-8**

**ENVIRONMENT MANAGEMENT PLAN**

M/S MAHAL INT UDYOG  
 PROP:-MUKESH SINGH  
 S/O MR. VEER BAHADUR SINGH  
 VILL:-BANKAT,MAUZA:-MATHILA P O:-MUNGAON,  
 P S:-KORAN SARAI,DIST :-BUXAR (BR)

SCALE:-1:1000      AREA:-5.0 ACRE

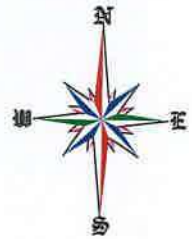
PREPARED BY:-Er.Pravin Kumar Sinha  
 REG. NO. RQP/BIH/SR.NO.20  
 LETTER NO.672 DATED 07/11/2019

SIGNATURE

*Handwritten signature and initials in blue ink.*

25°28'45.99"N  
84°10'34.95"E

25°28'45.41"N  
84°10'40.23"E



— CULTIVATED AREA  
★ PLANTATION

| MONITORING STATION |                           |
|--------------------|---------------------------|
| 1                  | AMBIENT AIR LOCATION      |
| 2                  | HOUSE MONITORING LOCATION |
| 3                  | SOIL SAMPLING LOCATION    |



| LEGEND  |                        |
|---------|------------------------|
| 1       | APPLIED LEASE BOUNDARY |
| 2       | 1.5 M BERM             |
| 3       | CONTOUR (1M INTERVAL)  |
| 4       | GPS READING            |
| 5       | APPROACH ROAD          |
| 6       |                        |
| GEOLOGY |                        |
| 1       | BRICK EARTH            |
| 2       |                        |

PLATE NO:-9

### CONCEPTUAL PLAN

M/S MAHAL INT UDYOG  
PROP:-MUKESH SINGH  
S/O MR. VEER BAHADUR SINGH  
VILL:-BANKAT, MAUZA:-MATHILA P.O:-MUNGAON,  
P.S.-KORAN SARAI, DIST.:-BUXAR (BR)

SCALE-1:1000 AREA-5.0 ACRE

PREPARED BY -Er. Pravin Kumar Sinha

REG. NO. RQP/BIH/SR.NO.20

LETTER NO.672 DATED 07/11/2019

SIGNATURE

मुकेश सिंह

25°28'45.99"N  
84°10'34.95"E

25°28'45.41"N  
84°10'40.23"E



1ST YEAR

2ND YEAR

3TD YEAR

5TH YEAR

4TH YEAR



| LEGEND  |                        |
|---------|------------------------|
| 1       | APPLIED LEASE BOUNDARY |
| 2       | 1.5 M BERM             |
| 3       | CONTOUR(1M INTERVAL)   |
| 4       | GPS READING            |
| 5       | APPROACH ROAD          |
| 6       |                        |
| GEOLOGY |                        |
| 1       | BRICK EARTH            |
| 2       |                        |

25°28'37.71"N  
84°10'33.88"E

25°28'37.30"N  
84°10'38.97"E



PLATE NO:-10

### RECLAMATION/REHABILITATION PLAN

M/S MAHAL INT UDYOG  
PROP.-MUKESH SINGH  
S/O MR. VEER BAHADUR SINGH  
VILL.-BANKAT, MAUZA.-MATHILA P.O.-MUNGAON,  
P.S.-KORAN SARAI, DIST.-BUXAR (BR)

SCALE-1:1000 AREA-5.0 ACRE

PREPARED BY:-Er.Pravin Kumar Sinha  
REG. NO. RQP/BIH/SR.NO. 20  
LETTER NO.672 DATED 07/11/2019

SIGNATURE

मुकेश सिंह

