



Sample 1



Sample 2



Sample 3

1.5 Ha Upper Dikrong Boulder MPA

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Lower Subansiri Sand & Gravel MCA

Area Allotted: 24.0 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 1)

Google Image (different time scale with date):



Date of Acquisition: 28.12.2016



Date of Acquisition: 6.01.2019



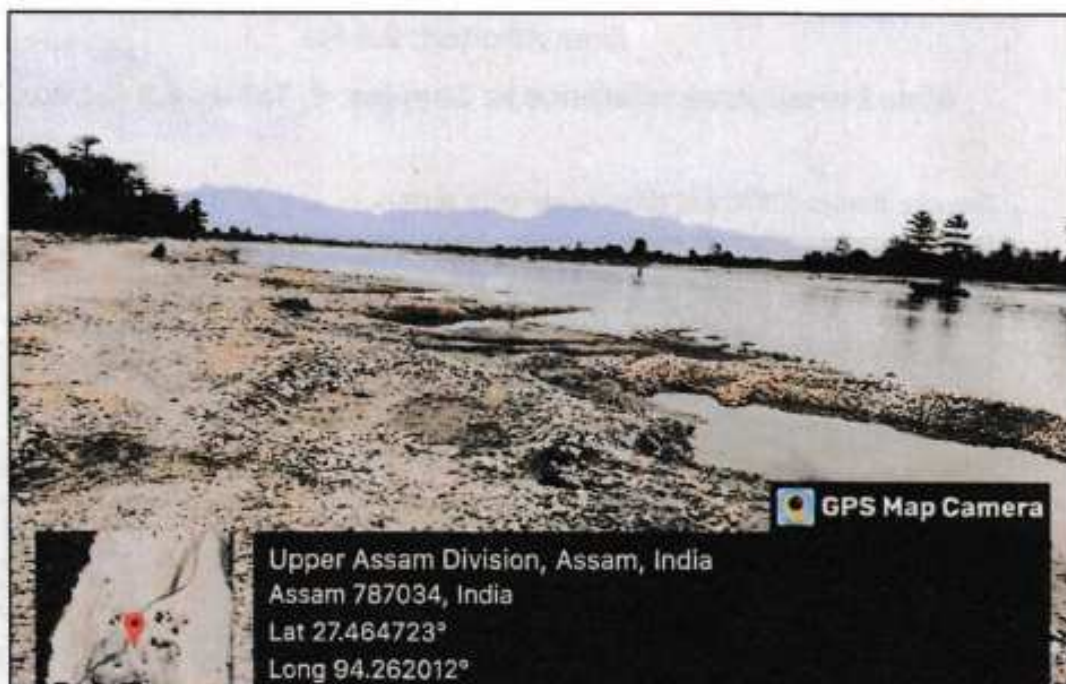
Date of Acquisition: 19.10.2022

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Bhimpara Sand & Gravel MPA

Area Allotted: 2.5 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 2)

Google Image (different time scale with date):



Date of Acquisition: 28.12.2016



Date of Acquisition: 3.08.2019



Date of Acquisition: 19.10.2022

Minerals: Sand, Gravel, Boulder, Ordinary Clay

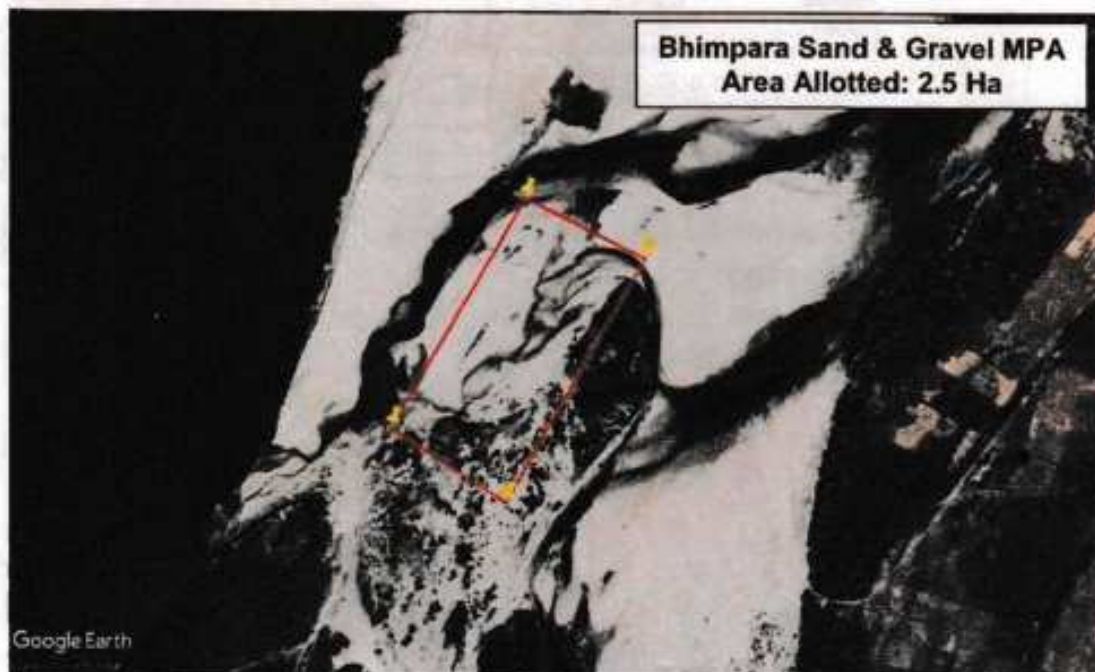
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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
Bhimpara Sand & Gravel MPA (outside MCA)**

Site : 2.5 Ha Bhimpara MPA outside MCA in Lakhimpur Division of North Lakhimpur District , Assam

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part I.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of 110 ± 5°C and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075

Three samples from different location are tested

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1		29.54	70.25	0.21
Sample2		30.25	69.61	0.14
Sample3		30.03	69.79	0.18

From analysis of three samples it is broadly classified as

% Gravel = 30%

% Sand = 70 %

% silt is very small so ignored



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur



Loose density of Gravel = 1.46 Ton/m³

Loose density of Sand = 1.44 Ton/m³

Proportion of gravel : Sand on weight = 30:70 = 1:2.33

Proportion of gravel : Sand on Volume = $1/1.46:2.33/1.44 = 0.68 : 1.62 = 1:2.38$

Proportion of gravel : Sand on Volume % = $1 \times 100 / (1+2.38) : 2.38 \times 100 / (1+2.38)$
= 29.58 : 70.41

Therefore % of gravel in Volume = 29.58 say 30%

% of sand in Volume = 70.41 say 70%

Volume basis classification of aggregates are as follows

% of gravel in Volume = 30%

% of sand in Volume = 70%



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Location : 2.5 Ha Bhimpara MPA outside MCA

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	781	3.34	3.34	96.66
20	1532	6.72	10.06	89.94
4.75	4437	19.48	29.54	70.46
0.075	18005	70.25	99.79	0.21
Pan	47			
Total	22782			

% Gravel = 29.54
 % Sand = 70.25
 % Silt = 0.21



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 2.5 Ha Bhimpara MPA outside MCA

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample2

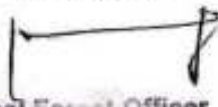
Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	679	2.93	2.93	97.07
20	1812	6.96	9.90	90.10
4.75	4713	20.36	30.25	69.75
0.075	18115	89.61	99.86	0.14
Pan	32			
Total	23151			

% Gravel = 30.25 %
 % Sand = 69.61 %
 % Silt = 0.14 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 2.5 Ha Bhimpara MPA outside MCA

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	802	3.29	3.29	96.71
20	1726	7.07	10.36	89.64
4.75	4802	19.67	30.03	69.97
0.075	17032	69.78	99.82	0.18
Pan	45			
Total	24407			

% Gravel = 30.03 %
% Sand = 69.79 %
% Silt = 0.18 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Sample1



Sample2



Sample3

2.5 Ha Bhimpara MPA Outside MCA



Minerals: Sand, Gravel, Boulder, Ordinary Clay

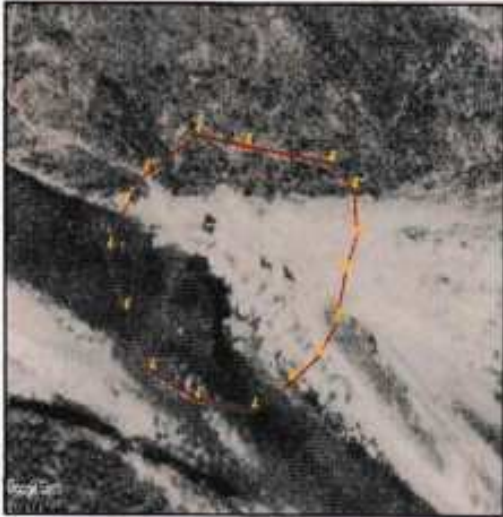
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Ranganadi Sand & Gravel MPA

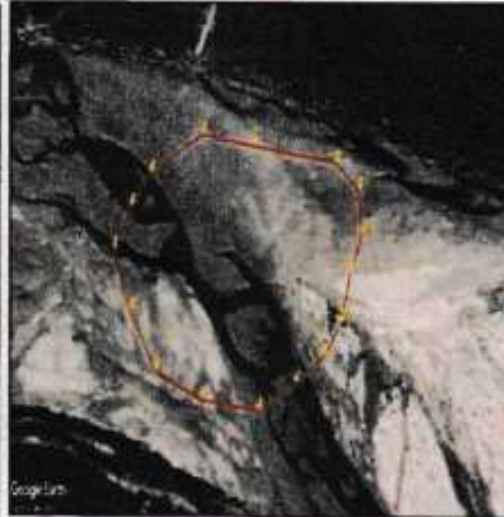
Area Allotted: 1.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 3)

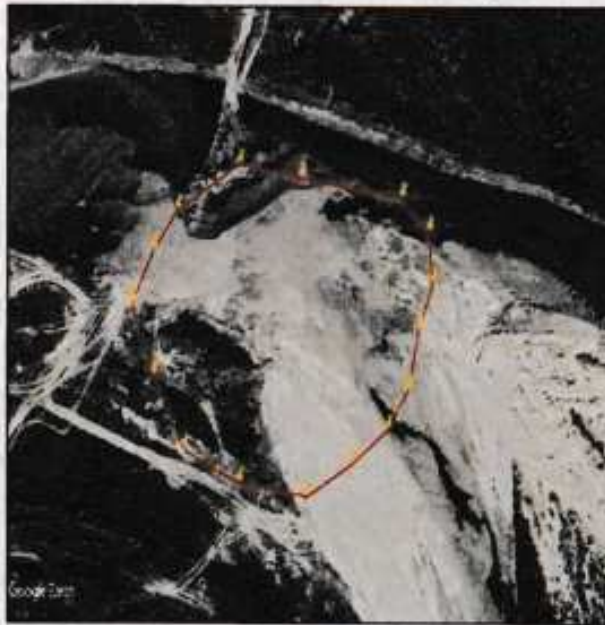
Google Image (different time scale with date):



Date of Acquisition: 07.01.2016



Date of Acquisition: 18.10.2019



Date of Acquisition: 02.11.2022

Minerals: Sand, Gravel, Boulder, Ordinary Clay

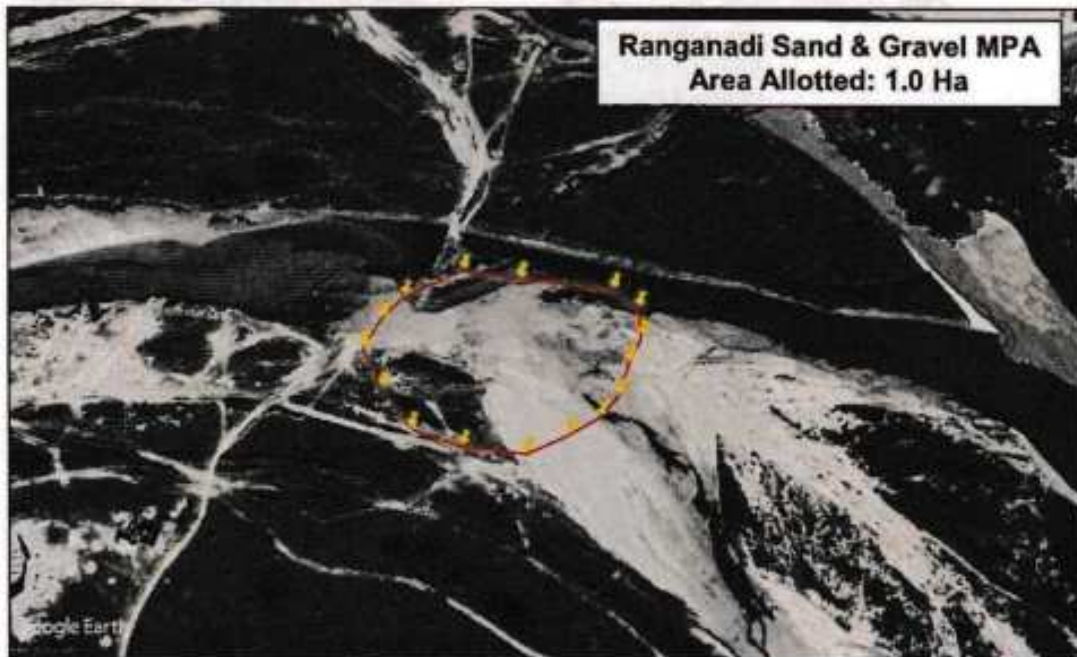
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Ranganadi Sand & Gravel MPA

Area Allotted: 4.84 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 4)

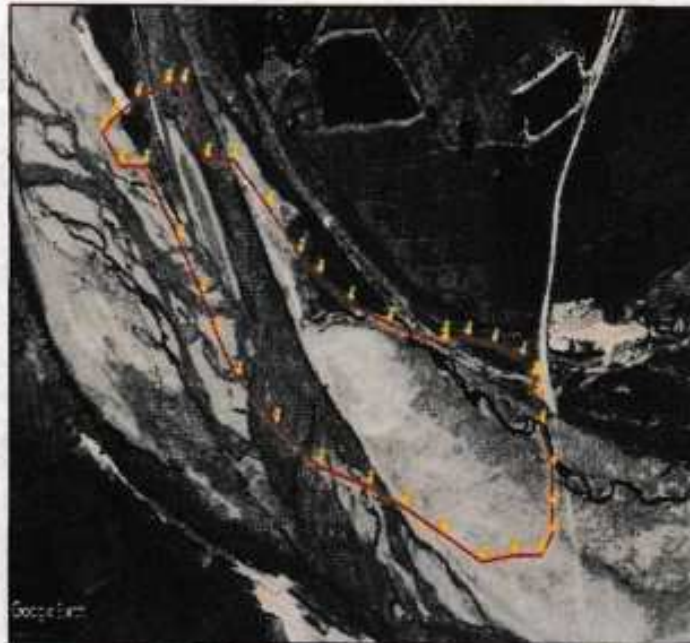
Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 28.03.2019



Date of Acquisition: 02.11.2022

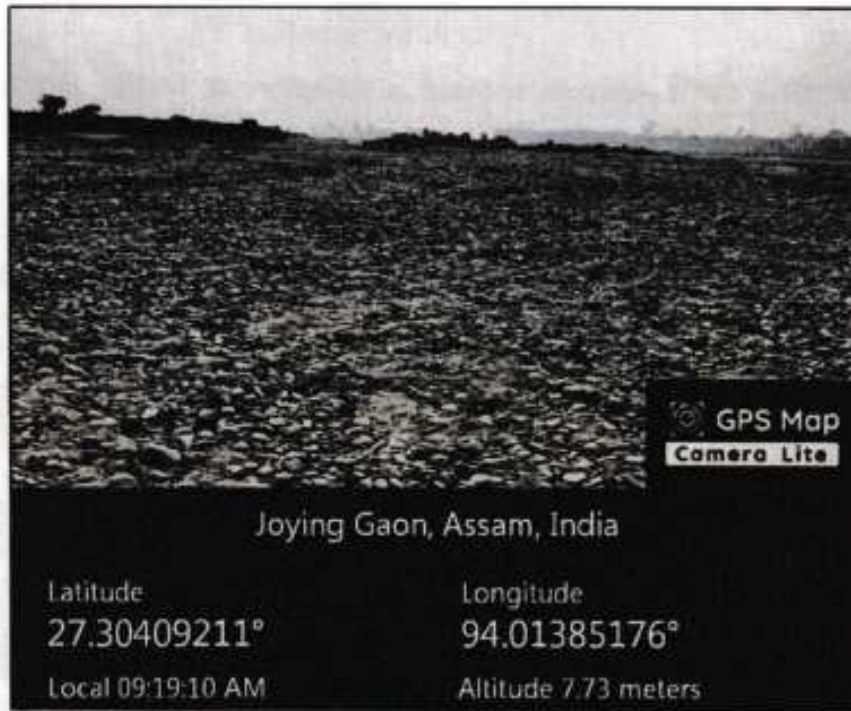
Minerals: Sand, Gravel, Boulder, Ordinary Clay

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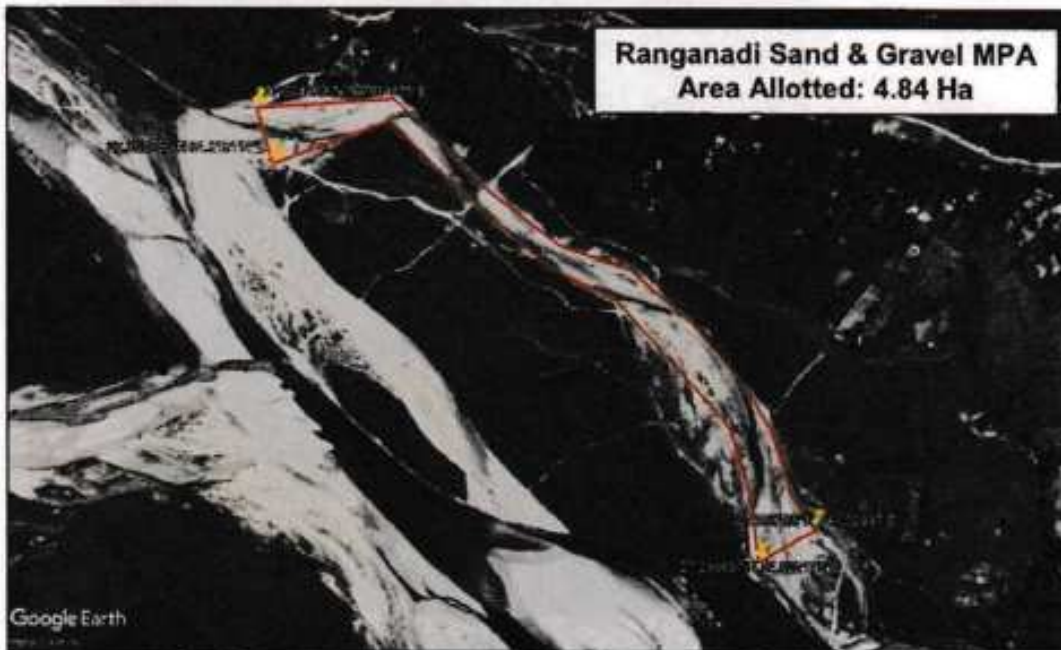
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Ranganadi Sand & Gravel MCA

Area Allotted: 4.95 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 5)

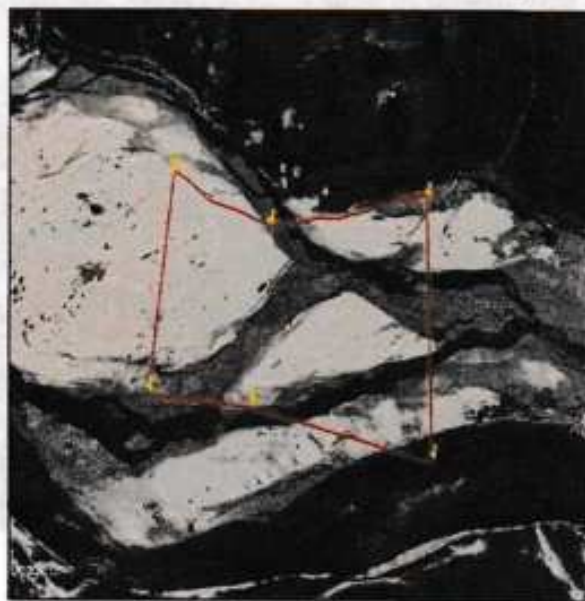
Google Image (different time scale with date):



Date of Acquisition: 9.12.2016



Date of Acquisition: 1.09.2019



Date of Acquisition: 2.11.2022

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photographs:

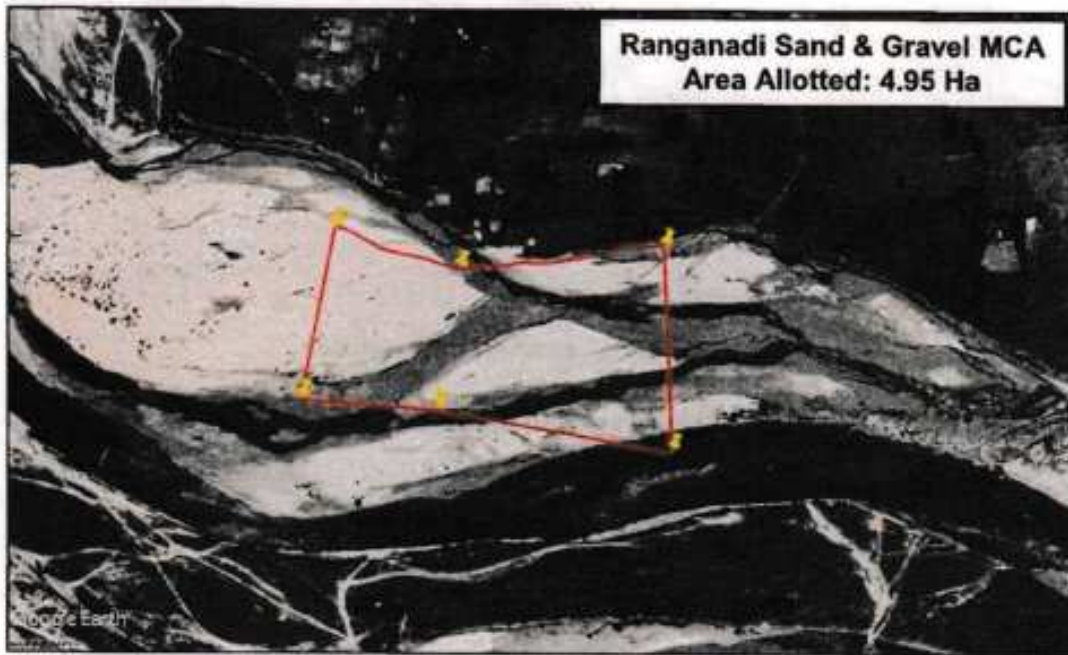


Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
4.95 Ha Ranganadi Sand & Gravel MCA**

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075



Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Three samples from different location are tested

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1	0	28.11	67.42	4.47
Sample2	0	56.87	40.94	2.19
Sample3	0	46.7	48.57	4.73

From analysis of three samples on weight basis it is broadly classified as

Aggregate Type	Distribution In % by weight
Boulder	0
Gravel	43.89
Sand	52.31
Silt	3.79

Loose density of Gravel . = 1.46 Ton/m³
 Loose density of Sand . = 1.44 Ton/m³
 Loose density of Silt . = 1.42 Ton/m³

Aggregate Type	Aggregate Distribution Proportion				Rounded to
	Proportion by weight		Proportion by Volume		
	In %	In ratio	In ratio	In %	
Boulder	0	0.00	0.00	0.00	0
Gravel	43.89	1.00	0.68	43.53	43
Sand	52.31	1.19	0.83	52.60	53
Silt	3.79	0.09	0.06	3.86	4

Aggregate Type	Distribution In % by Volume
Boulder	0
Gravel	43
Sand	53
Silt	4



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 4.95 HA RANGANADI SAND & GRAVEL MINING PERMIT AREA

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	3612	7.79	7.79	92.21
20	3980	8.59	16.38	83.62
4.75	5439	11.73	28.11	71.89
0.075	31249	67.42	95.53	4.47
Pan	2072			
Total	46362			

% Boulder = 0.00 %
 % Gravel = 28.11 %
 % Sand = 67.42 %
 % Silt = 4.47 %



Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 4.95 HA RANGANADI SAND & GRAVEL MINING PERMIT AREA

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	7955	10.68	10.68	89.32
20	15841	21.28	31.96	68.04
4.75	18547	24.91	56.87	43.13
0.075	30484	40.94	97.81	2.19
Pan	1627			
Total	74454			

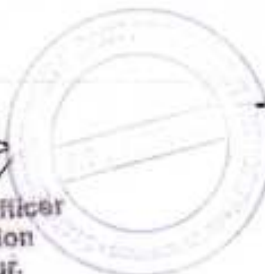
% Boulder = 0.00 %
 % Gravel = 56.87 %
 % Sand = 40.94 %
 % Silt = 2.19 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 4.95 HA RANGANADI SAND & GRAVEL MINING PERMIT AREA

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	4028	7.23	7.23	92.77
20	7803	14.01	21.24	78.78
4.75	14184	25.46	46.70	53.30
0.075	27052	48.56	95.27	4.73
Pan	2637			
Total	55704			

% Boulder = 0.00 %
 % Gravel = 46.70 %
 % Sand = 48.57 %
 % Silt = 4.73 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Division Forest Officer
 Lakhimpur Division
 North Lakhimpur





IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Sample 1



Sample 2



Sample 3



Site Photo Graphs

Site : 4.95 HA RANGANADI SAND & GRAVEL MINING PERMIT AREA

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur

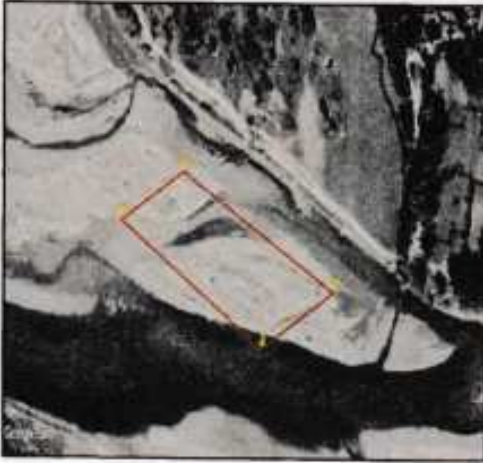


Upper Dikrong Sand & Gravel MPA

Area Allotted: 2.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 6)

Google Image (different time scale with date):



Date of Acquisition: 3.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay,

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Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Lakhimpur Division
North Lakhimpur.

Lower Dikrong-Parbatipur Sand & Gravel MPA

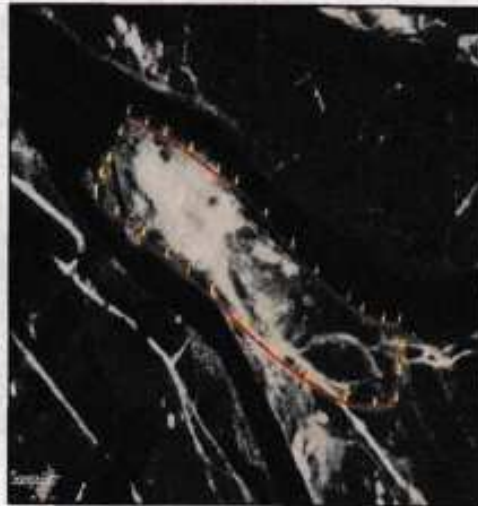
Area Allotted: 2.2 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 7)

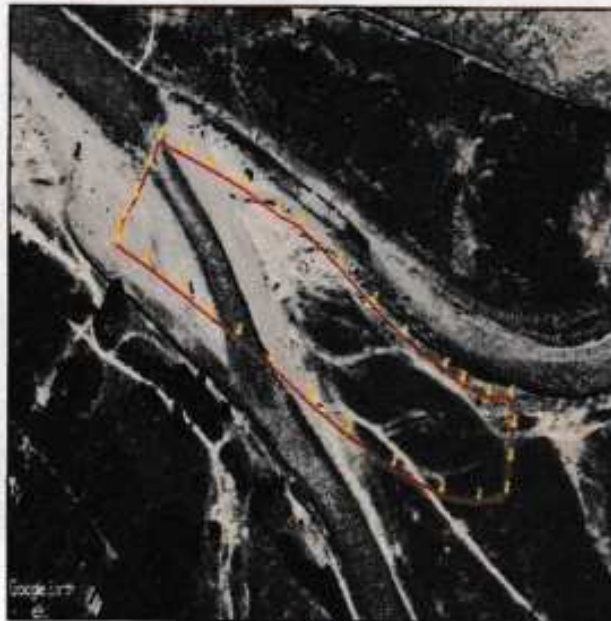
Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:

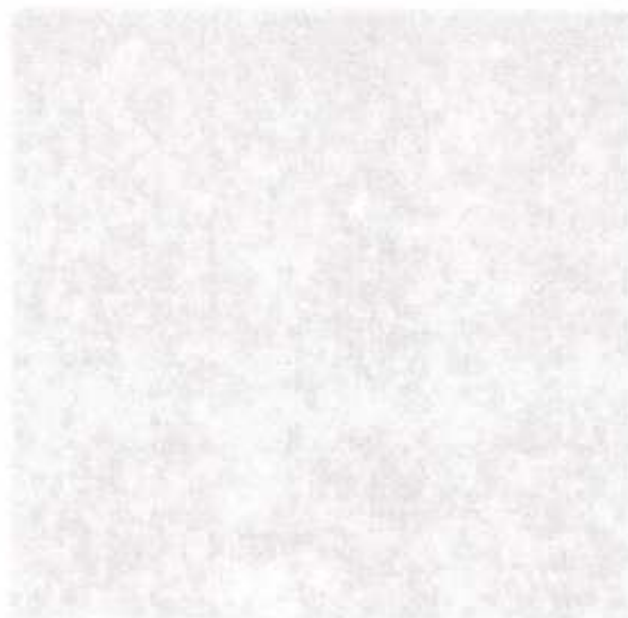


Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay,

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Dikrong Sand & Gravel MPA

Area Allotted: 2.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 8)

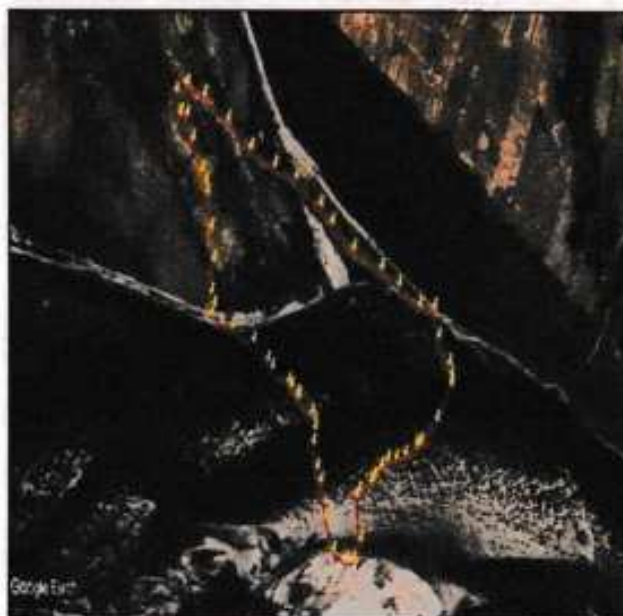
Google Image (different time scale with date):



Date of Acquisition: 17.12.2017



Date of Acquisition: 04.01.2021



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Visit Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

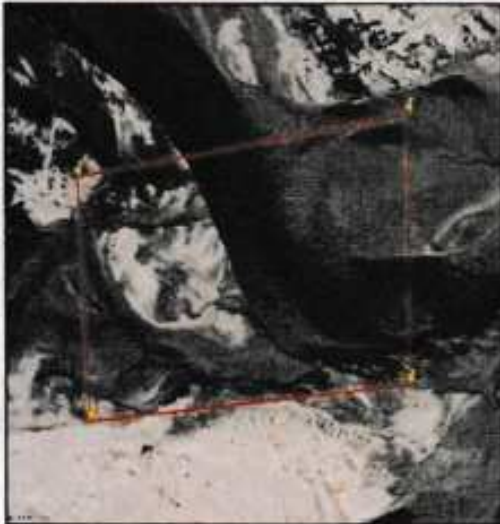


5 No. Pithaguri Sand & Gravel MPA

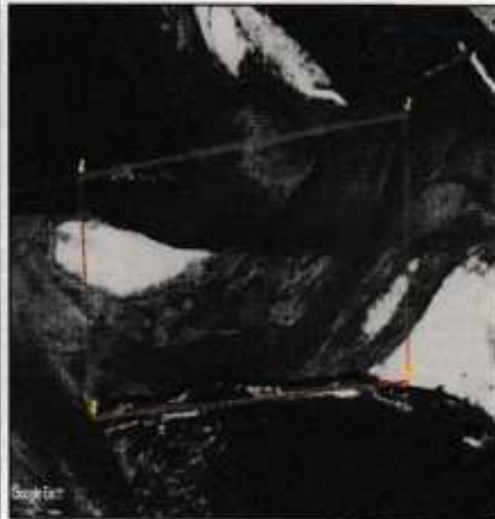
Area Allotted: 2.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 10)

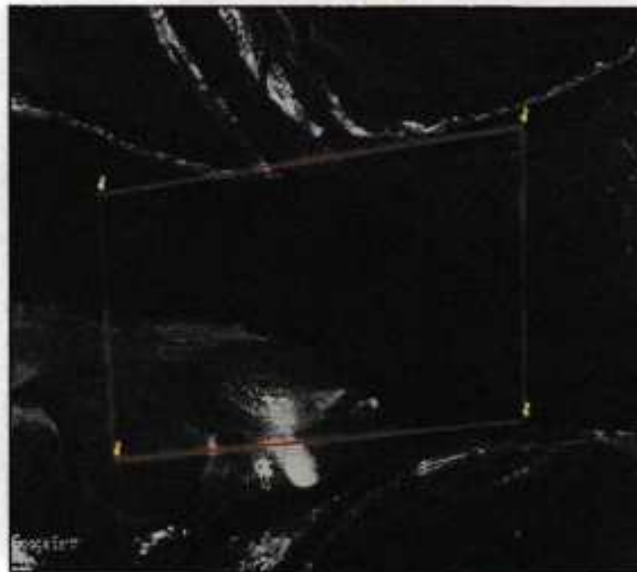
Google Image (different time scale with date):



Date of Acquisition: 17.12.2017



Date of Acquisition: 4.01.2021



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

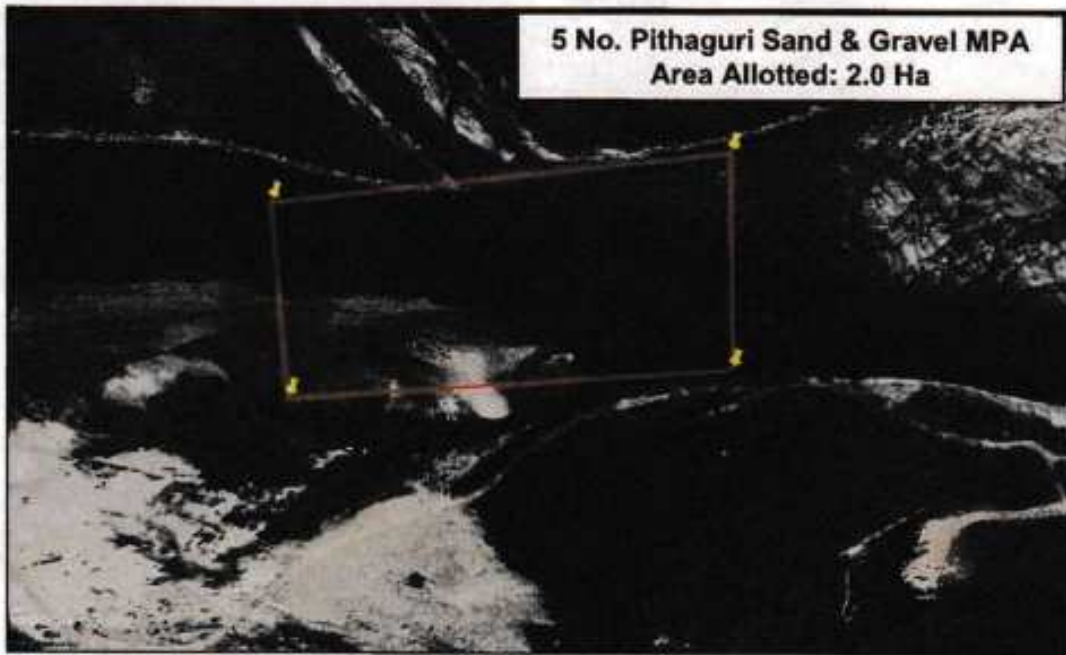
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Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
5 No. Pithaguri Sand & Gravel MPA**

Site : 2.0 Ha 5 No. Pithaguri Sand & Gravel Mining Permit Area

Distribution percentage of aggregate particle like gravel, sand, silt etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Methodology for determination of particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Amount of soil retained on each sieve size is calculated as % retained
- v) Cumulative % weight retained against each sieve size is then calculated.
- vi) % finer against each sieve is calculated as $(100 - \text{Cum \% weight retained against each sieve})$

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075

Three samples from different location are tested

Sample No	% Gravel	% Sand	% Silt
Sample1	47.41	50.90	1.69
Sample2	48.7	49.3	2.0

From analysis of three samples it is broadly classified on % in weight as

% Gravel = 48%

% Sand = 50 %

% silt = 2 %



Calculation for Volumetric distributionLoose density of Gravel = 1.45 Ton/m³Loose density of Sand = 1.44 Ton/m³Loose density of Silt = 1.47 Ton/m³

Proportion of Silt : Sand : Gravel on weight = 2:50:48 = 1:25:24

Proportion of Silt : Sand : Gravel on Volume = (1/1.47) : (25/1.44) : (24/1.45)

= 0.68 : 17.36 : 16.5 = 1 : 25.5 : 24.26

Proportion of Silt : Sand : Gravel on Volume %

= $1 \times 100 / (1 + 25.5 + 24.26)$: $25.5 \times 100 / (1 + 25.5 + 24.26)$: $24.26 \times 100 / (1 + 25.5 + 24.26)$

= 1.95 : 49.9 : 47.47

Therefore % of Silt in Volume = 1.95 say 2%

% of Sand in Volume = 49.9 say 50%

% of Gravel in Volume = 47.7 say 48%

Volume basis distribution of aggregate

% Silt = 2%

% Sand = 50%

% Gravel = 48 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Location: 2.0 Ha 5 No. Pithaguri Sand & Gravel Mining Permit Area

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	2876	5.06	5.06	94.94
40	5671	9.98	15.04	84.96
20	4356	7.96	22.70	77.30
4.75	14045	24.71	47.41	52.59
0.075	26931	50.90	98.31	1.69
Pan	958			
Total	56837			

% Gravel = 47.41
 % Sand = 50.90
 % Silt = 1.69



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 2.0 Ha 5 No. Pithagari Sand & Gravel Mining Permit Area

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample 2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	2713	4.92	4.92	95.08
40	5712	10.35	15.27	84.73
20	4650	8.43	23.70	76.30
4.75	13783	25.00	48.70	51.30
0.075	27162	49.24	97.94	2.06
Pan	1136			
Total	55166			

% Gravel = 48.70
 % Sand = 49.30
 % Silt = 2.00



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.





IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used

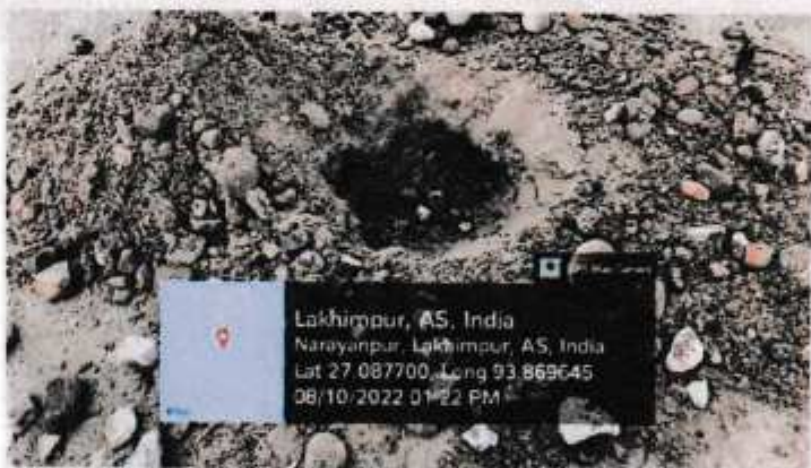


Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Sample1



Sample2



2.0 Ha 5 No. Pithaguri Sand & Gravel Mining Permit Area

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Lower Dikrong Sand & Gravel MCA

Area Allotted: 6.0 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 11)

Google Image (different time scale with date):



Date of Acquisition: 02.03.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Site Photographs:

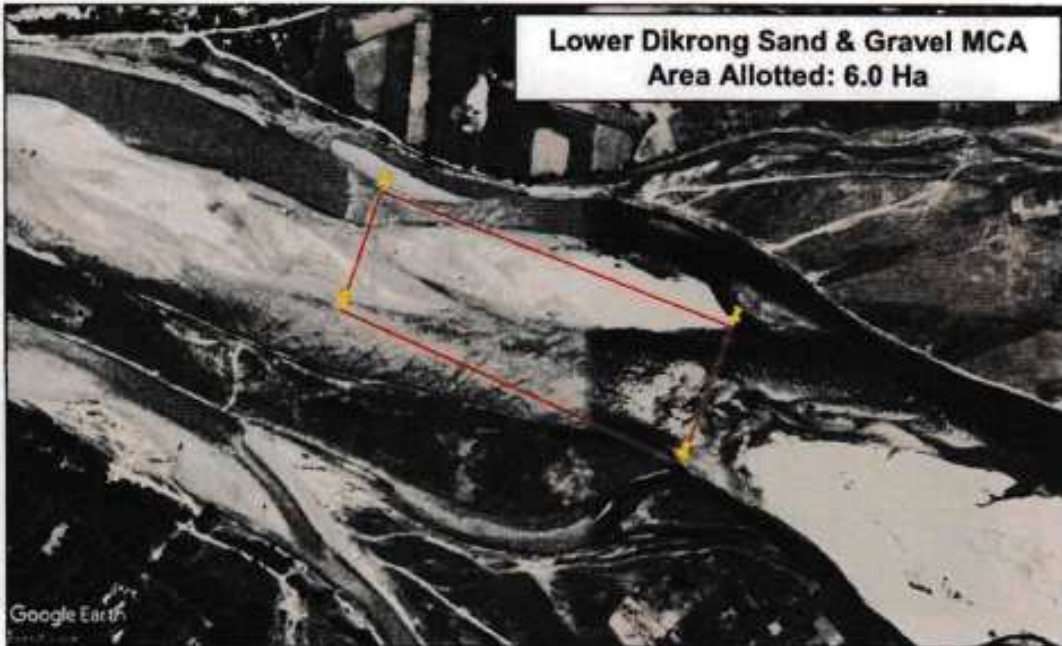


Minerals: Sand, Gravel, Boulder, Ordinary Clay


Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

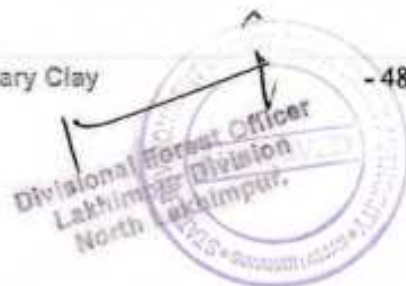


KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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**Report on
Gradation of Minor Minerals
Lower Dikrong Sand & Gravel Mining Contract Area**

Site : LOWER DIKRANG SAND & GRAVEL MINING CONTRACT AREA

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 (2007), Table 1 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-80
Gravel	80-4.75
Sand	4.75-0.075



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Three samples from different locations supplied by RQP are tested
Percentage distribution based on weight are as follows

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1	0	55.18	43.02	1.8
Sample2	0	50.27	49.2	0.53
Sample3	0	48.06	51.57	0.5
MEAN		51.17	47.93	0.94

From analysis of three samples on weight basis it is broadly classified as

Aggregate Type	Distribution in % by weight
Boulder	0
Gravel	51.17
Sand	47.93
Silt	0.94 Practically Nil

Loose density of Gravel = 1.48 Ton/m³
Loose density of Sand = 1.43 Ton/m³
Loose density of Silt = 1.42 Ton/m³

Aggregate Type	Aggregate Distribution Proportion				Rounded to
	Proportion by weight		Proportion by Volume		
	In %	In ratio	In ratio	In %	
Boulder	0	0.00	0.00	0.00	0
Gravel	51.17	1.00	0.68	50.29	50
Sand	47.93	0.94	0.66	48.75	50
Silt	0.94	0.02	0.01	0.96	0 Practically Nil

Aggregate Type	Distribution in % by Volume
Boulder	0
Gravel	50
Sand	50
Silt	0



Location : Lower Dikrang Sand & Gravel Mining Contract area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
80	0	0.00	0.00	100.00
20	4228	41.80	41.80	58.20
4.75	1354	13.38	55.18	44.82
0.075	4352	43.02	98.20	1.80
Pan	182			
Total	10116			

% Boulder = 0.00 %
 % Gravel = 55.18 %
 % Sand = 43.02 %
 % Silt = 1.80 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : Lower Dikrang Sand & Gravel Mining Contract area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
80	0	0.00	0.00	100.00
20	3192	23.67	23.67	76.33
4.75	3588	26.61	50.27	49.73
0.075	6634	49.19	99.47	0.53
Pan	72			
Total	13486			

% Boulder = 0.00 %
 % Gravel = 50.27 %
 % Sand = 49.20 %
 % Silt = 0.53 %



Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.

Location : Lower Dikrang Sand & Gravel Mining Contract area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
80	0	0.00	0.00	100.00
20	3160	18.95	18.95	81.05
4.75	4852.5	29.10	48.06	51.94
0.075	8597.5	51.57	99.63	0.37
Pan	62.5			
Total	16672.5			

% Boulder = 0.00 %
 % Gravel = 48.06 %
 % Sand = 51.57 %
 % Silt = 0.37 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.





IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Sample1



Sample2




Sample3



LOWER DIKRANG SAND & GRAVEL MINING CONTRACT AREA

Minerals: Sand, Gravel, Boulder, Ordinary Clay


Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



North Dikrong Sand & Gravel MCA

Area Allotted: 5.0 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 12)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

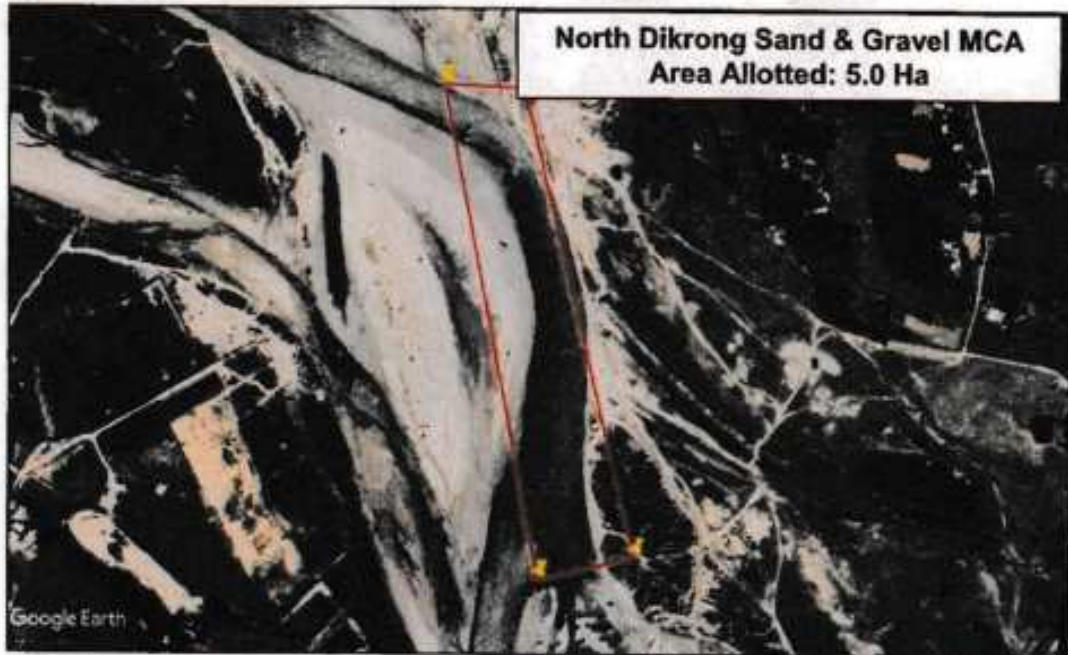
Minerals: Sand, Gravel, Boulder, Ordinary Clay



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
North Dikrong Sand & Gravel Mining Contract Area**

Site : North Dikrong Sand & Gravel Mining Contract Area

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075



Three samples from different location are tested

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1	0	43.67	48.75	7.58
Sample2	0	42.61	52.29	5.1
Sample3	0	38.36	49.38	12.26

From analysis of three samples on weight basis it is broadly classified as

Aggregate Type	Distribution In % by weight
Boulder	0
Gravel	41.54
Sand	50.14
Silt	8.31

Loose density of Gravel . = 1.46 Ton/m³
 Loose density of Sand . = 1.44 Ton/m³
 Loose density of Silt . = 1.42 Ton/m³

Aggregate Type	Aggregate Distribution Proportion				Rounded to
	Proportion by weight		Proportion by Volume		
	In %	In ratio	In ratio	In %	
Boulder	0	0.00	0.00	0.00	0
Gravel	41.54	1.00	0.68	41.16	41
Sand	50.14	1.21	0.84	50.37	50
Silt	8.31	0.20	0.14	8.47	9

Aggregate Type	Distribution In % by Volume
Boulder	0
Gravel	41
Sand	50
Silt	9



[Signature]
 Div. J. Anal Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : North Dikrong Sand & Gravel Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	2548	4.47	4.47	95.53
20	11469	20.11	24.58	75.42
4.75	10891	19.10	43.67	56.33
0.075	27802	48.75	92.42	7.58
Pan	4325			
Total	57035			

% Boulder = 0.00 %
 % Gravel = 43.67 %
 % Sand = 48.75 %
 % Silt = 7.58 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.

Location : North Dikrong Sand & Gravel Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	2165	3.49	3.49	96.51
20	12945	20.85	24.34	75.66
4.75	11348	18.28	42.61	57.39
0.075	32483	52.29	94.90	5.10
Pan	3167			
Total	62068			

% Boulder = 0.00 %
 % Gravel = 42.61 %
 % Sand = 52.29 %
 % Silt = 5.10 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : North Dikrong Sand & Gravel Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	2437	3.48	3.49	96.51
20	10926	15.63	19.12	80.88
4.75	13452	19.24	38.36	61.64
0.075	34521	49.38	87.74	12.26
Pan	6570			
Total	69906			

% Boulder = 0.00 %
 % Gravel = 38.36 %
 % Sand = 49.38 %
 % Silt = 12.26 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

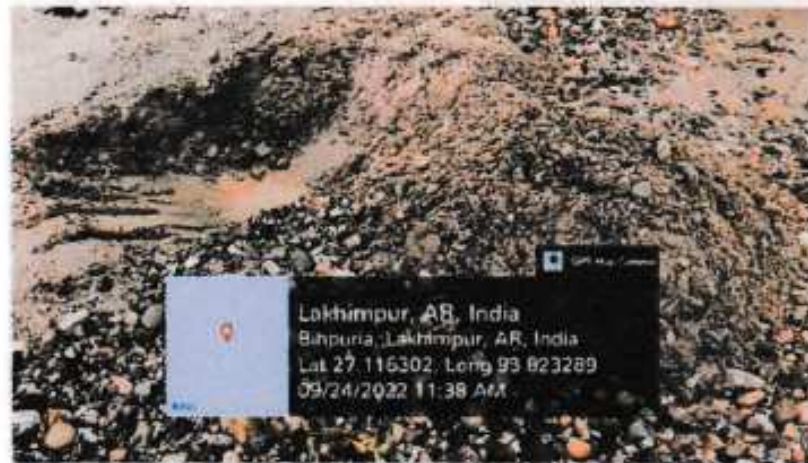
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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Sample 1



Sample 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

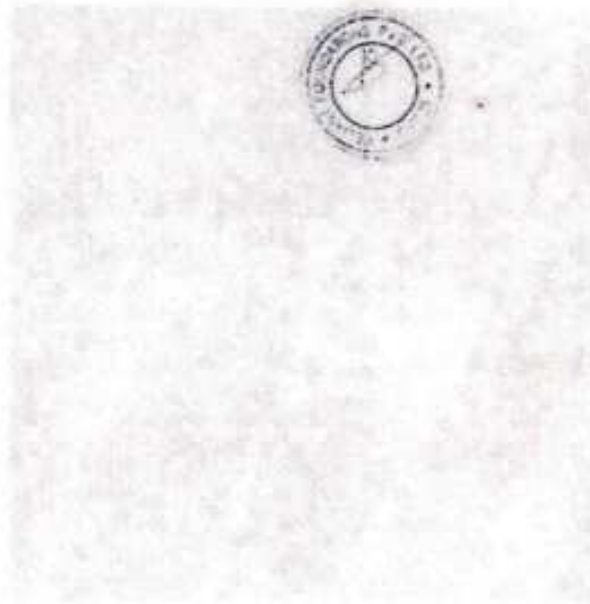




Sample 3

Site Photo

Name of the Mahal: North Dikrong Sand & Gravel Mining Contract Area



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Dikrong River Bagannalla MPA

Area Allotted: 1.82 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 14)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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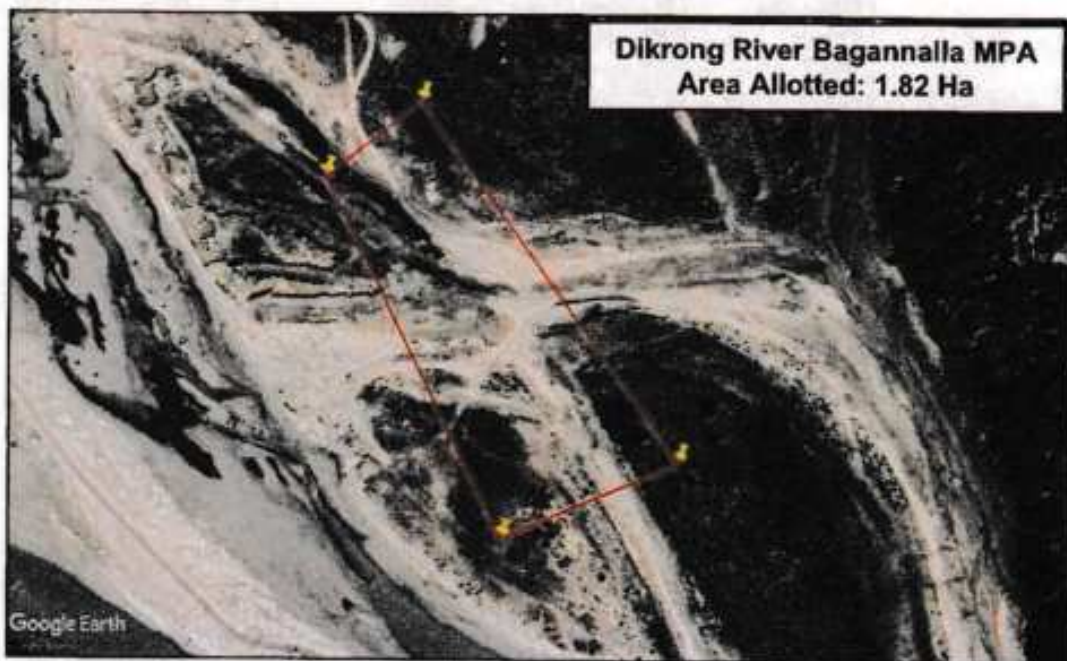
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur

APPROVED

Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

D. [Signature]
Sub Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
Dikrong River Bagannalla Mining Permit Area**

Name of the Mahal: 1.82 Ha Dikrong River Bagan Nallah Sand & Gravel Mining Permit Area

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075

Three samples from different location are tested

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1	0	36.83	54.01	9.16
Sample2	0	38.08	51.66	10.26
Average		37.46	52.84	9.71

From analysis of three samples on weight basis it is broadly classified as

Aggregate Type	Distribution in % by weight
Boulder	0
Gravel	37.46
Sand	52.84
Silt	9.71

Loose density of Gravel .- 1.46 Ton/m³
 Loose density of Sand .- 1.44 Ton/m³
 Loose density of Silt .- 1.42 Ton/m³

Aggregate Type	Aggregate Distribution Proportion				Rounded to
	Proportion by weight		Proportion by Volume		
	In %	In ratio	In ratio	In %	
Boulder	0	0.00	0.00	0.00	0
Gravel	37.46	1.00	0.68	37.08	37
Sand	52.84	1.41	0.98	53.03	53
Silt	9.71	0.26	0.18	9.88	10

Aggregate Type	Distribution in % by Volume
Boulder	0
Gravel	37
Sand	53
Silt	10



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Div. Head Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Name of the Mahal: 1.82 Ha Dikrong River Bagan Nallah Sand & Gravel Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	4162	16.50	16.50	83.50
4.75	5127	20.33	36.83	63.17
0.075	13621	54.01	90.84	9.16
Pan	2311			
Total	25221			

% Boulder = 0.00 %
 % Gravel = 36.83 %
 % Sand = 54.01 %
 % Silt = 9.16 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.

Name of the Mahal: 1.82 Ha Dikrong River Bagan Nallah Sand & Gravel Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	4571	16.74	16.74	83.26
4.75	5829	21.34	38.08	61.92
0.075	14109	51.66	89.74	10.26
Pan	2903			
Total	27312			

% Boulder = 0.00 %
 % Gravel = 38.08 %
 % Sand = 51.66 %
 % Silt = 10.26 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divis
 Lab
 North Lakhimpur.
 Forest Officer
 Lakhimpur Division
 North Lakhimpur.





IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Sample 1



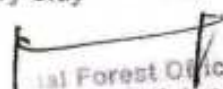
Sample 2



1.82 Ha Dikrong River Bagan Nallah Sand & Gravel Mining Permit Area

Site Photo

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Div.  District Forest Officer
Lakhimpur Division
North Lakhimpur.

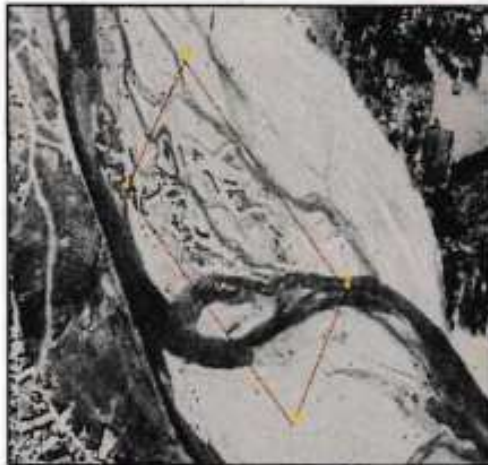


Dikrong Sand & Gravel MCA

Area Allotted: 10.0 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 15)

Google Image (different time scale with date):



Date of Acquisition: 3.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Site Photograph:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

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KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

2.0 Ha. Kathalguri Sand & Gravel Mining Permit Area

Area Allotted: 2.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 16)

Google Image (different time scale with date):



Date of Acquisition: 17.12.2017



Date of Acquisition: 04.01.2021



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

APPROVED
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Kananadi Sand & Gravel MPA

Area Allotted: 1.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 17)

Google Image (different time scale with date):



Date of Acquisition: 20.10.2018



Date of Acquisition: 03.12.2021



Date of Acquisition: 13.02.2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Div. ~~al~~ Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

APPROVED
STATE ENVIRONMENTAL PROTECTION
DIVISIONAL FOREST OFFICER
LAKHIMPUR DIVISION
NORTH LAKHIMPUR.

Kananadi Sand & Gravel MPA

Area Allotted: 0.68 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 18)

Google Image (different time scale with date):



Date of Acquisition: 28.10.2017



Date of Acquisition: 09.05.2020



Date of Acquisition: 05.09.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Division
Lakhimpur
Norin Lakhimpur

rest Officer
Division



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay



Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

**Report on
Gradation of Minor Minerals
Kananadi Sand & Gravel Mining Permit Area**

Site: Kananadi Sand & Gravel Mining Permit Area

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

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Three samples from different location are tested

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1		34.13	62.9	2.97
Sample2		37.5	58.27	4.23
Average		35.82	60.59	3.60

From analysis of three samples on weight basis it is broadly classified as

Aggregate Type	Distribution In % by weight
Boulder	0.00
Gravel	35.82
Sand	60.59
Silt	3.60

Loose density of Boulder := 1.45 Ton/m³
 Loose density of Gravel := 1.46 Ton/m³
 Loose density of Sand := 1.44 Ton/m³
 Loose density of Silt := 1.42 Ton/m³

Aggregate Type	Aggregate Distribution Proportion				Rounded to
	Proportion by weight		Proportion by Volume		
	In %	In ratio	In ratio	In %	
Boulder	0.00	0.00	0.00	0.00	0
Gravel	35.82	1.00	0.68	35.48	36
Sand	60.59	1.69	1.17	60.85	60
Silt	3.60	0.10	0.07	3.67	4

Aggregate Type	Distribution In % by Volume
Boulder	0
Gravel	36
Sand	60
Silt	4



Location : Kananadi Sand & Gravel Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	2042	9.67	9.67	90.33
20	2861	13.55	23.21	76.79
4.75	2306	10.92	34.13	65.87
0.075	13285	62.90	97.03	2.97
Pan	628			
Total	21122			

% Boulder = 0.00 %
 % Gravel = 34.13 %
 % Sand = 62.90 %
 % Silt = 2.97 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Division: Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : Kananañ Sand & Gravel Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	2165	8.83	8.83	91.17
20	2904	11.85	20.68	79.32
4.75	4122	16.82	37.50	62.50
0.075	14284	58.28	95.77	4.23
Pan	1036			
Total	24511			

% Boulder = 0.00 %
 % Gravel = 37.50 %
 % Sand = 58.27 %
 % Silt = 4.23 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
Lakhimpur.



Name: Kananadi Sand & Gravel Mining Permit Area



Sample 1



Sample 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Tramjuli Sand & Gravel MPA

Area Allotted: 0.98 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 19)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 14.05.2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
Tramjuli Sand & Gravel Mining Permit Area (outside RF)**

Site : Tramjuli Sand and Gravel Mining Permit Area (outside the R.F.) in Lakhimpur Division of North Lakhimpur District , Assam

Distribution percentage of aggregate particle like gravel, sand , silt etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Methodology for determination of particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Amount of soil retained on each sieve size is calculated as % retained
- v) Cumulative % weight retained against each sieve size is than calculated.
- vi) % finer against each sieve is calculated as $(100 - \text{Cum \% weight retained against each sieve})$

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075

Three samples from different location are tested

Sample No	% Gravel	% Sand	% Silt
Sample1	37.73	60.27	2.05
Sample2	38.34	59.68	1.98
Sample3	37.92	60.33	1.75

From analysis of three samples it is broadly classified on % in weight as

% Gravel = 38%

% Sand = 60 %

% silt =2 %



Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Calculation for Volumetric distributionLoose density of Gravel = 1.45 Ton/m³Loose density of Sand = 1.44 Ton/m³Loose density of Silt = 1.47 Ton/m³

Proportion of Silt : Sand : Gravel on weight = 2:60:38 = 1:30:19

$$\text{Proportion of Silt : Sand : Gravel on Volume} = (1/1.47) : (30/1.44) : (19/1.45)$$

$$= 0.68 : 20.83 : 13.10 = 1:30.63:19.26$$

Proportion of Silt : Sand : Gravel on Volume %

$$= 1 \times 100 / (1+30.63+19.26) : 30.63 \times 100 / (1+30.63+19.26) : 19.27 \times 100 / (1+30.63+19.26)$$

= 1.96:40.93:37.84

Therefore % of Silt in Volume = 1.96 say 2%

% of Sand in Volume = 60.18 say 60%

% of Boulder in Volume = 37.86 say 38%

Volume basis distribution of aggregate

%Silt = 2%

% Sand = 60%

% Gravel = 38 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Location: Tamjili Sand and Gravel Mining Permit Area (outside the R.F.)

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample 1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	623	1.22	1.22	98.78
40	3545	6.93	8.15	91.85
20	6432	12.58	20.74	79.26
4.75	8686	16.99	37.73	62.27
0.075	30785	60.22	97.95	2.05
Pan	1047			
Total	51118			

% Gravel = 37.73
 % Sand = 60.22
 % Silt = 2.05



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : Traajuli Sand and Gravel Mining Permit Area (outside the R.F.)

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample 2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	617	1.18	1.18	98.82
40	3823	7.31	8.48	91.52
20	6581	12.58	21.06	78.94
4.75	9043	17.28	38.34	61.66
0.075	31232	59.68	66.02	1.98
Pan	1038			
Total	52332			

% Gravel = 38.34
 % Sand = 59.68
 % Silt = 1.98



Minerals: Sand, Gravel, Boulder, Ordinary Clay



Location : Trajuli Sand and Gravel Mining Permit Area (outside the R.F.)

SIEVE ANALYSIS OF minor mineral MATERIAL

Sample3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing
300	0	0.00	0.00	100.00
75	803	1.54	1.54	98.46
40	4012	7.70	9.25	90.75
20	6174	11.85	21.10	78.90
4.75	8759	16.82	37.92	62.08
0.075	31423	60.33	98.25	1.75
Pan	910			
Total	52081			

% Gravel = 37.92
 % Sand = 60.33
 % Silt = 1.75



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.





IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Sample1



Sample2



Sample3

Tramjuli Sand and Gravel Mining Permit Area (outside the R.F.)



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

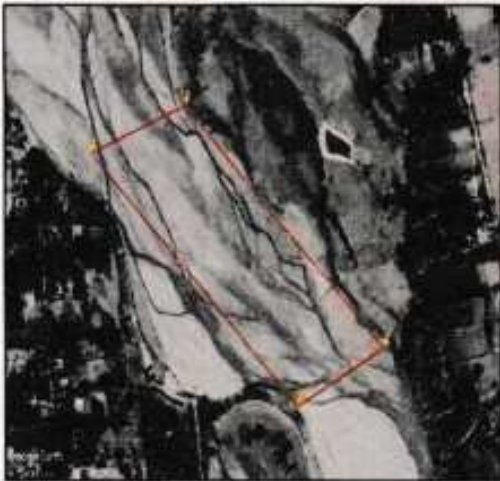


Durpang Sand & Gravel MCA

Area Allotted: 5.2 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 20)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 14.05.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

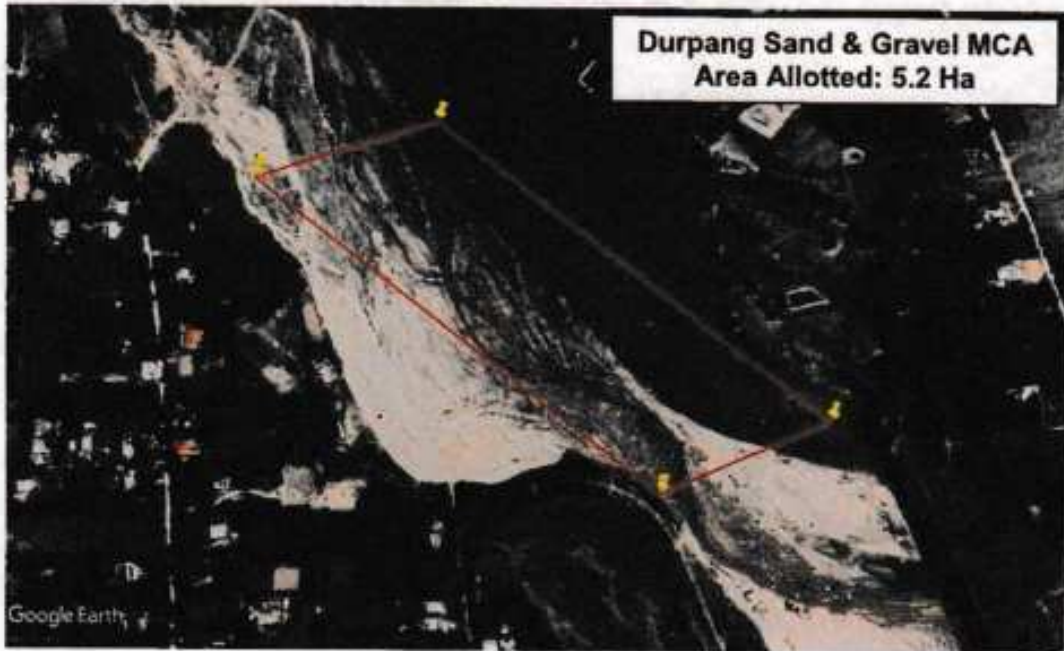
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Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Bogoli Sand & Gravel MCA

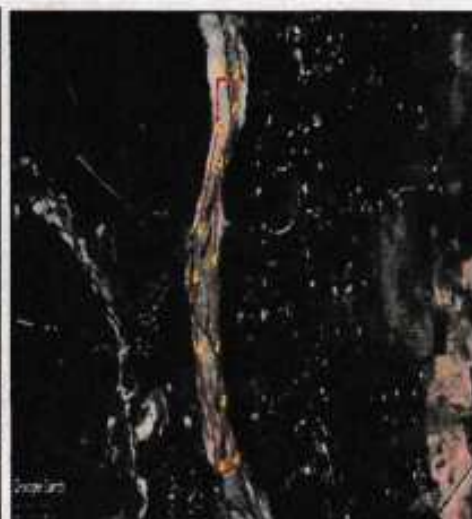
Area Allotted: 3.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 21)

Google Image (different time scale with date):



Date of Acquisition: 3.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 5.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

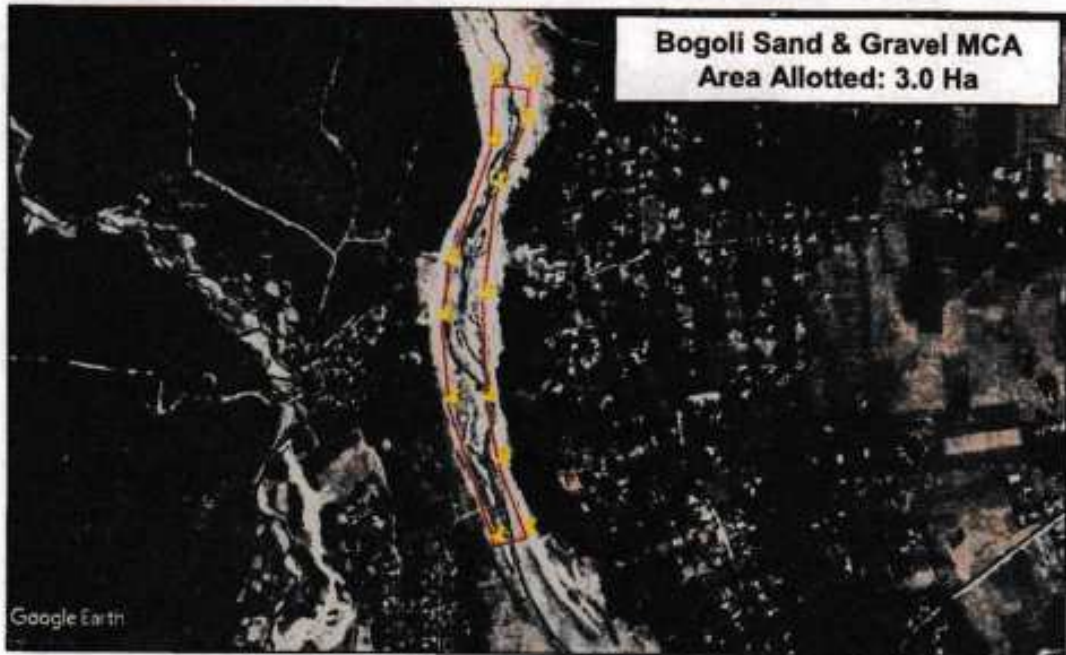
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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Bogoli Sand & Gravel MPA

Area Allotted: 1.3 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 22)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 5.12.2023

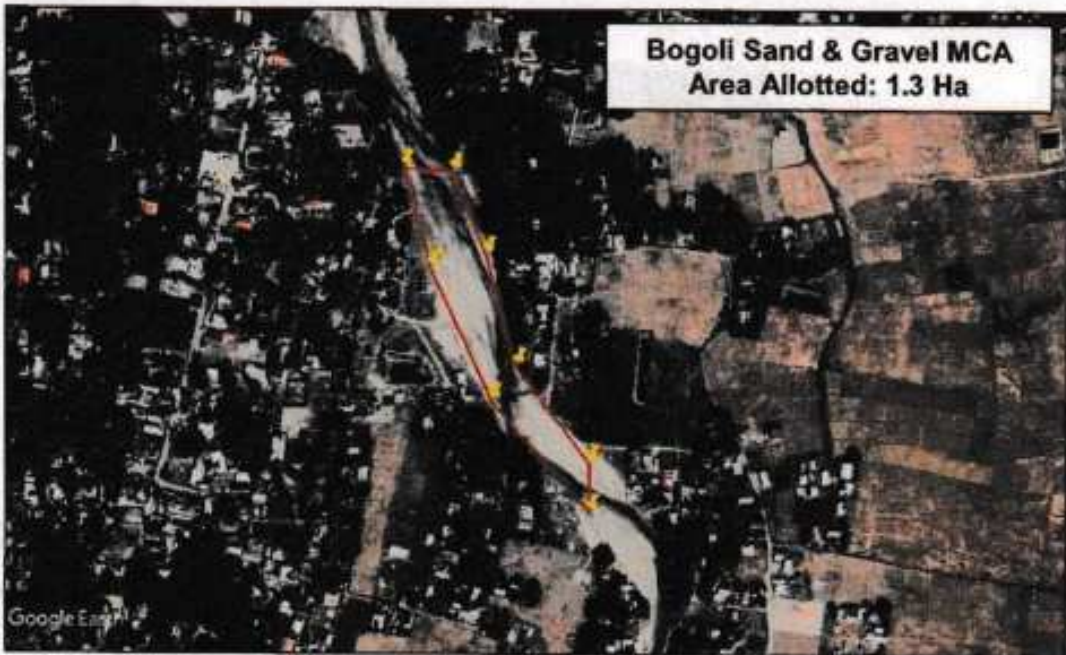
Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Singra Sand & Gravel MCA

Area Allotted: 6.0 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 23)

Google Image (different time scale with date):



Date of Acquisition: 9.12.2016



Date of Acquisition: 5.12.2023



Date of Acquisition: 5.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay



Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Durpang (Lower) Sand & Gravel MPA

Area Allotted: 1.91 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 24)

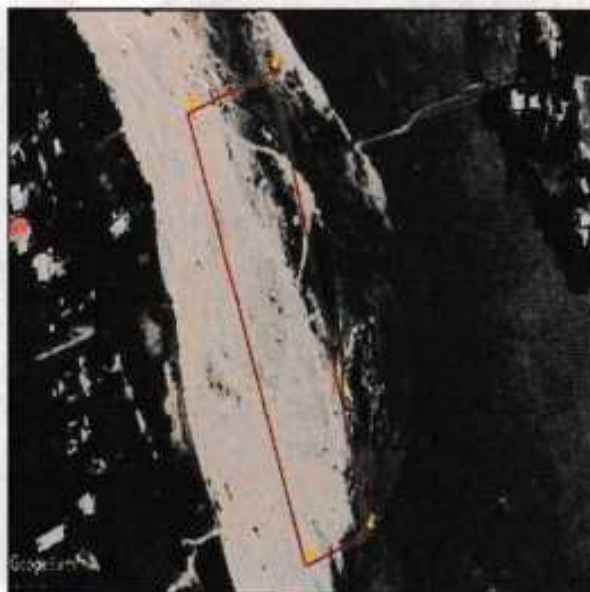
Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 14.05.2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

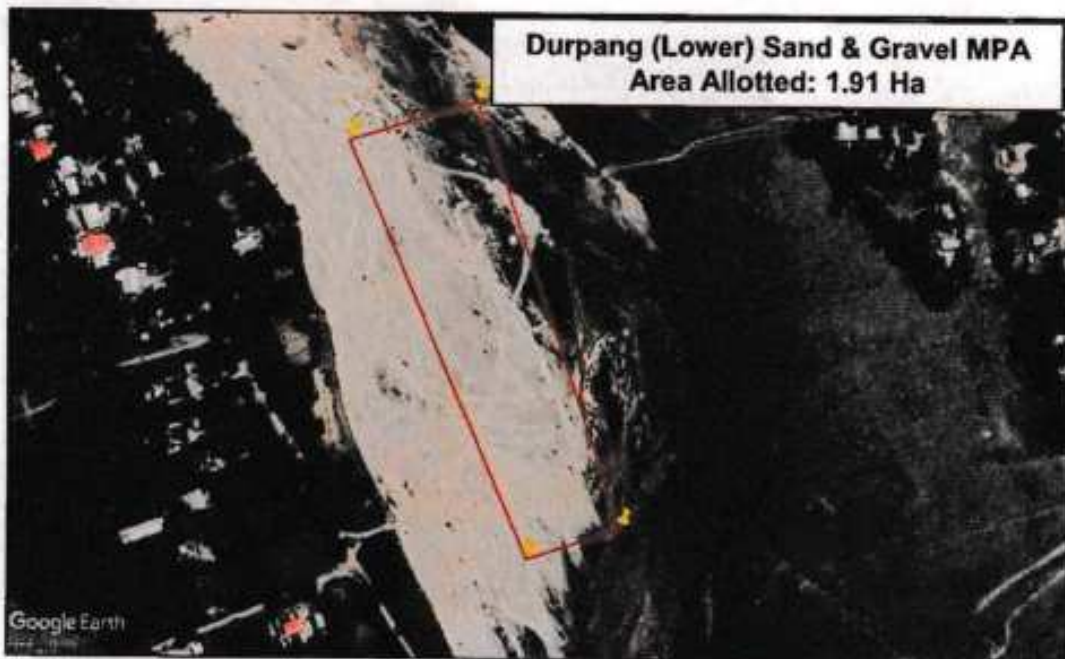
- 540 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photographs:



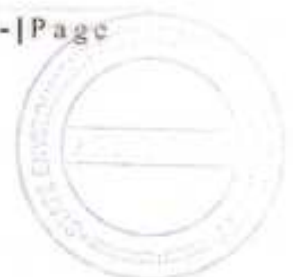
KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

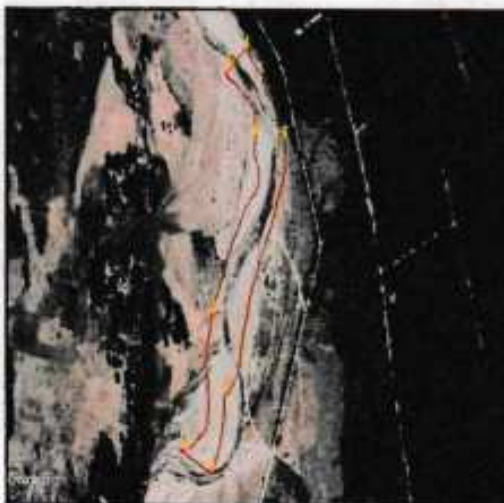


Joyhing Sand & Gravel MCA

Area Allotted: 4.9 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.3 (Sl. No. 25)

Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 28.03.2019



Date of Acquisition: 14.05.2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Site Photographs:

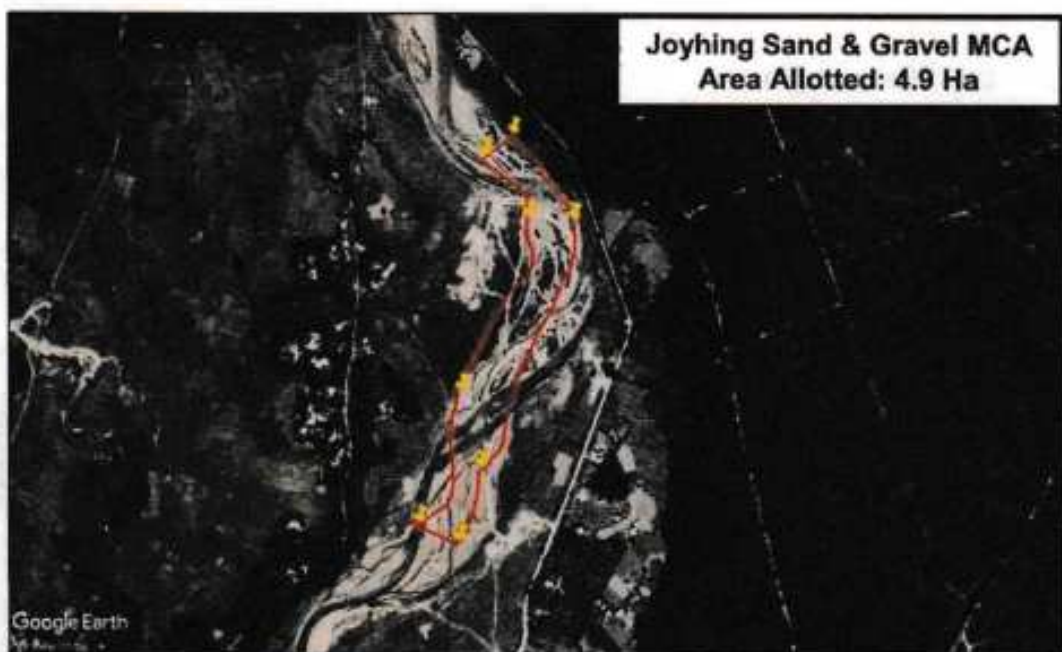


Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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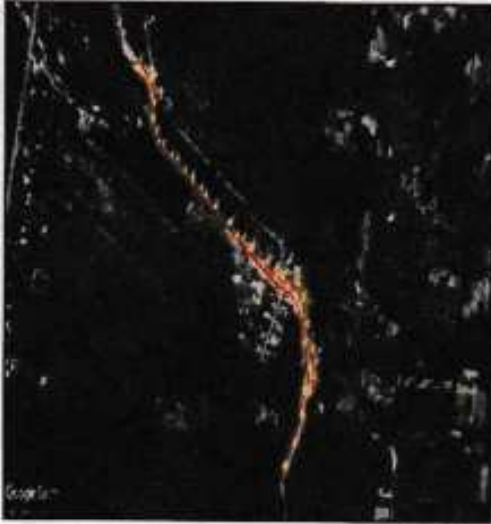
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Baghinijan Mining Permit Area (Outside R.F.)

Area Allotted: 0.90 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.3 (Sl. No. 26)

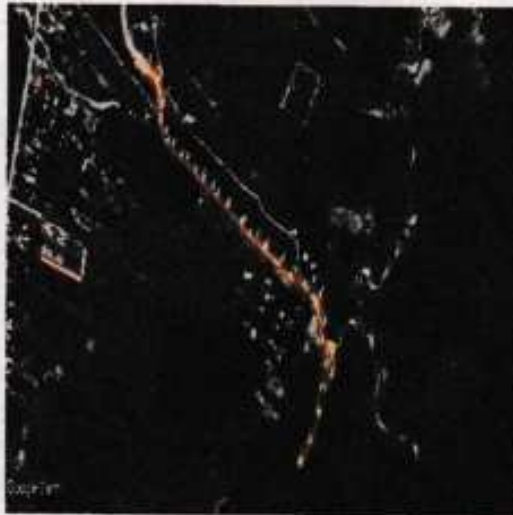
Google Image (different time scale with date):



Date of Acquisition: 28.10.2017



Date of Acquisition: 17.03.2020



Date of Acquisition: 05.09.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:

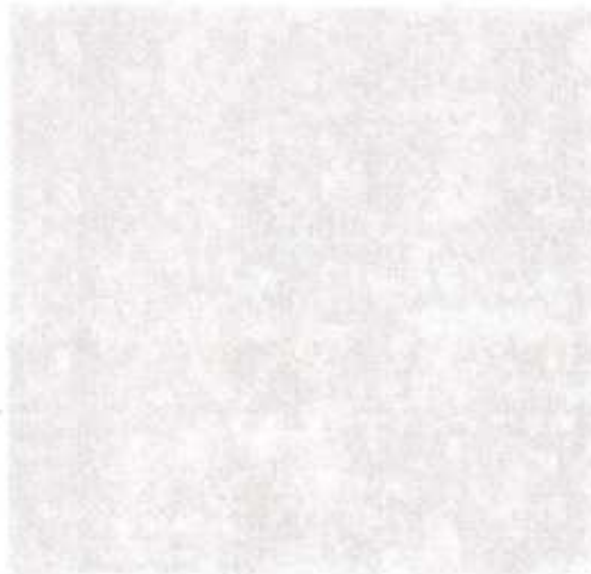


Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur

STATE ELECTORAL COMMISSION

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Lower Dikrong Meneha Sand, Gravel & Boulder MPA

Area Allotted: 1.47 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.4 (Sl. No. 1)

Google Image (different time scale with date):



Date of Acquisition: 17.12.2017



Date of Acquisition: 04.01.2021



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Gomari Nala Sand, Gravel & Boulder MPA

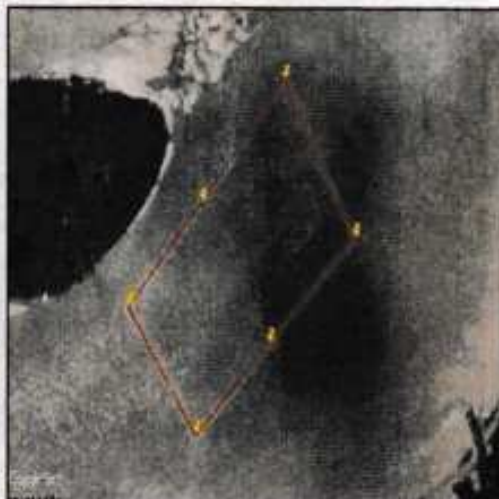
Area Allotted: 3.0 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.4 (Sl. No. 2)

Google Image (different time scale with date):



Date of Acquisition: 28.12.2016



Date of Acquisition: 03.08.2019



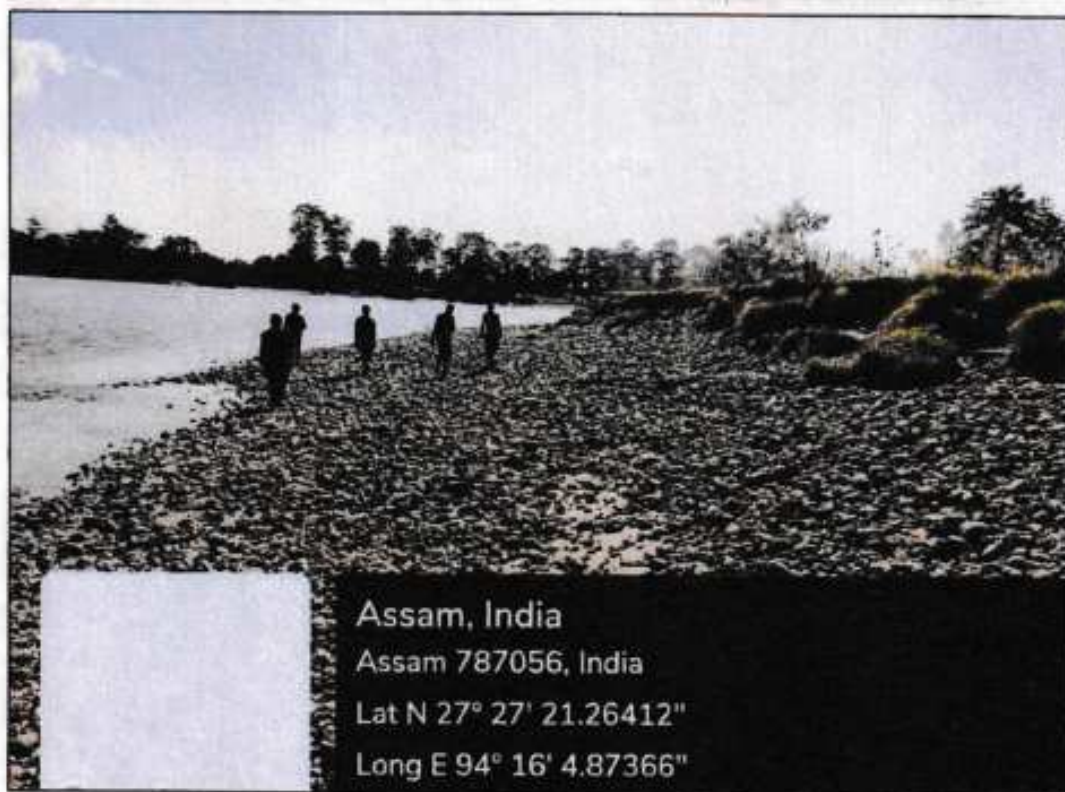
Date of Acquisition: 19.10.2022

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photographs:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
Gomari Nala Sand, Gravel & Boulder Mining Permit Area**

Site: 2.97 Ha Gomari Nala Sand, Gravel & Boulder Mining Permit Area

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

<i>Designation</i>	<i>Size (mm)</i>
<i>Boulder</i>	<i>Above 300</i>
<i>Cobble</i>	<i>300-75</i>
<i>Gravel</i>	<i>75-4.75</i>
<i>Sand</i>	<i>4.75-0.075</i>



Divisional Forest Officer
 Lakhimpur Division
 Lakhimpur.

Three samples from different location are tested

Sample No	% Boulder	% Gravel	% Sand	% Silt
Sample1	28.37	29.13	40.18	2.32
Sample2	21.89	37.52	36.18	4.94
Sample3	23.55	42.81	30.58	3.76
Average	24.60	36.49	35.65	3.67

From analysis of three samples on weight basis it is broadly classified as

Aggregate Type	Distribution In % by weight
Boulder	24.6
Gravel	36.49
Sand	35.65
Silt	3.67

Loose density of Boulder . = 1.45 Ton/m³
 Loose density of Gravel . = 1.46 Ton/m³
 Loose density of Sand . = 1.44 Ton/m³
 Loose density of Silt . = 1.42 Ton/m³

Aggregate Type	Aggregate Distribution Proportion				Rounded to
	Proportion by weight		Proportion by Volume		
	In %	In ratio	In ratio	In %	
Boulder	24.6	1.00	0.69	24.48	25
Gravel	36.49	1.48	1.02	36.07	36
Sand	35.65	1.45	1.01	35.72	36
Silt	3.67	0.15	0.11	3.73	3

Aggregate Type	Distribution In % by Volume
Boulder	25
Gravel	36
Sand	36
Silt	3



Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.

Location : 2.97 Ha Gomari Nala Sand, Gravel & Boulder Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	11348	28.37	28.37	71.63
75	1153	2.88	31.25	68.75
20	5732	14.33	45.58	54.42
4.75	4789	11.92	57.50	42.50
0.075	16234	40.58	98.09	1.91
Pan	765			
Total	40001			

% Boulder = 28.37 %
 % Gravel = 29.13 %
 % Sand = 40.18 %
 % Silt = 2.32 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location : 2.97 Ha Gomari Nala Sand, Gravel & Boulder Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	6211	21.36	21.36	78.64
75	3601	12.39	33.75	66.25
20	3490	12.00	45.75	54.25
4.75	3817	13.13	58.88	41.12
0.075	10521	36.19	95.06	4.94
Pan	1435			
Total	29075			

% Boulder = 21.36 %
 % Gravel = 37.52 %
 % Sand = 36.18 %
 % Silt = 4.94 %



Location : 2.97 Ha Gomari Nala Sand, Gravel & Boulder Mining Permit Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	7476	23.55	23.55	76.45
75	4428	13.95	37.50	62.50
20	5654	17.81	55.31	44.69
4.75	3509	11.05	66.36	33.64
0.075	9643	30.38	96.74	3.26
Pan	1038			
Total	31746			

% Boulder = 23.55 %
 % Gravel = 42.81 %
 % Sand = 30.38 %
 % Silt = 3.26 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Div: Forest Officer
 Lakhimpur Division
 North Lakhimpur.





IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur

Name: 2.97 Ha Gomari Nala Sand, Gravel & Boulder Mining Permit Area



Sample 1



Sample 2



Sample 3

Site Photo

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Div: *Hij* Forest Officer
Lakhimpur Division
North Lakhimpur.



Bhimpara Sand, Gravel & Ordinary Clay/ Silt MCA

Area Allotted: 9.0 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.5 (Sl. No. 1)

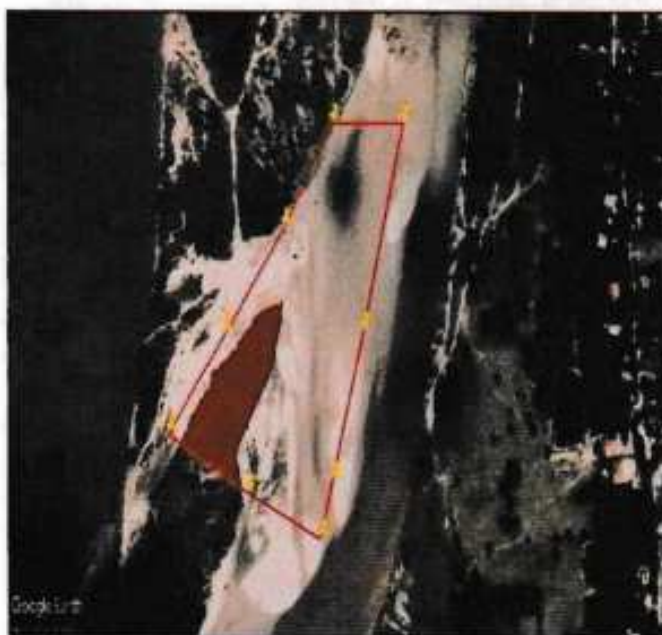
Google Image (different time scale with date):



Date of Acquisition 28.12.2016



Date of Acquisition: 06.01.2019



Date of Acquisition: 19.10.2022

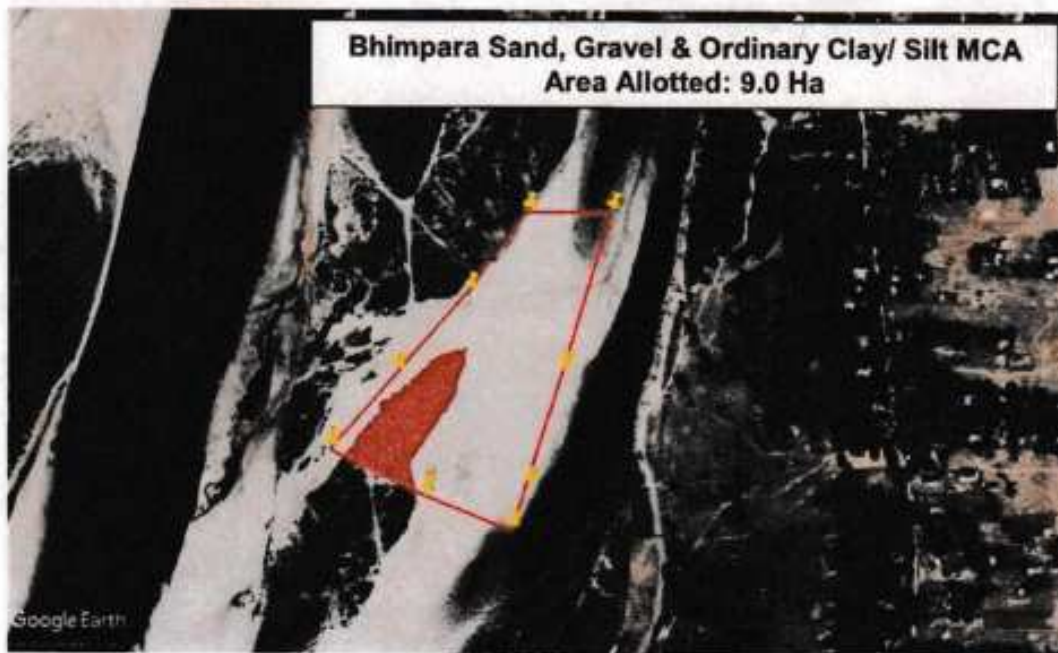
Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.
APPROVED

Site Photographs:

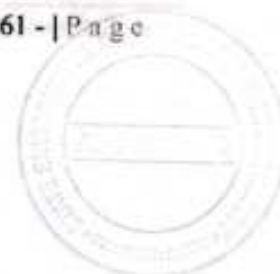


KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



**Report on
Gradation of Minor Minerals
Bhimpara Sand, Gravel & Ordinary Clay/ Silt MCA**

Site : Bhimpara Sand, Gravel & Earth Mining Contract Area

Distribution percentage of aggregate particle like Boulder, gravel sand etc present in naturally occurred quarry is determined through Sieve analysis.

It is done as per IS 2386-Part 1.

Procedure to determine particle size distribution of Aggregates.

- i) The test sample is dried to a constant weight at a temperature of $110 \pm 5^\circ\text{C}$ and weighed.
- ii) The sample is sieved by using a set of IS Sieves.
- iii) On completion of sieving, the material on each sieve is weighed.
- iv) Cumulative weight passing through each sieve is calculated as a percentage of the total sample weight.

Classification of aggregate as per IS 1498-1970 are as follows

Designation	Size (mm)
Boulder	Above 300
Cobble	300-75
Gravel	75-4.75
Sand	4.75-0.075



Minerals: Sand, Gravel, Boulder, Ordinary Clay



Location Bhimpara Sand, Gravel & Earth Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 1

Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	7689	21.18	21.18	78.82
20	8211	22.62	43.81	56.19
4.75	8318	17.41	61.21	38.79
0.075	8902	24.53	85.74	14.26
Pan	5176			
Total	36296			

% Boulder = 0.00 %
 % Gravel = 61.21 %
 % Sand = 24.53 %
 % Silt = 14.26 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location :Bhimpara Sand, Gravel & Earth Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 1

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	7689	21.18	21.18	78.82
20	8211	22.62	43.81	56.19
4.75	8318	17.41	61.21	38.79
0.075	8902	24.53	85.74	14.26
Pan	5176			
Total	36296			

% Boulder = 0.00 %
 % Gravel = 61.21 %
 % Sand = 24.53 %
 % Silt = 14.26 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur



Location :Bhimpara Sand, Gravel & Earth Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 2

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	4243	13.48	13.48	86.54
20	8032	19.13	32.58	87.42
4.75	4571	14.50	47.08	52.92
0.075	11761	37.30	84.38	15.62
Pan	4927			
Total	31634			

% Boulder = 0.00 %
 % Gravel = 47.08 %
 % Sand = 37.30 %
 % Silt = 15.62 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



Location :Bhimpara Sand, Gravel & Earth Mining Contract Area

SIEVE ANALYSIS OF MINOR MINERAL MATERIAL

Sample 3

Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	6629	20.54	20.54	79.46
20	5158	15.99	36.53	63.47
4.75	3764	11.67	48.20	51.80
0.075	7359	22.81	71.00	29.00
Pan	9356			
Total	32266			

% Boulder = 0.00 %
 % Gravel = 48.20 %
 % Sand = 22.80 %
 % Silt = 29.00 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



IS Sieves



Digital Balance



Hot Air Oven

Photograph of Equipment Used



Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Sample 1



Sample 2



Sample 3

Name of the Mahal: Bhimpara Sand, Gravel & Earth Mining Contract Area

Site Photo

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Dikrong River Merbil Sand, Gravel & Ordinary Clay/ Silt MPA

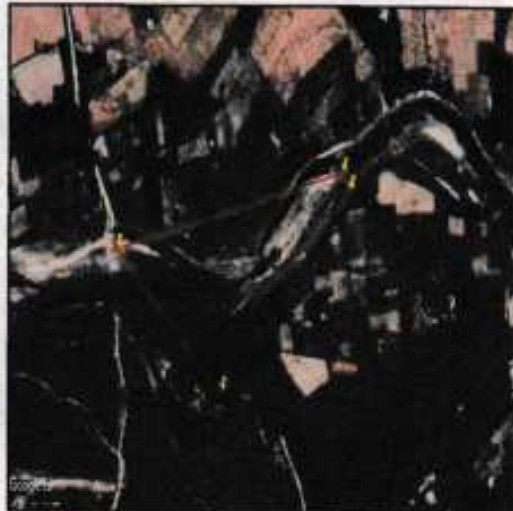
Area Allotted: 2.71 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.5 (Sl. No. 2)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 569 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Kakoi Sand, Gravel & Ordinary Clay/ Silt MCA

Area Allotted: 4.5 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.5 (Sl. No. 5)

Google Image (different time scale with date):



Date of Acquisition: 03.02.2017



Date of Acquisition: 24.11.2020



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Dirgha Sand, Gravel & Ordinary Clay/ Silt MCA

Area Allotted: 8.8 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.5 (Sl. No. 6)

Google Image (different time scale with date):



Date of Acquisition: 27.10.2023



Date of Acquisition: 27.10.2023



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 573 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photograph:



03/10/2024 10:47:47 AM

03/10/2024 10:47:47 AM

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur

APPROVED

STATE ENGINEERING COLLEGE
LAKHIMPUR

Dhekianala Sand, Gravel & Ordinary Clay/ Silt MPA

Area Allotted: 2.2 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.5 (Sl. No. 7)

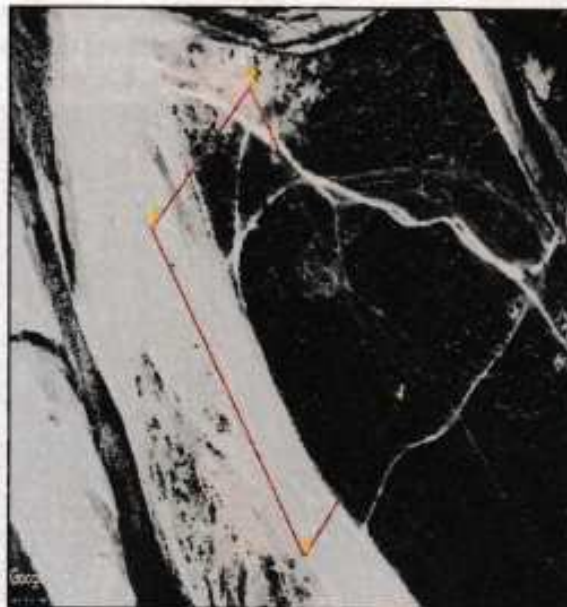
Google Image (different time scale with date):



Date of Acquisition: 27.10.2023



Date of Acquisition: 27.10.2023



Date of Acquisition: 27.10.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 575 - | Page

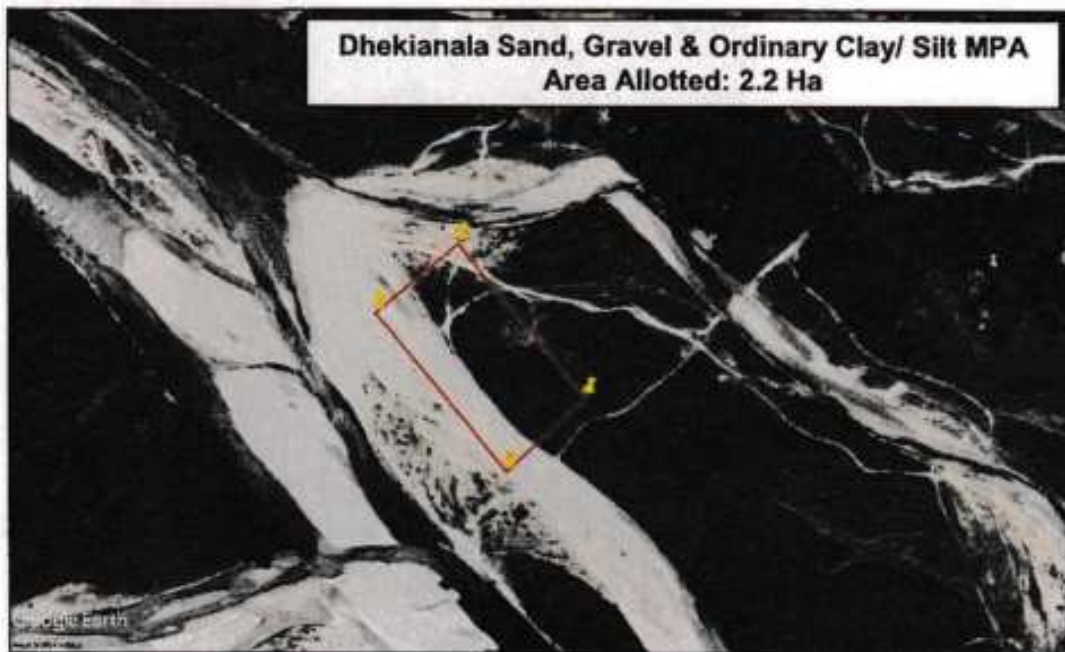
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

No.2 Chenimora Kongkur Gaon Ordinary Clay MPA (Plot-K)

Area Allotted: 39.43 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 1)

Google Image (different time scale with date):



Date of Acquisition: 9.12.2016



Date of Acquisition: 26.02.2020



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 577 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:



Chenimora Kangkur No.2, Assam, India

Latitude
26.96458036°

Longitude
94.0206197°

Local 09:42:58 AM

Altitude 102 meters

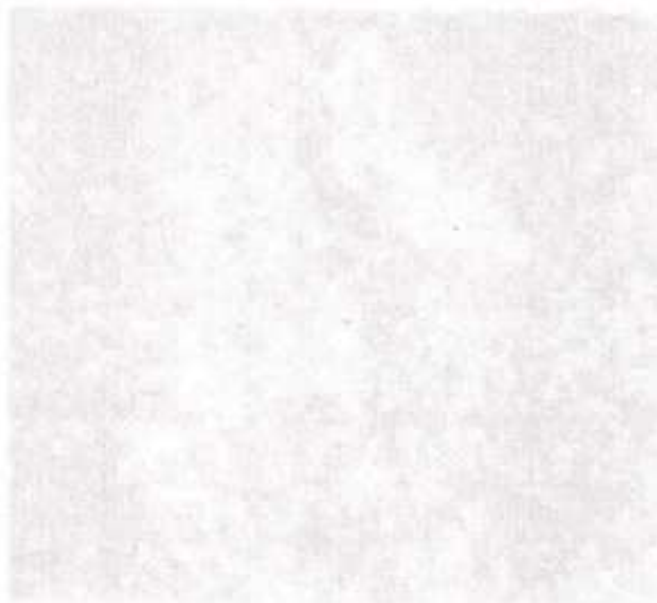


Latitude: 26.96094
Longitude: 94.021671
Elevation: 62.69±49 m
Accuracy: 4.3 m
Time: 09-02-2024 12:49
Note: No 2 Chenimora kangkur
Powered by No2Sgs

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Office 578 - | Page
Lakhimpur Division
North Lakhimpur.

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Subansiri River Ordinary Clay MPA

Area Allotted: 21.58 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 2)

Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 13.02.2020



Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 580 - | Page



Site Photographs:



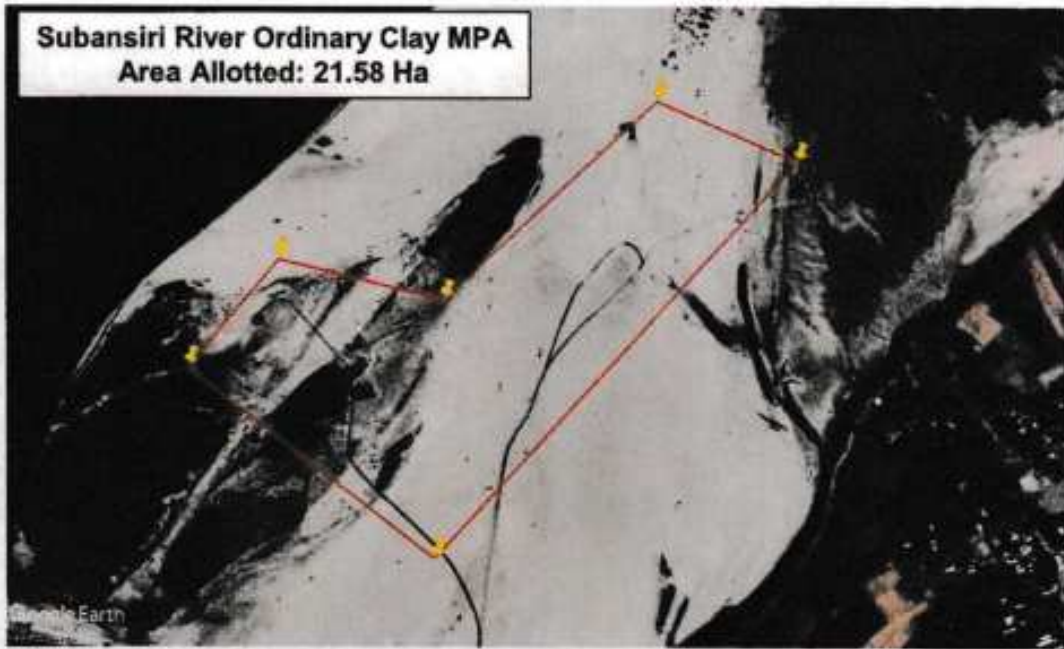
Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 581 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

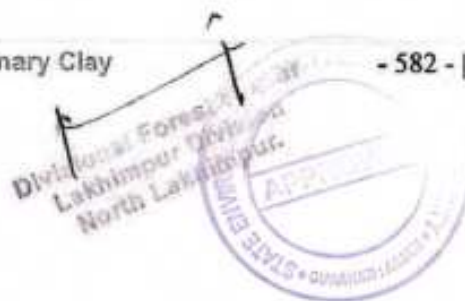


KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 582 - | Page

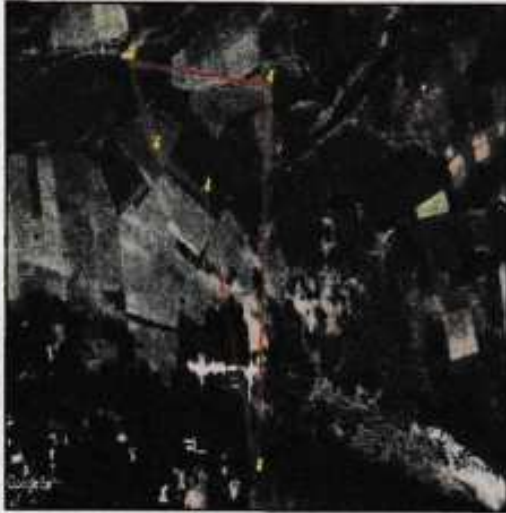


No.2 Chenimora Kongkur Gaon Ordinary Clay MPA (Plot-L)

Area Allotted: 2.64 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 3)

Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 13.03.2020



Date of Acquisition: 05.12.2023

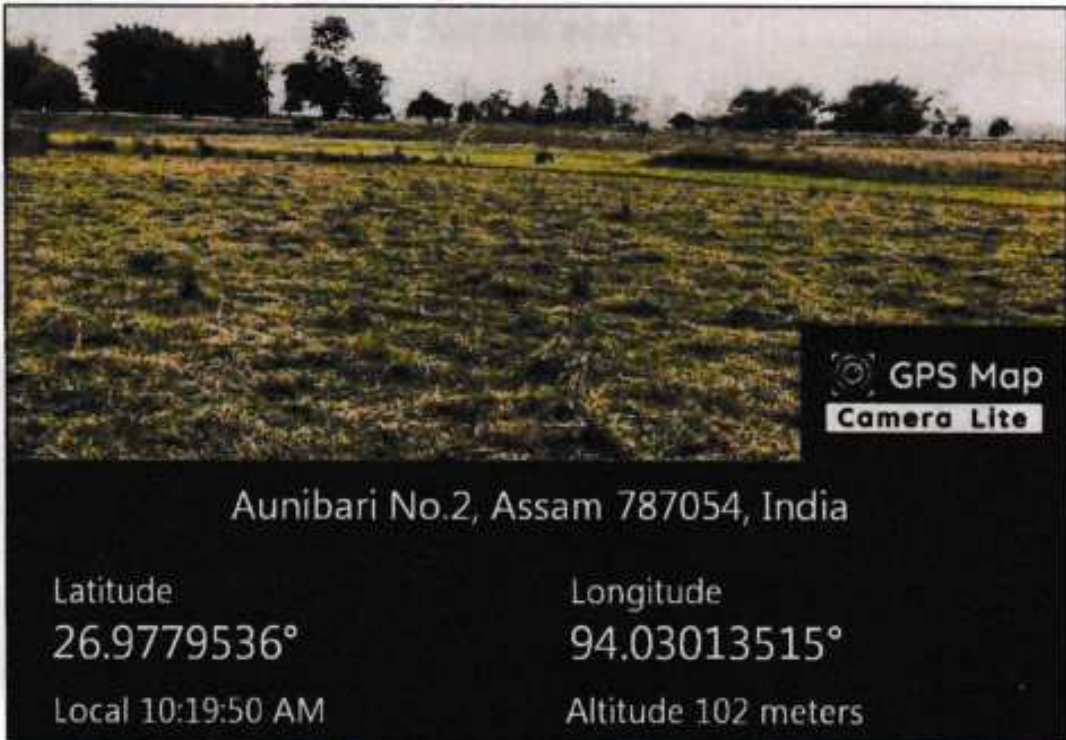
Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 583 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



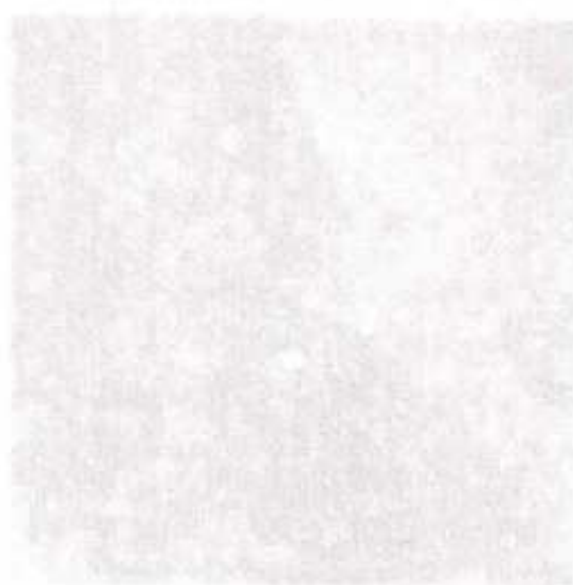
Site Photographs:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer - 584 - | Page
Lakhimpur Division
North Lakhimpur.

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Dhunabari Gaon Ordinary Clay MPA (Plot-E)

Area Allotted: 5.03 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 4)

Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 13.03.2020



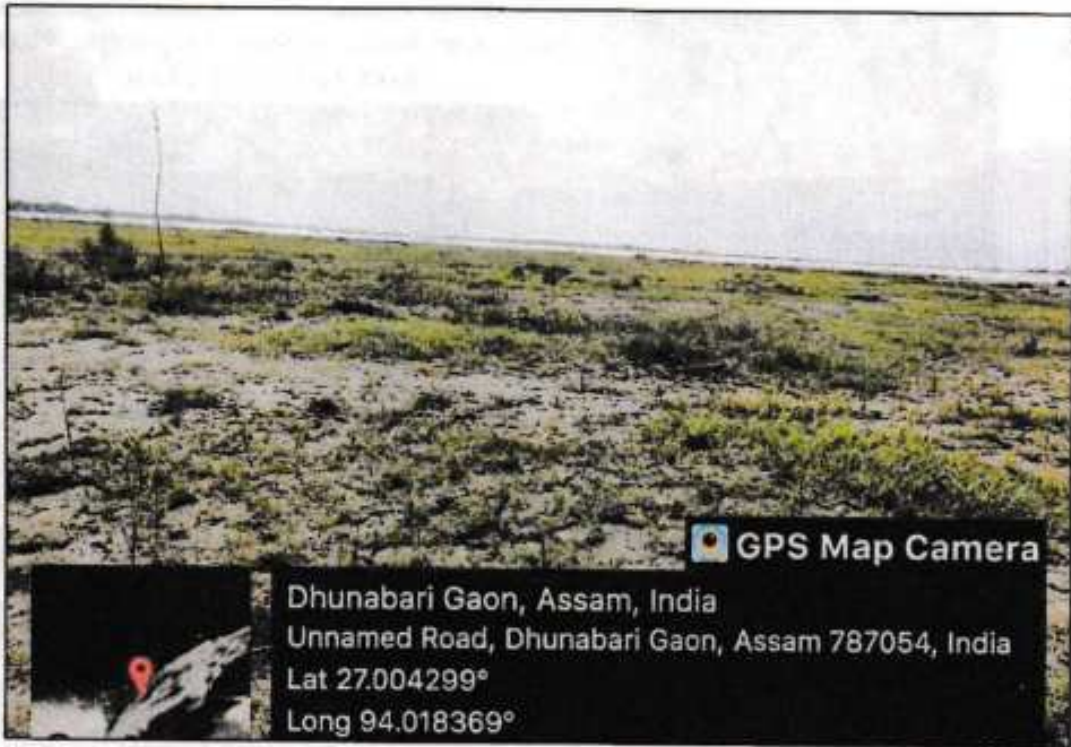
Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Site Photographs:



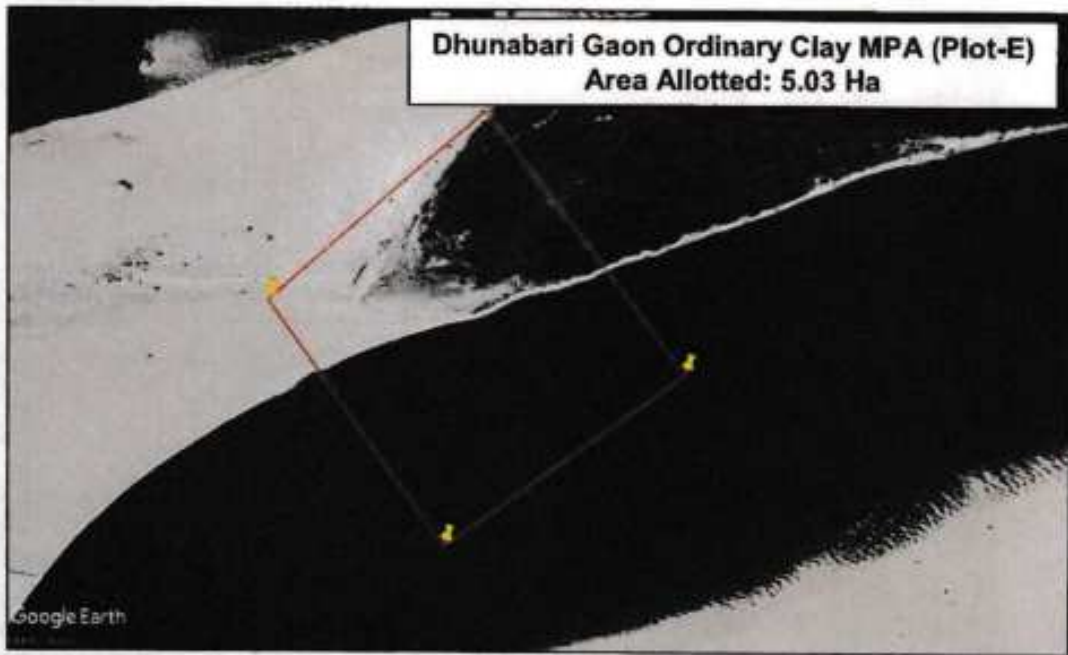
Minerals: Sand, Gravel, Boulder, Ordinary Clay

- 587 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Dhunabari Gaon Ordinary Clay MPA (Plot-F,G,H&I)

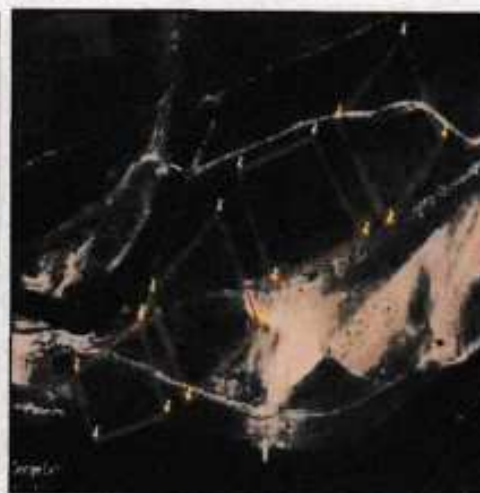
Area Allotted: 3.89 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 5)

Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 26.02.2020



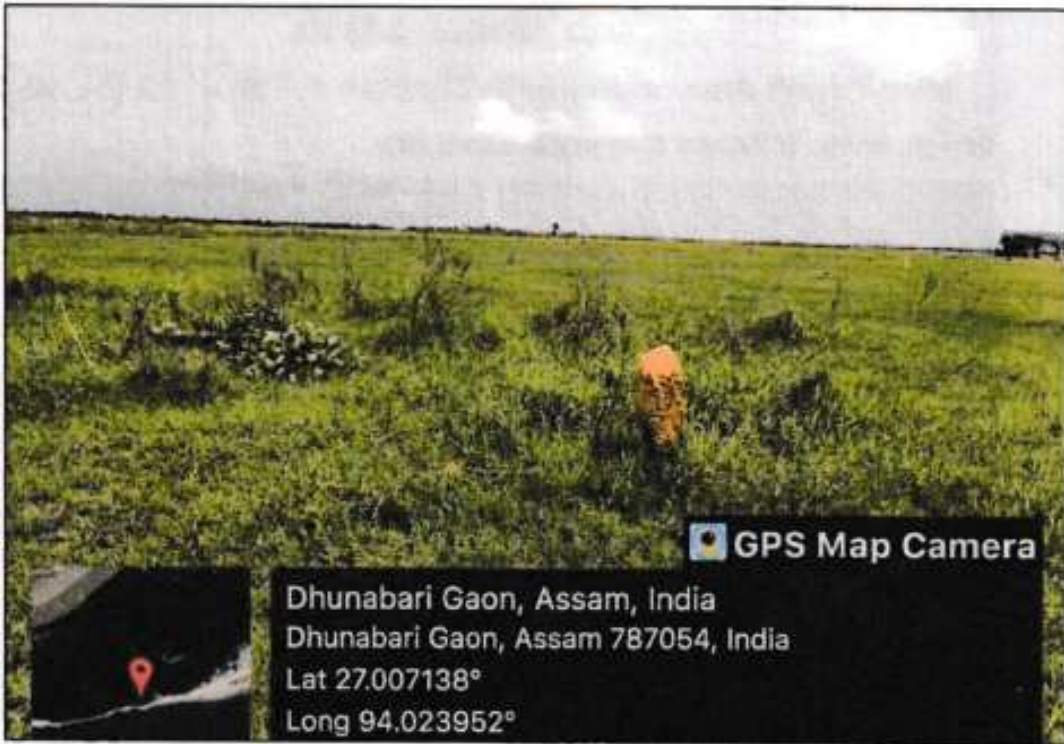
Date of Acquisition: 05.12.2023

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs:

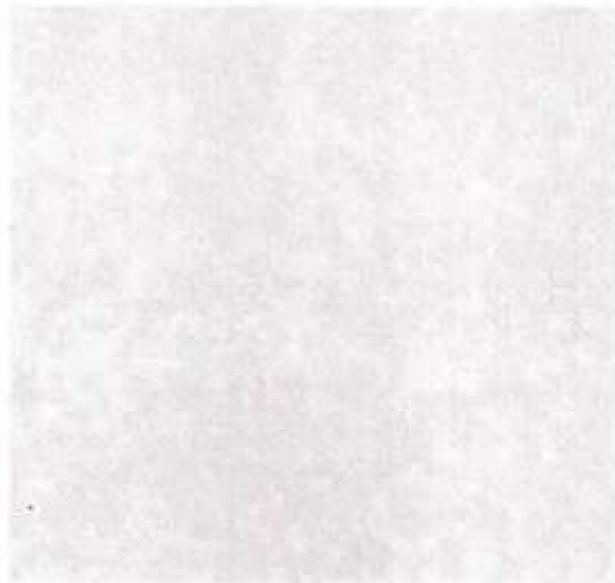


Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Ranganadi Ordinary Clay/ Silt MPA

Area Allotted: 8.73 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 6)

Google Image (different time scale with date):



Date of Acquisition: 07.03.2018



Date of Acquisition: 06.02.2021



Date of Acquisition: 14.05.2024

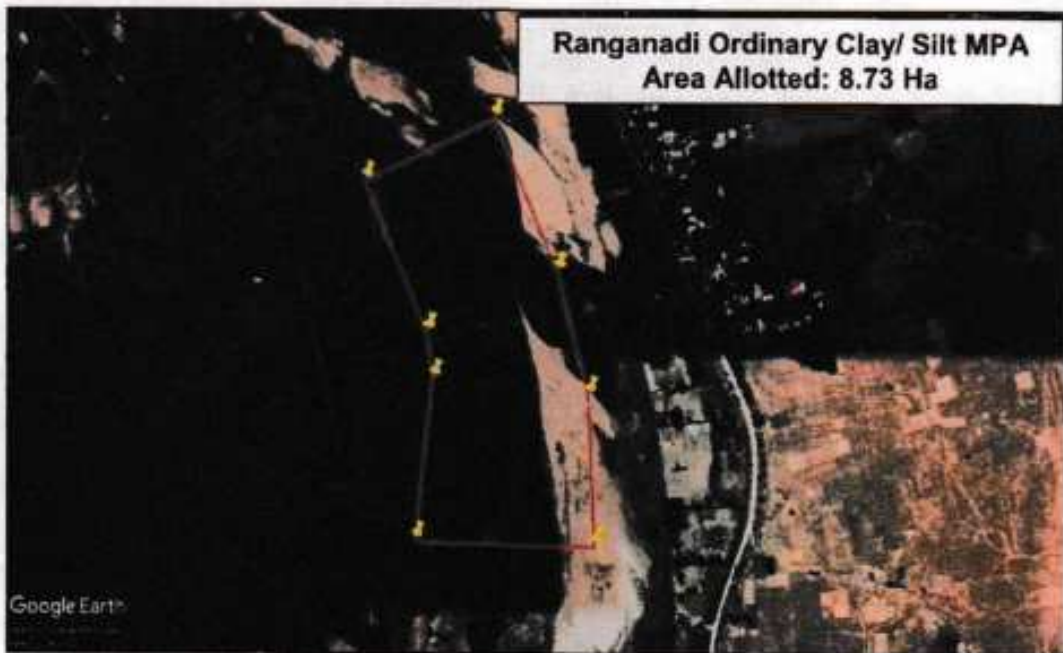
Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Ranganadi Ordinary Clay/ Silt MPA

Area Allotted: 4.5 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 7)

Google Image (different time scale with date):



Date of Acquisition: 07.03.2018



Date of Acquisition: 07.03.2018



Date of Acquisition: 07.03.2018

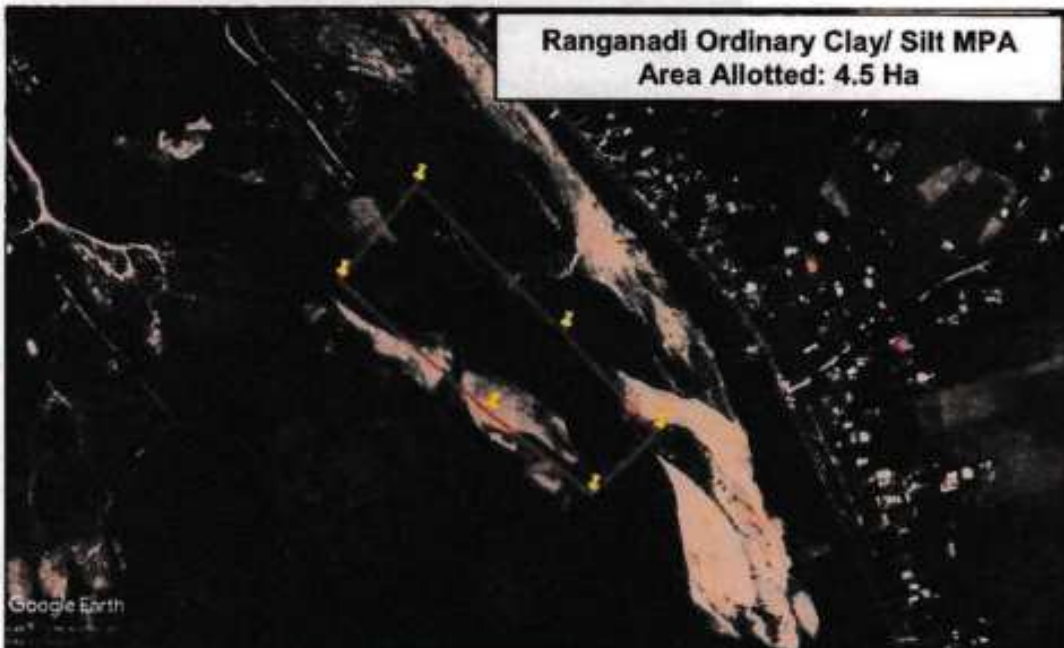
Minerals: Sand, Gravel, Boulder, Ordinary Clay



Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Ranganadi Ordinary Clay/ Silt MPA

Area Allotted: 1.4 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 8)

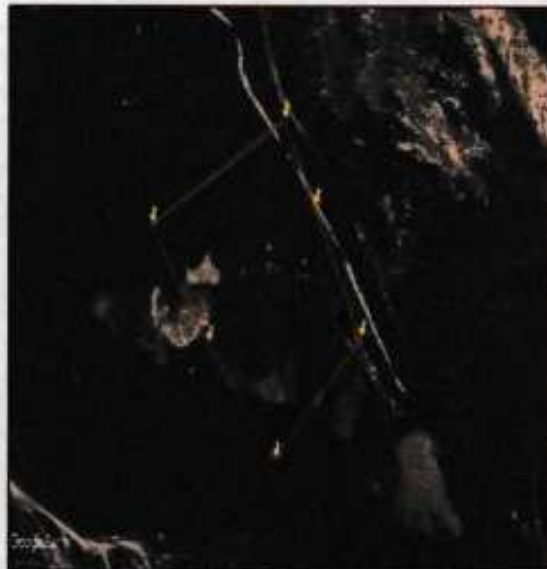
Google Image (different time scale with date):



Date of Acquisition: 27.02.2018



Date of Acquisition: 06.02.2021



Date of Acquisition: 14-5-2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

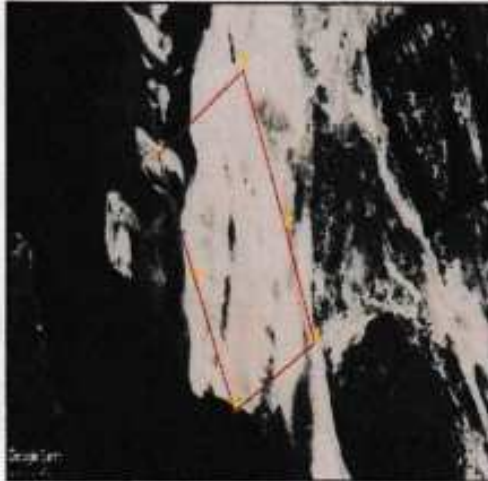


Ranganadi River Bed Ordinary Clay MPA near Pahumora

Area Allotted: 1.2 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 9)

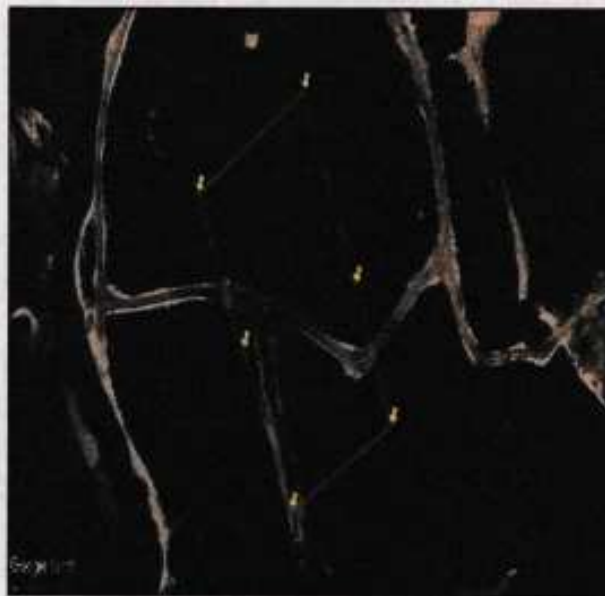
Google Image (different time scale with date):



Date of Acquisition: 14-5-2024



Date of Acquisition: 14-5-2024



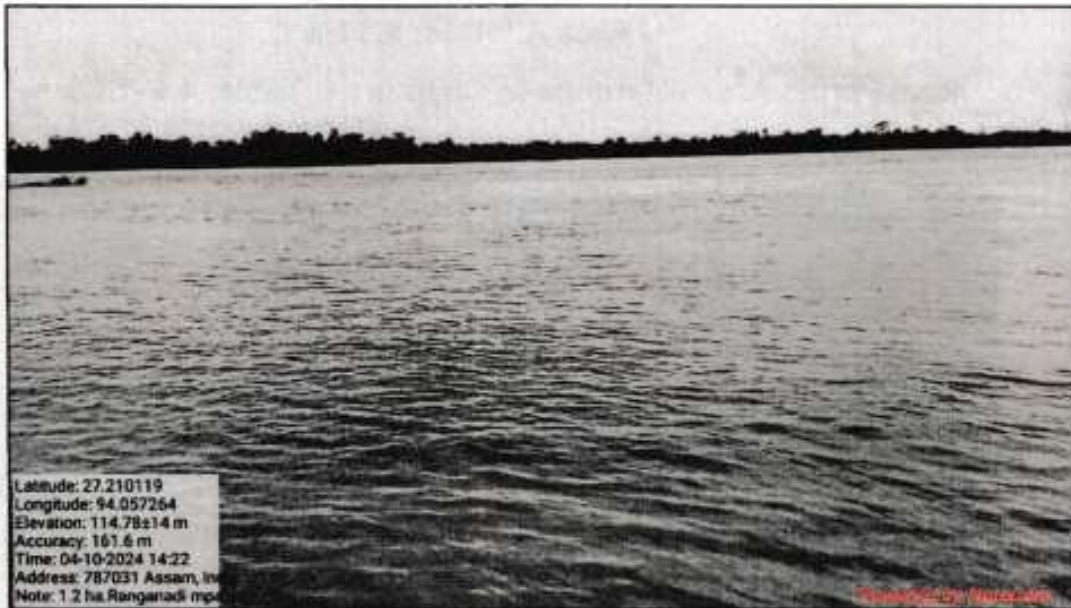
Date of Acquisition: 14-5-2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

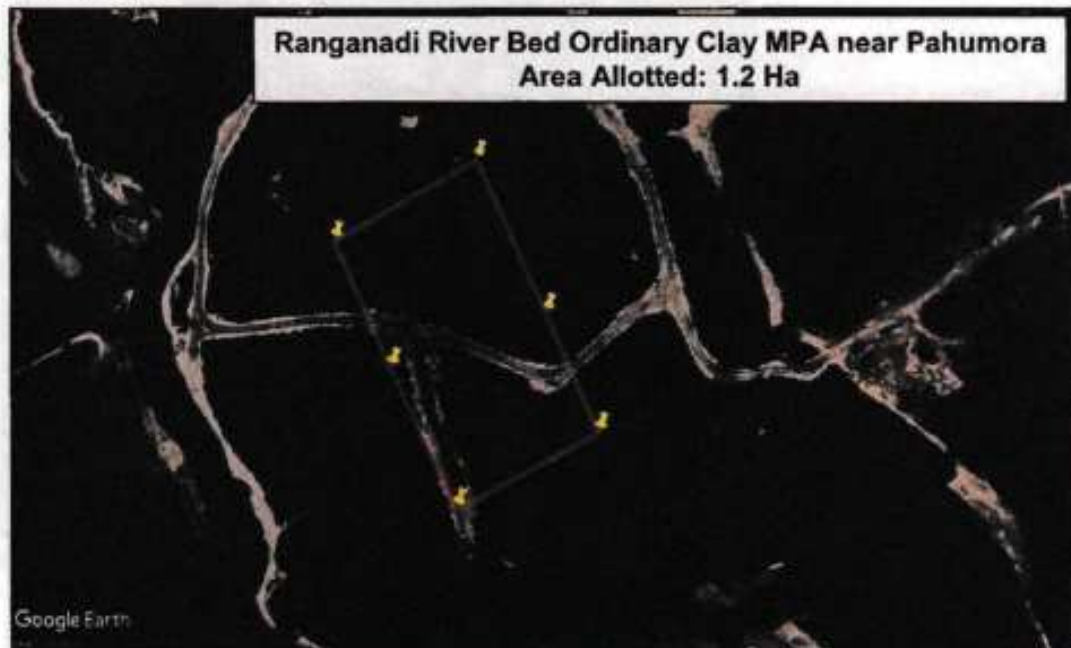
- 598 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

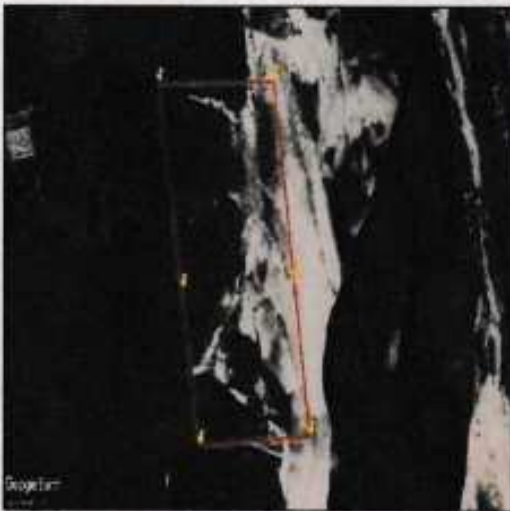


Ranganadi River Ordinary Clay MPA near Bogolijan

Area Allotted: 1.3 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 10)

Google Image (different time scale with date):



Date of Acquisition: 07.03.2018



Date of Acquisition: 06.02.2021



Date of Acquisition: 14.05.2024

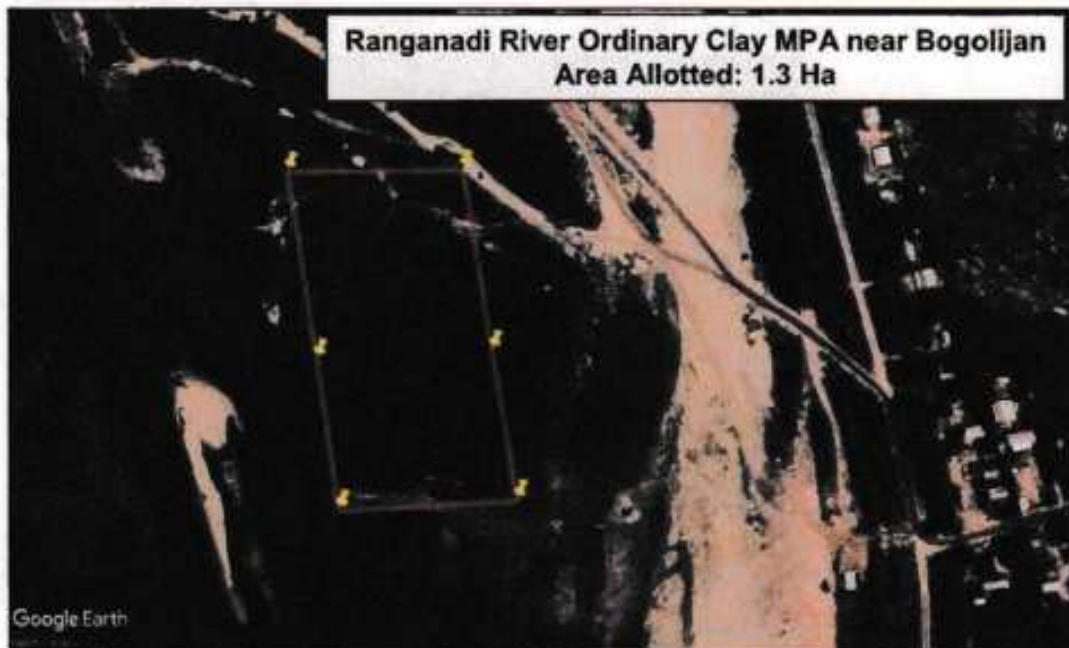
Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer 600 - | Page
Lakhimpur Division
North Lakhimpur.

Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Ranganadi River Ordinary Clay MPA

Area Allotted: 1.67 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 12)

Google Image (different time scale with date):



Date of Acquisition: 07.03.2018



Date of Acquisition: 06.02.2021



Date of Acquisition: 14.05.2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photograph:

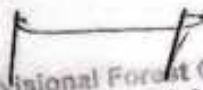


KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Kakoi MPA

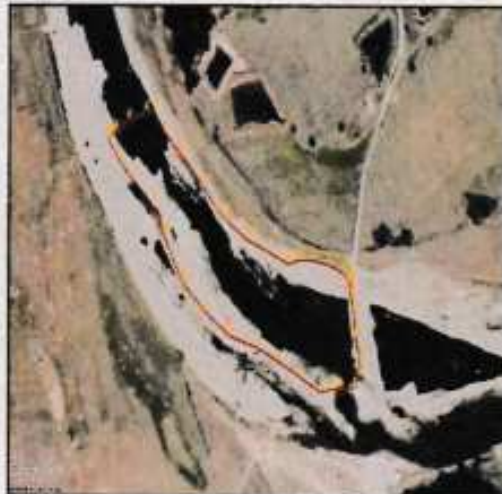
Area Allotted: 2.5 Ha

Mine Contract Area reference in Chapter: 4, Table: 4.6 (Sl. No. 13)

Google Image (different time scale with date):



Date of Acquisition: 09.12.2016



Date of Acquisition: 28.03.2019



Date of Acquisition: 02.11.2022

Minerals: Sand, Gravel, Boulder, Ordinary Clay

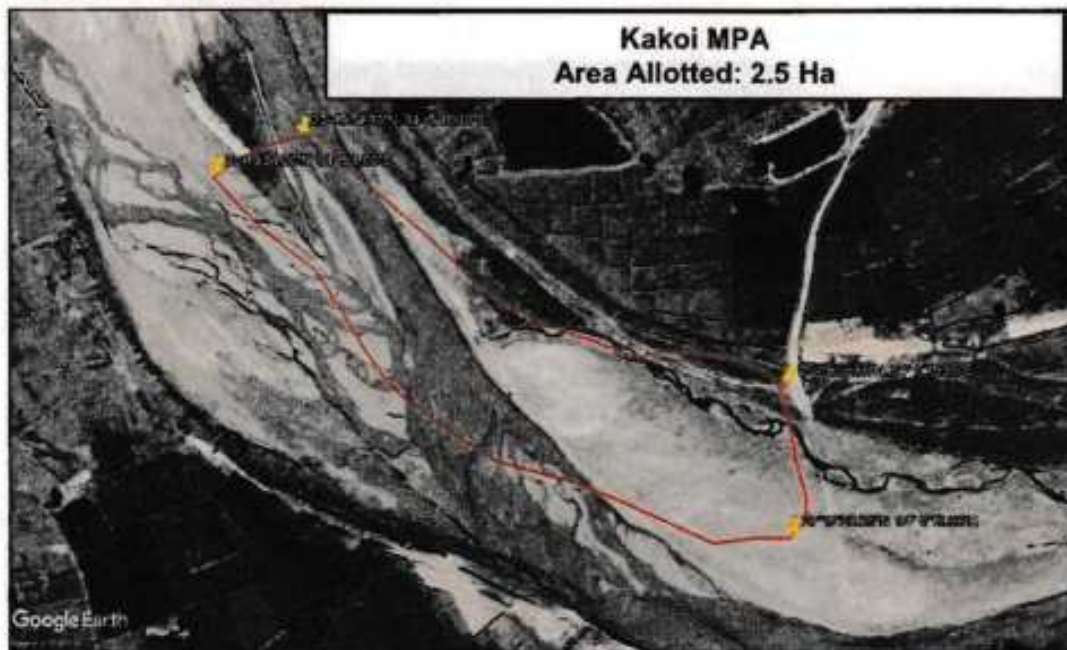
- 604 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay


Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

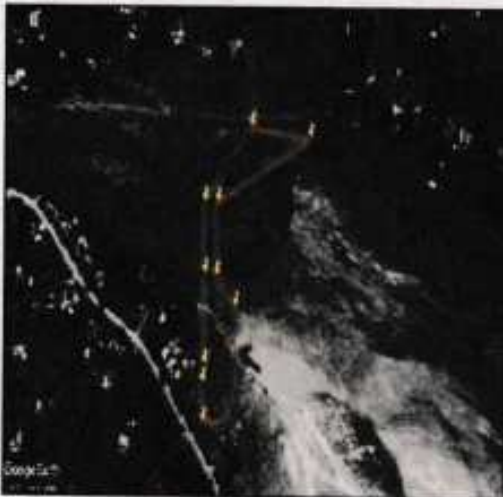


Dolohat Singra MPA

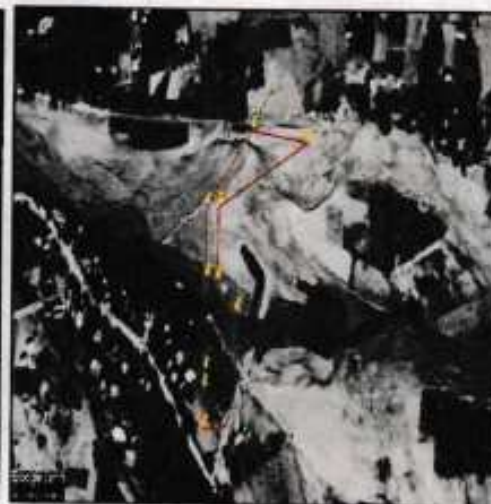
Area Allotted: 3.80 Ha

Mine Permit Area reference in Chapter: 4, Table: 4.6 (Sl. No. 14)

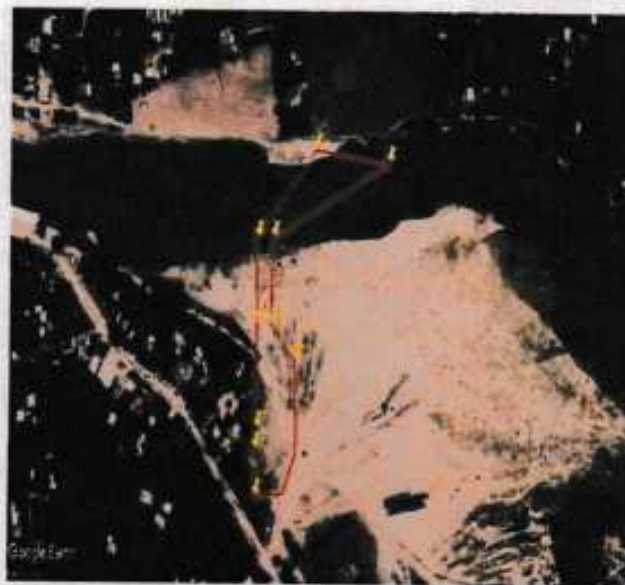
Google Image (different time scale with date):



Date of Acquisition: 12.05.2018



Date of Acquisition: 04.01.2021



Date of Acquisition: 14.05.2024

Minerals: Sand, Gravel, Boulder, Ordinary Clay

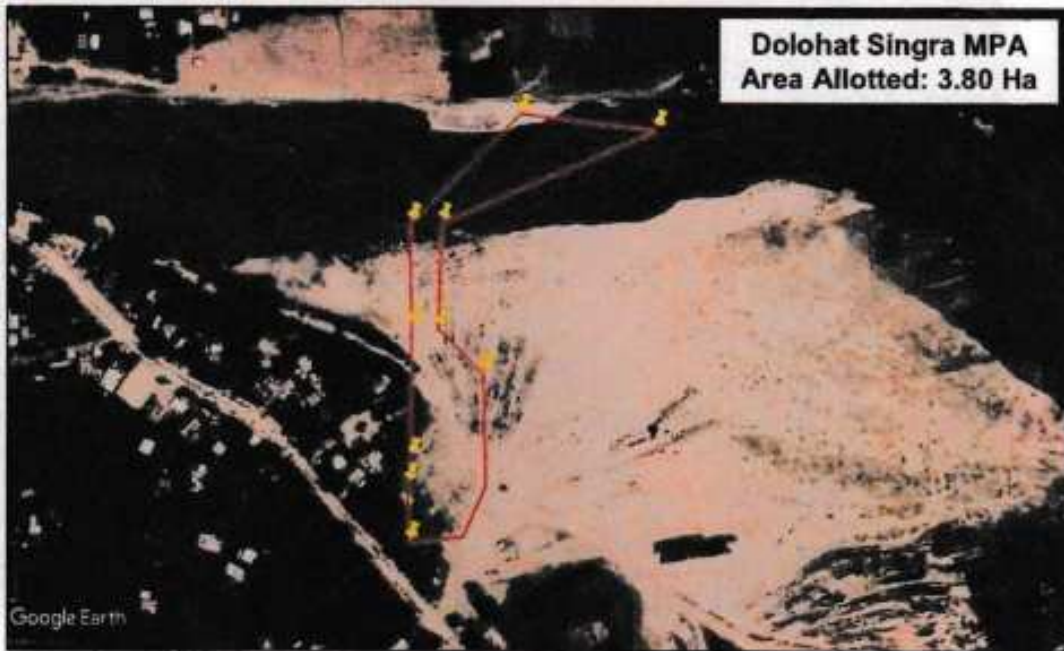
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photograph:



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

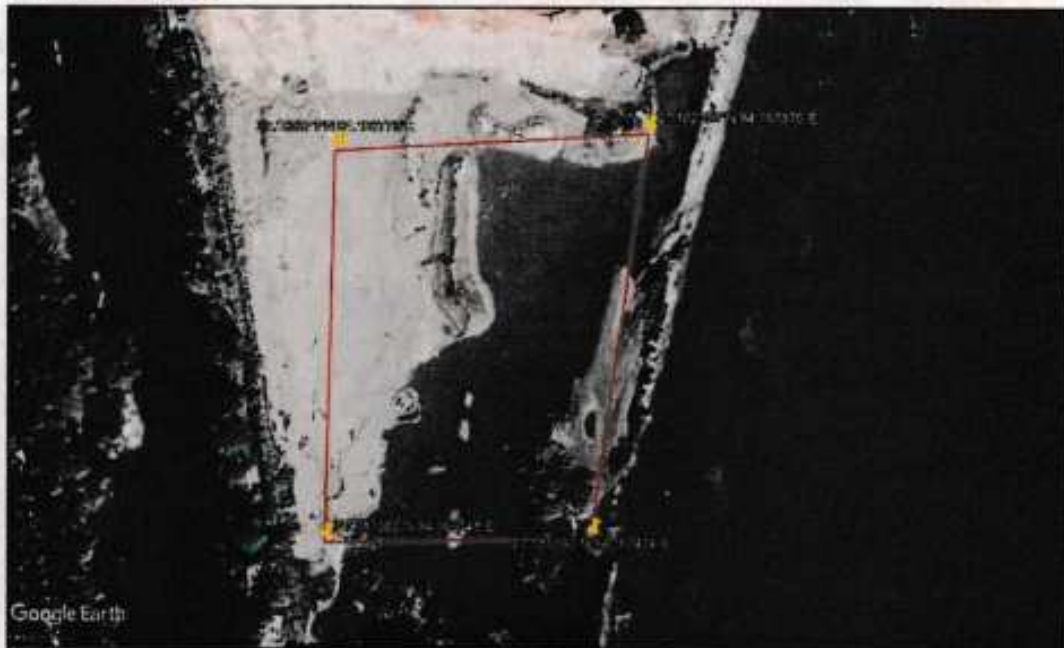

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Proposed Brick Earth Permit Areas



KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

Site Photograph



Fig. 1

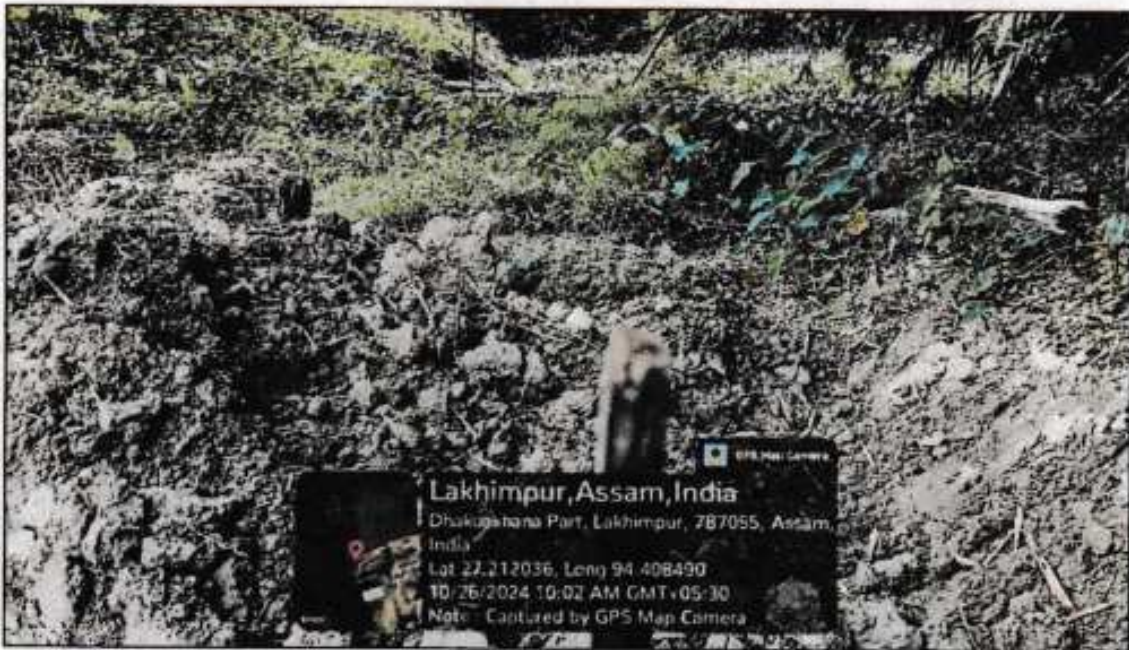
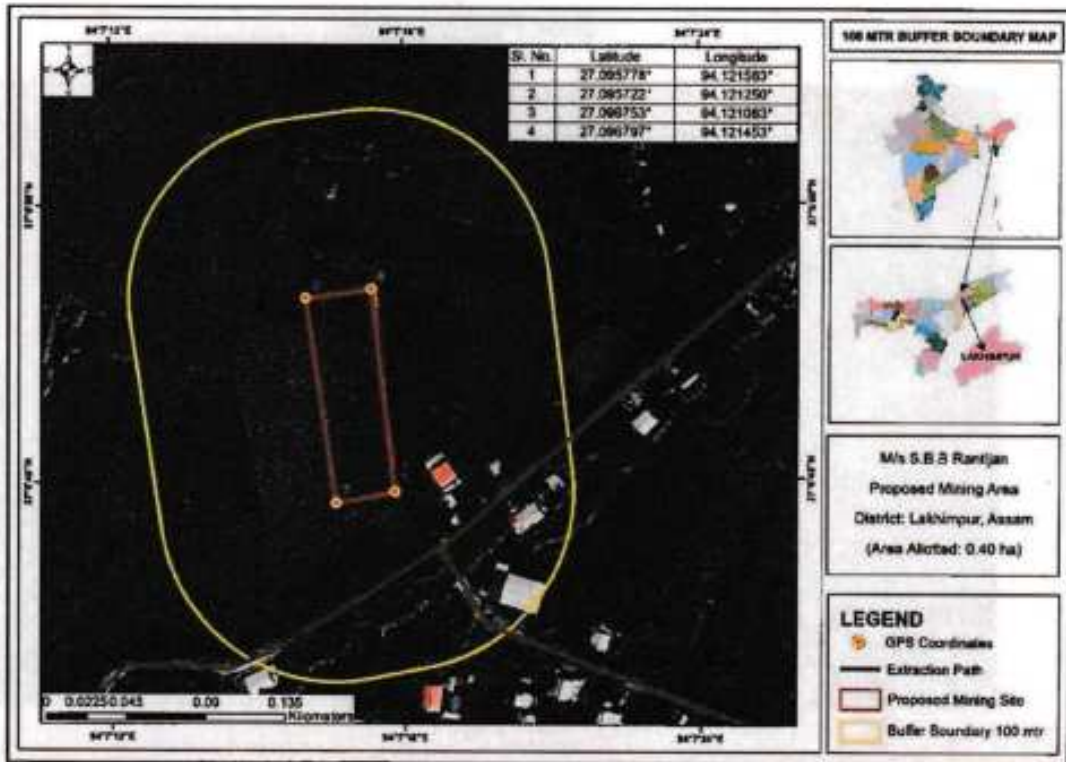


Fig. 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur




Fig. 3



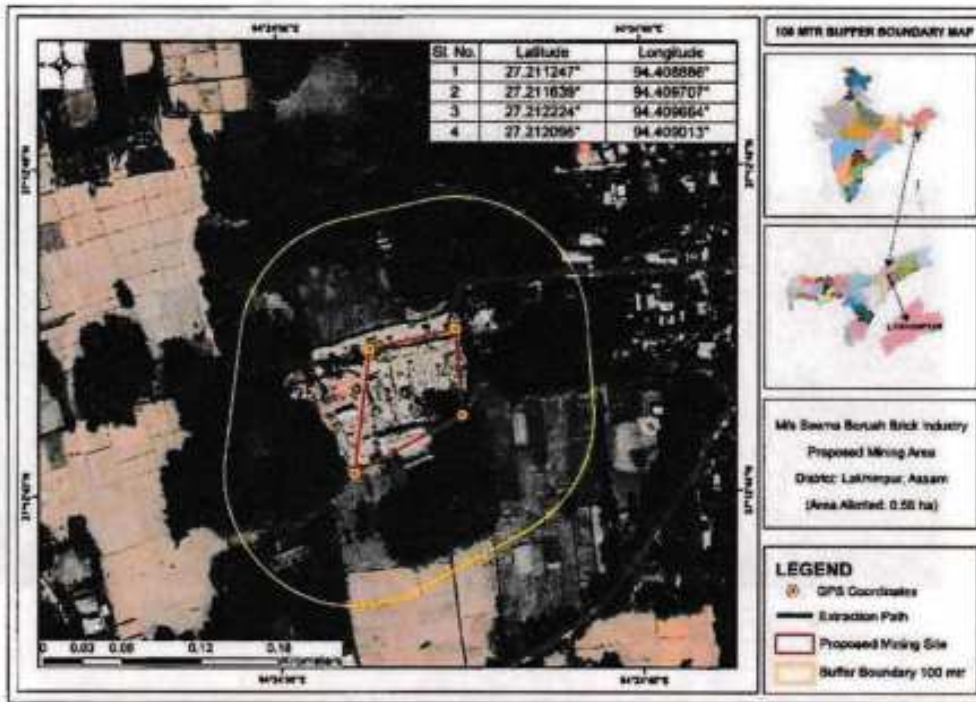
Fig. 4

Minerals: Sand, Gravel, Boulder, Ordinary Clay

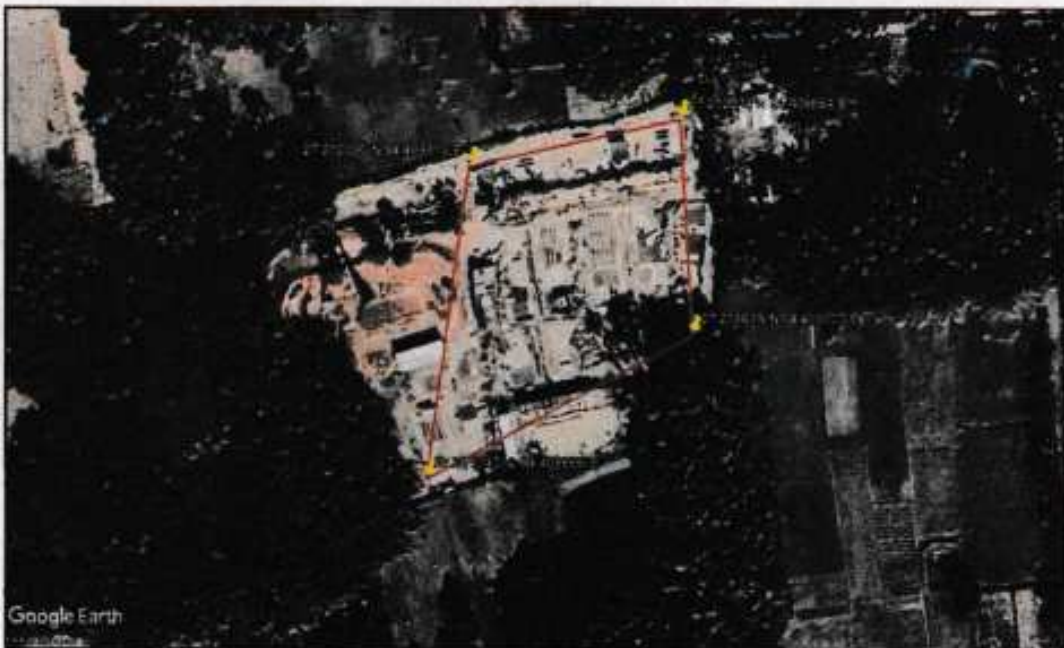
- 611 - | Page


Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.





Fig. 5

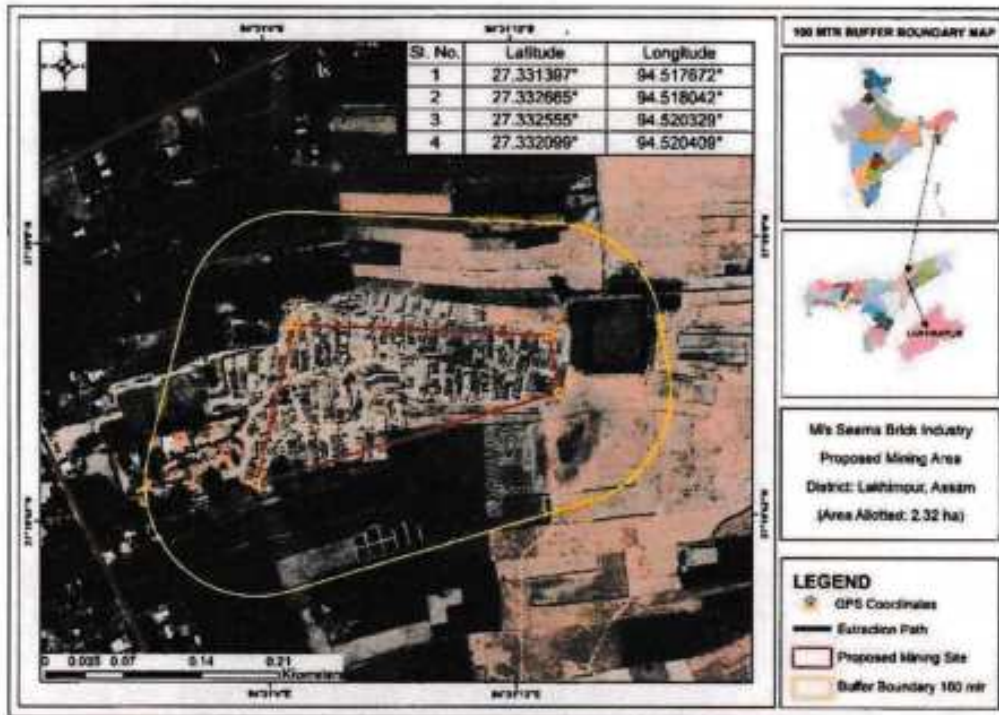


Fig. 6

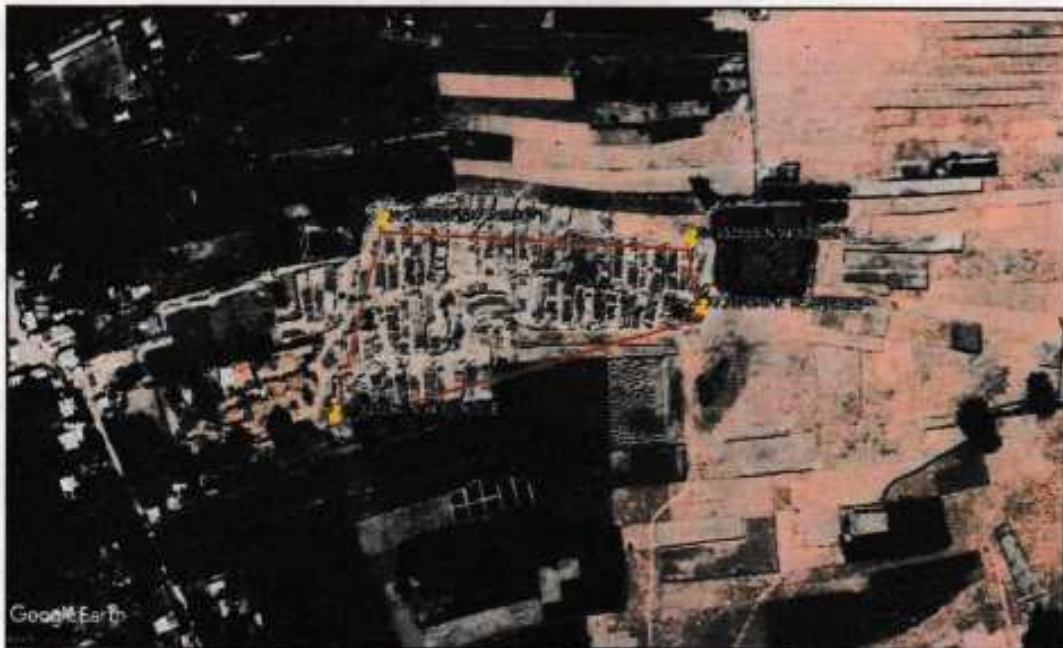
Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional For & Officer
Lakhimpur Division
North Lakhimpur.



Fig. 7



Fig. 8

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Site Photographs of Proposed Future Mining Permit/ Contract Areas



Ghagor Mining Contract Area (RF Area)

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

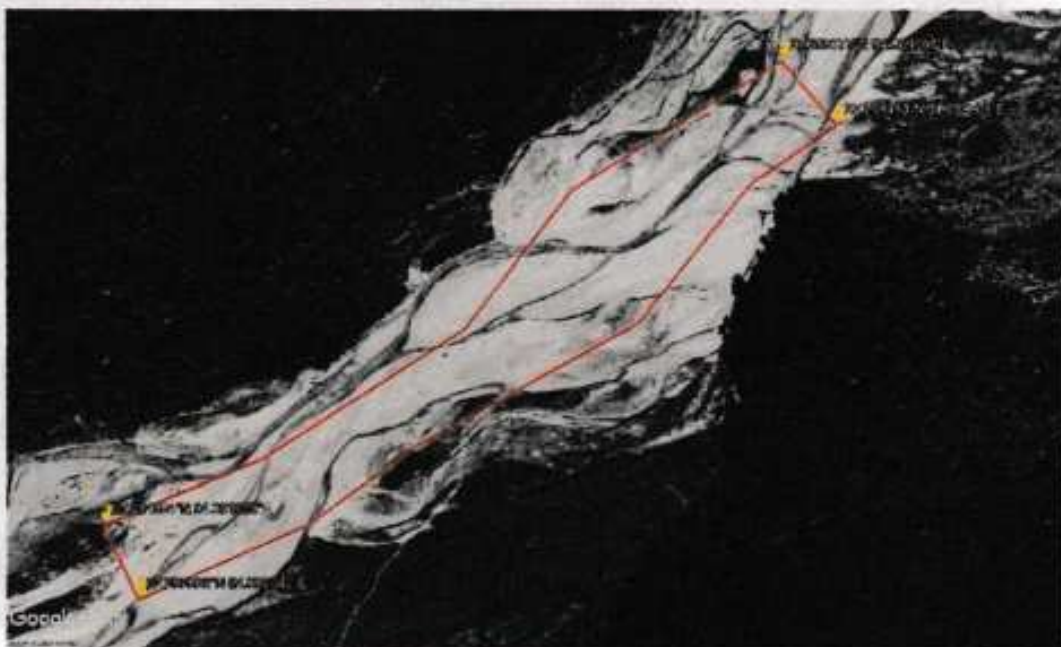
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur





9.0 Ha. Kimin Mining Contract Area (RF Area)

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

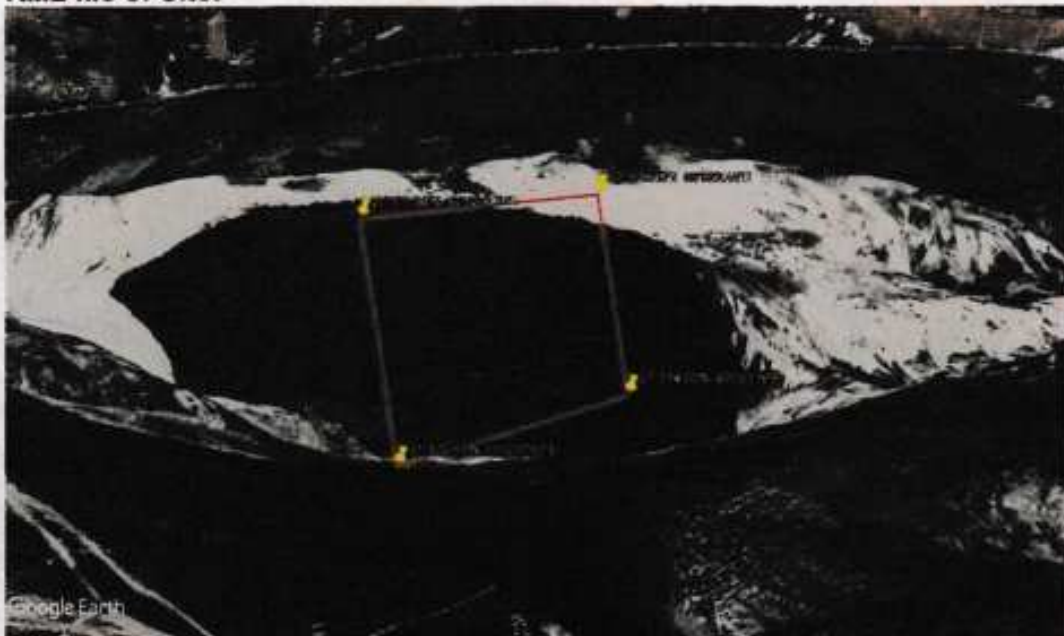

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





2.33 Ha. Pithaguri Sand & Gravel MPA

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

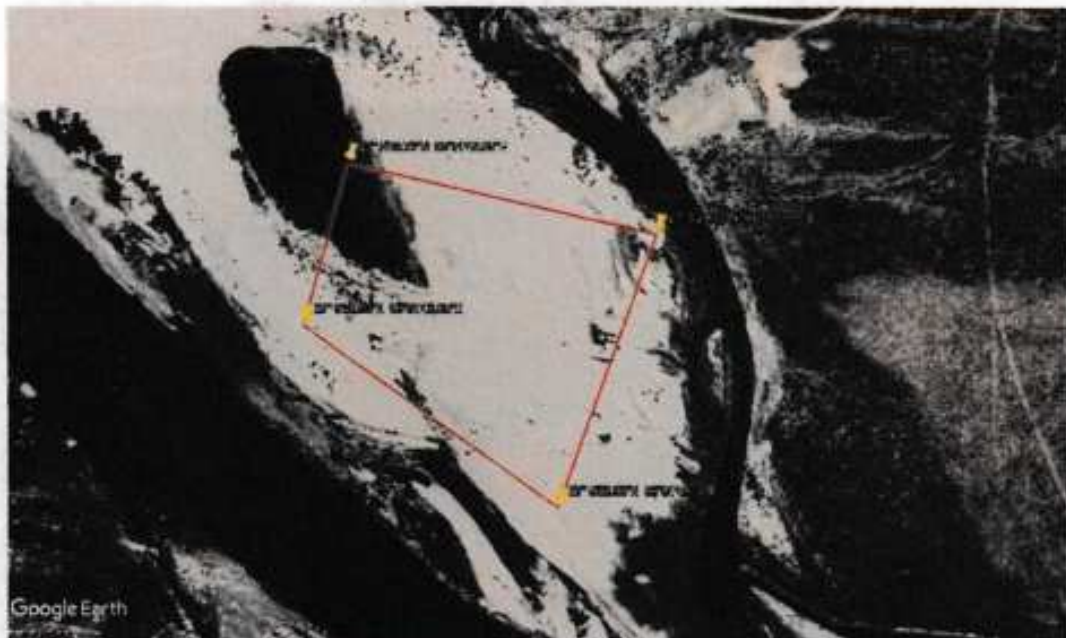
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





2.24Ha. 2 No. Dikrong Chapori Sand & Gravel MPA

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

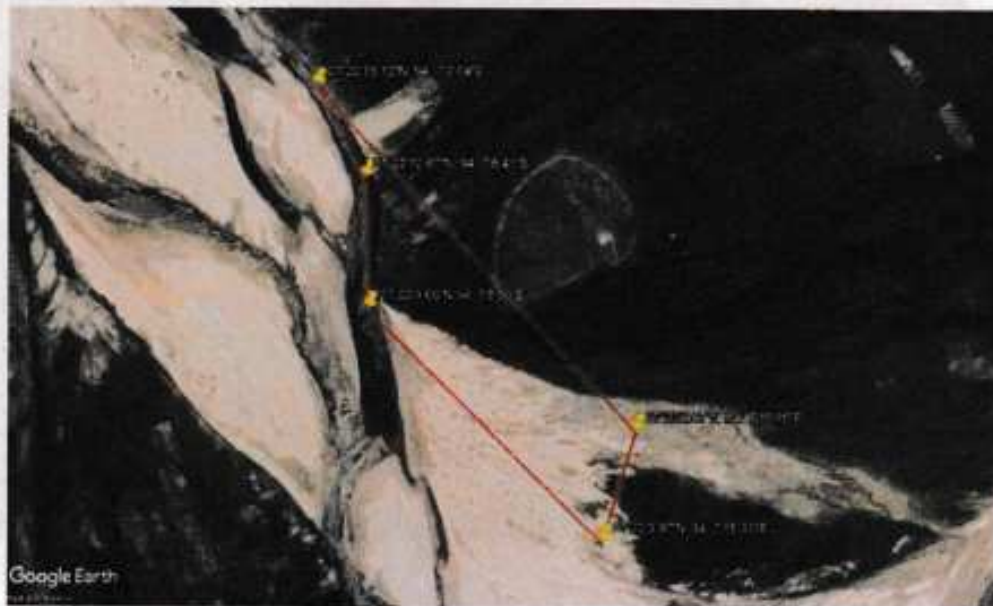
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





3.0 Ha Dirgha MPA

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Lower Subansiri 1.5 Ha. Sand & Gravel MPA

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

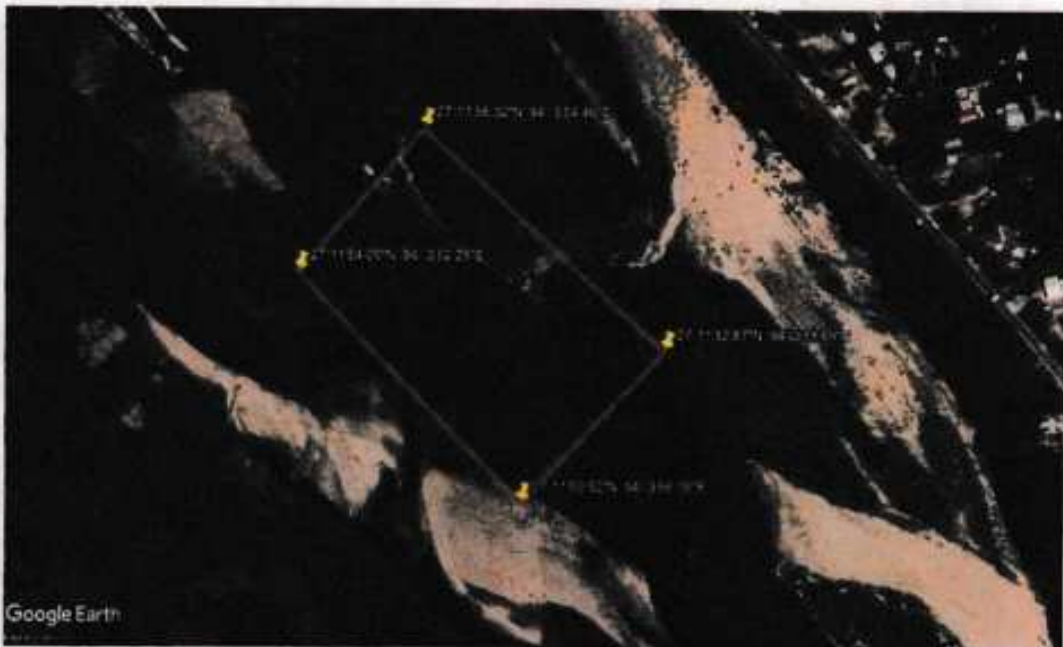
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





1.5 Ha. Ranganadi MPA

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

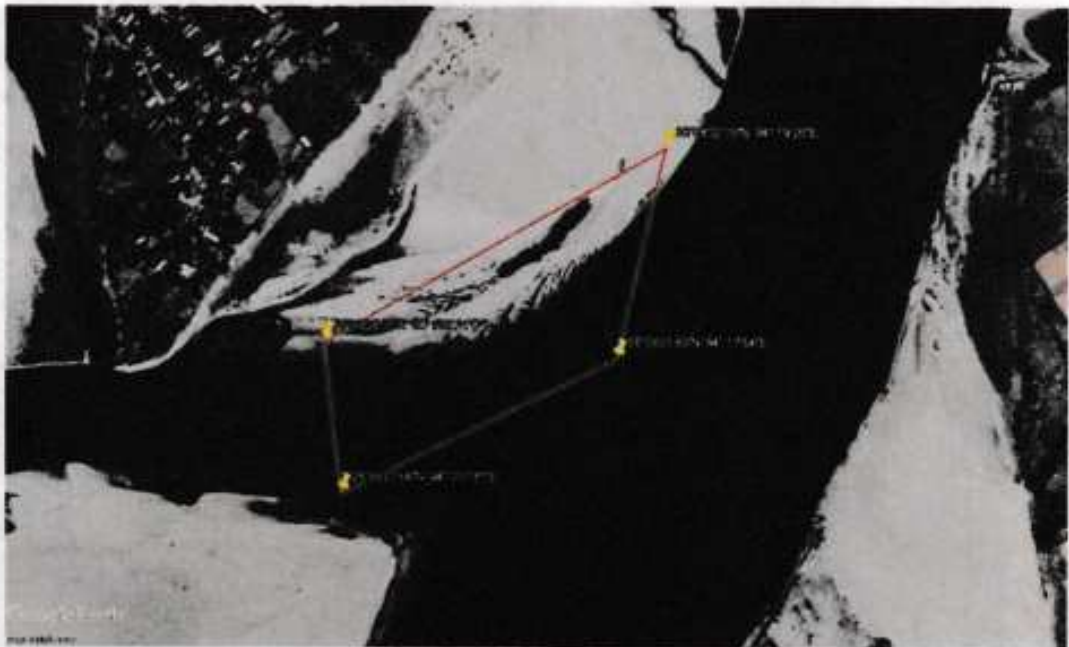
District Forest Officer
Lakhimpur Division
North Lakhimpur.





Borrow Area-R

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

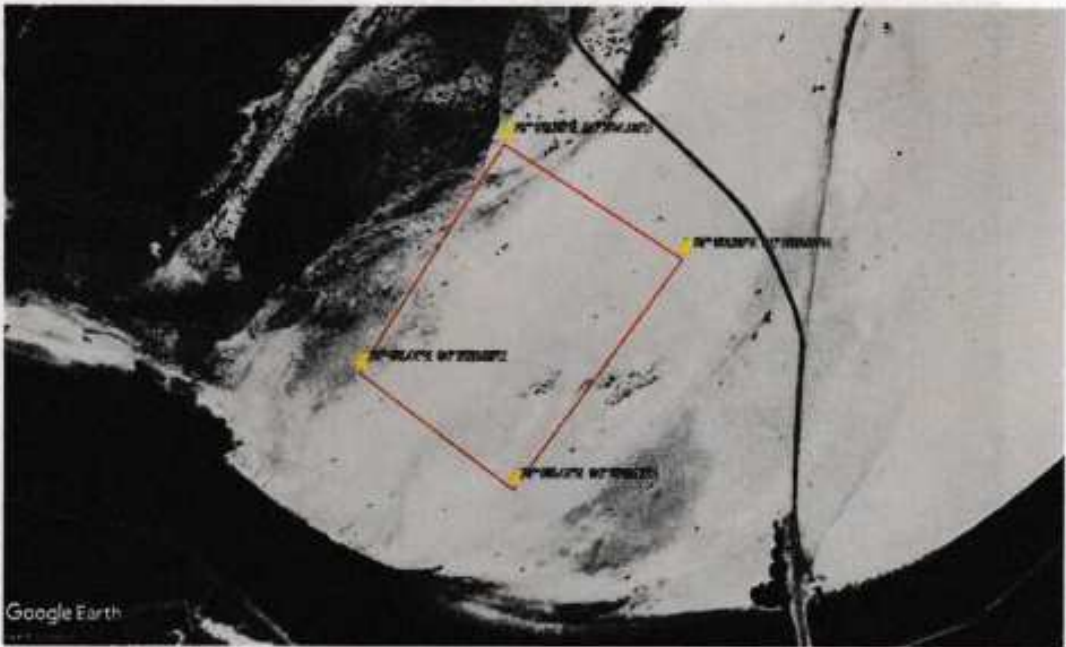

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Borrow Area "Q" At Subansiri River Bed

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur



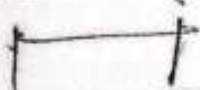
Borrow Area "D-1" at Dikrong River Bed

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

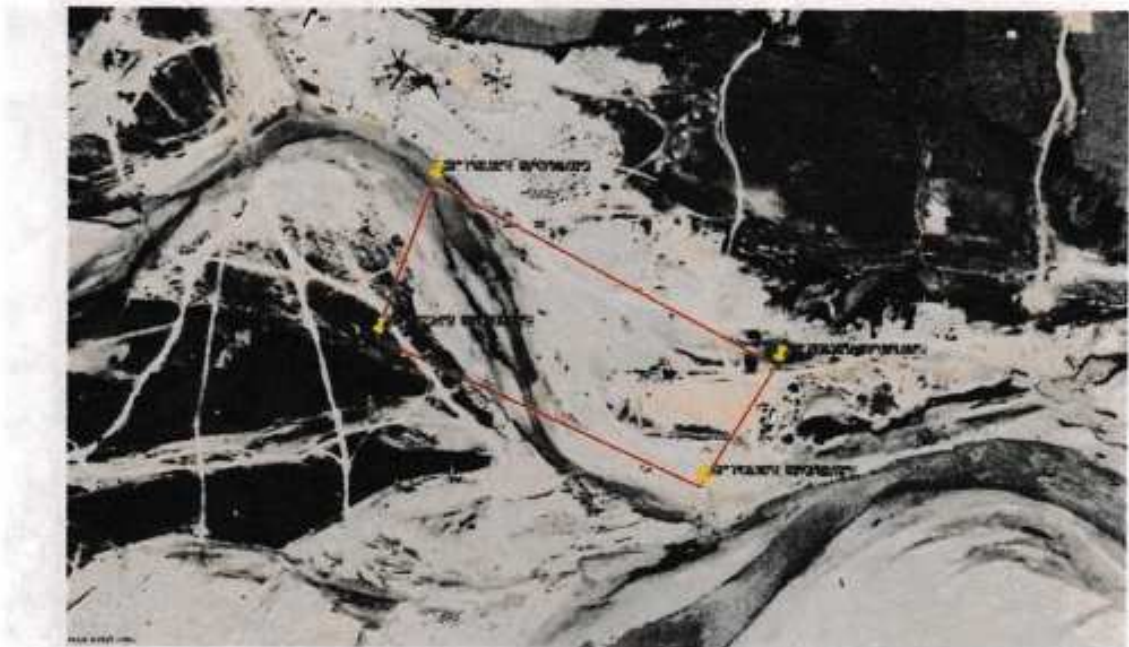
- 625 - | Page


Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Borrow Area "D-2" at Dikrong River Bed

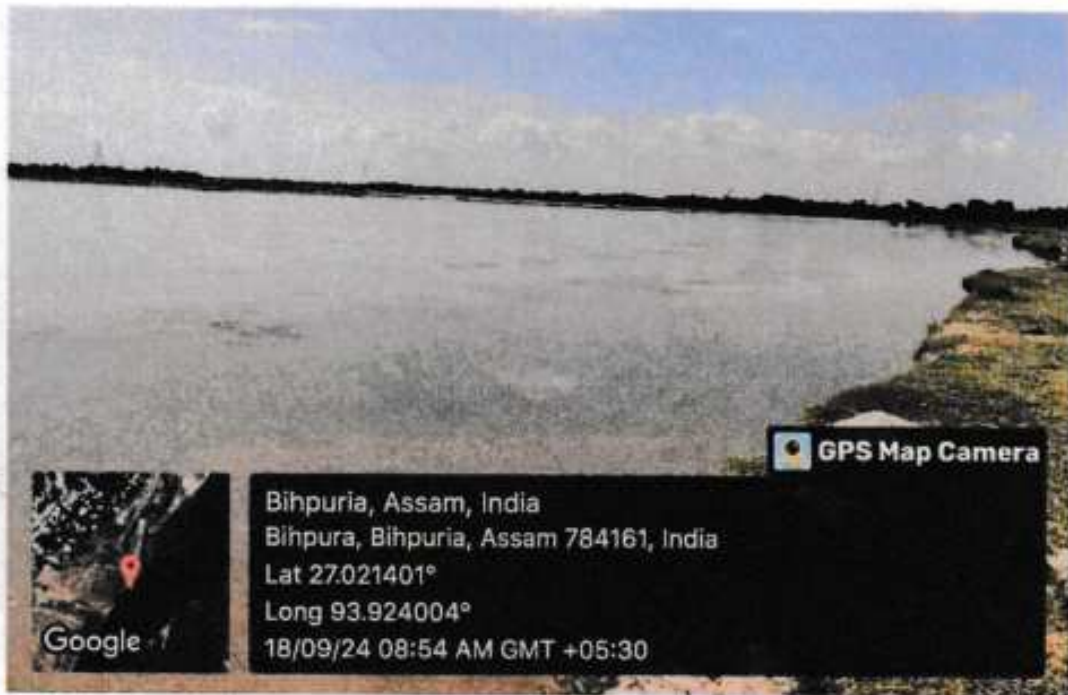
KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

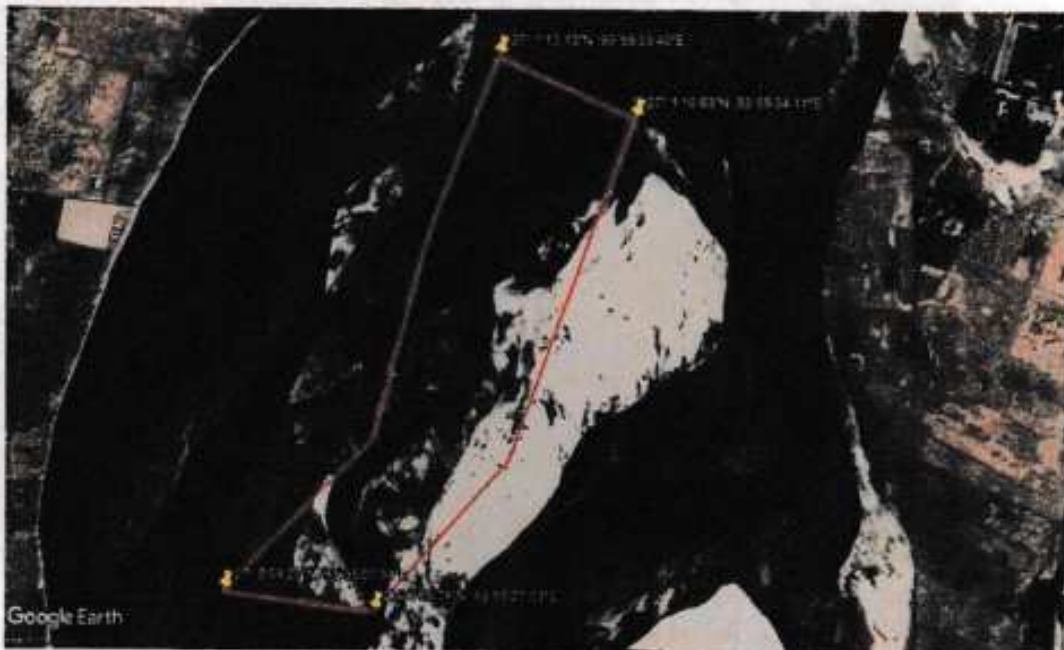
- 626 - | Page

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Dikrong River Clay Mining Permit Area

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay


Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Latitude: 27.07372
Longitude: 93.905989
Elevation: 98.98±11 m
Accuracy: 9.7 m
Time: 08-02-2025 17:08
Note: Lower Dikrong Dongibil

Surveyed by NWS/Dr. Jini

Lower Dikrong Dongibil 65/68 Grant Area

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

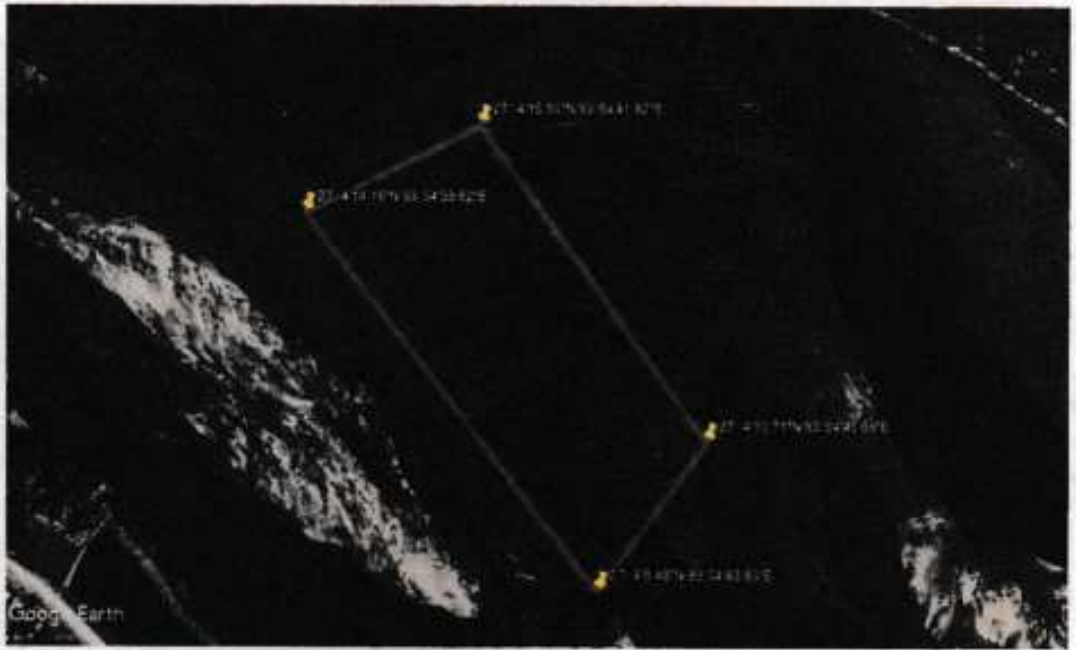
Divisional Forest Officer
Lakhimpur Division
North Lakhimpur





Lower Dikrong Bango Gaon Area

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Dikrong River Sisapathar Hantapur Area

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.

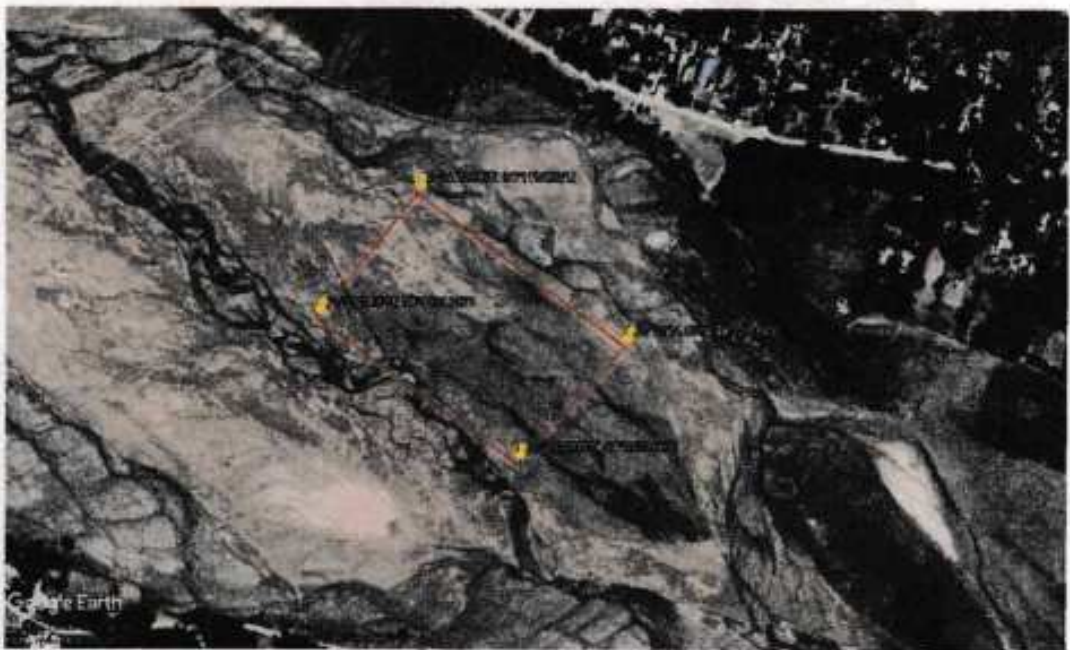




Latitude: 27.353979
Longitude: 94.198072
Elevation: 98.88116 m
Accuracy: 15.0 m
Time: 07-02-2025 13:29
Address: 787032 Assam, India
Note: Boginadi earth MPA.

Boginadi Ordinary Clay/ Silt MPA

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



Gabharu River Baligaon Area

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.





Gabharu River Deori Gaon Area

KML file of Site:



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.



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RELIANT HOUSE, Sun Polo colony, Digar Boro Path

Ahongaon, Garchuk, Guwahati- 781035 (Assam)

Ph: 7086020945/8453222883 /7086028452

E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in



RPPL/MINERAL TESTING/LAKHIMPUR DISTRICT/25

Dated: 26.02.2025

To

M/S Eco Rescue Enviro Consultancy Services Pvt. Ltd.

Your Ref No ECO/Reliant/01-02/2024-25 Date: 18.02.2025

Subject: Revalidation of Mineral Testing Reports.

Dear Sir,

With reference to the above mentioned subject we are submitting herewith the re test report of retained samples in connection with District Survey report of Lakhimpur District.

Thanking you.



Authorised signatory

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
Lakhimpur Division
North Lakhimpur.




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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Bhimpara Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"


Test Results :Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.




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Ahomgaon, Garchuk, Guwahati- 781035 (Assam)

Ph: 7086020945/9435192896/ 9395005840

E-mail: contact@rnt.in ; reliantfoundation2015@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-21
 Sample ID: DPO/SG/25112024/SG-07

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand & Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Bhimpara Sand & Gravel MPA

Environmental Conditions during test:

Temperature : 21.5°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D(A)-(B-C)]
	A	B	C	D	
1	530.5	2038.0	1706.5	527.0	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

Authorized Signatory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.


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 Ph: 7086020945/9435192896/9395005840
 E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411227426/9D
 Sample ID: DFGN/G251121245G-01

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-02-2025
6	Source of Material:	Bhimpura Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	** At the Laboratory located in the basement of our premises at the above mentioned address**

 1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Bhimpura Sand & Gravel MPA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2022)

Date of testing: 19-02-2025 to 19-02-2025

Environmental Conditions during test:

Temperature : 23.8°C, Humidity: 64%

TEST RESULTS			
Sl. No.	Weight of Aggregate to fill the Mold in (Kg) (A)	Volume of Mold in (Liters) (B)	Bulk Density in (Kg/Liter) [A/B]
1	23.940	15.379	1.56

Page: 1 of 1



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 APPROVED
 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



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 Ph: 7086020945/9435192898/ 9395005840
 E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-11-2024

TEST REPORT	
1. Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2. Name of project:	District Survey Report, Lakhimpur District
3. Type of sample:	Sand, Gravel & Ordinary Clay/ Silt
4. Condition of Sample:	OK
5. Date of Sample Received:	22-11-2024
6. Source of Material:	Blimpara Sand, Gravel & Ordinary Clay/ Silt MCA
7. Test Sample Supplied by:	Customer
8. Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results: Next Page



Page: 1 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.




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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411225478-7
 Sample ID: DFO/25112024/SG-07

1. Name of Test: **Specific Gravity of Fine Aggregate** Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)
 Type of Sample: **Sand, Gravel & Ordinary Clay/ Silt** Date of testing: 20-02-2025 to 22-02-2025
 Source: **Bhimpara Sand, Gravel & Ordinary Clay/ Silt MCA** Environmental Conditions during test:
Temperature : 21.3°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
Sample-2	520.0	2031.5	1706.3	514.5	2.64

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified.
 Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.




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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Barrow Area "Q" At Nohadri River Bed
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Ph: 7086020945/9435192896/ 9395005840

E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-31
 Sample ID: DFO/22112024/SG-02

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Borrow Area "Q" At Subansiri River Bed

Environmental Conditions during test:

Temperature : 22.1°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	530.0	2038.5	1706.5	525.0	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 A
 B
 C
 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



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Ph: 7086020945/ 9435192896/ 9395005840

E-mail: contact@rflnt.in ; reliantfoundation2018@gmail.com, Website : www.rflnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-11-2024

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Soil
4	Condition of sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Borrow Area-B
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results: Next Page



Page: 1 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur



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 Ph: 7086020945/9435192896/9395005840
 E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-29
 Sample ID: DFO/FA/25112024/FA-02

Group: Building Materials

1. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample : Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Borrow Area-R

Environmental Conditions during test:

Temperature : 22.1°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	532.5	2039.0	1706.5	528.0	2.64

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



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Ph: 7086020945/ 9435192896/ 9395005840

E-mail: contact@rflnt.in ; reliantfoundation2018@gmail.com, Website : www.rflnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-03-2025

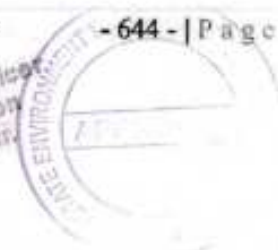
TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/SH
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Dhanabari Gann Ordinary Clay MPA (Plot-E)
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur



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Ph: 7086020945/9435192896/9395005640

E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-26
 Sample ID: DFO/221124/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Okunabari Gaon Ordinary Clay MPA (Plot-E)

Environmental Conditions during test:

Temperature : 22.1°C, Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	525.0	2036.0	1706.5	520.0	2.66

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



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Reliant House: Sun Polo colony, Dipar Boro Path

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Ph: 7086020945/ 0435192896/ 9385005840

E-mail: contact@rft.in ; reliantfoundation2015@gmail.com, Website: www.rft.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-11-2024

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Bhuxahat Gasa Ordinary Clay MPA (Pur-V.G.I&I)
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)



Page 1 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



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 Ahomgaon, Garchuk, Guwahati- 781035 (Assam)
 Ph. 7088020945/9435192896/9395005840

E-mail: contact@rlnt.in ; reliantfoundation2015@gmail.com, Website : www.rlnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-27
 Sample ID: DFO/221134/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 30-02-2025 to 22-02-2025

 Source: Dhanbari Gaon Ordinary Clay MPA (Plot-
 F.G.II&I)

Environmental Conditions during test:

Temperature : 22.9°C , Humidity: 64%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	515.0	2031.0	1706.5	509.5	2.67

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.



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E-mail: contact@rflnt.in ; reliantfoundation2018@gmail.com, Website : www.rflnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Gomari Nala Sand, Gravel & Boulder MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ahomgaon, Garchuk, Guwahati- 781035 (Assam)
Ph: 7086020945/9435192896/ 9395005840

E-mail: contact@rint.in ; reliantfoundation2016@gmail.com, Website : www.rint.in

Discipline: Mechanical Testing
Test Report No: 2411225491810
Sample ID: DFQSG/25112024/SG-01

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The District Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Gomari Nala Sand, Gravel & Boulder MPA
7	Test Sample Supplied by:	Contractor
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Sand, Gravel & Boulder
Type of Test: Loose
Source: Gomari Nala Sand, Gravel & Boulder MPA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
Date of Testing: 20-02-2025 to 20-02-2025
Environmental Condition during test:
Temperature: 21.5°C, Humidity: 68%

TEST RESULTS			
Sl. No.	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.790	15.379	1.55

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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rfal.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Lower Sabasiri 1.5 Ha Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rftd.in ; reliantfoundation2018@gmail.com, Website: www.rftd.in

Discipline: Mechanical Testing
 Test Report No: 2411225907/GA
 Sample ID: DFO/221124/SG-21

Group: Building Materials

Name of Test: **Gradation**
 Type of Sample: **Sand + Gravel**
 Source: **Lower Subsoil 1.5 Ha Sand & Gravel MPA**

Test Method: IS 2386-Part-I-1963
 (Reaffirmed 2021)
 Date of testing: 19-02-2025 To 19-02-2025
 Environmental Conditions during test:
 Temperature : 22.4°C , Humidity: 63%

TEST RESULTS				
Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	274	13.70	13.70	86.30
4.75	784	39.20	52.90	47.10
0.075	937	46.85	90.75	0.25
Pan	5			
Total	2000			

% Boulder = 0.00 %
 % Gravel = 52.90 %
 % Sand = 46.85 %
 % Silt = 0.25 %



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-28
 Sample ID: DFO/25112224/SC/01

Group: Building Materials

I. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample : Sand & Gravel

Date of testing: 19-02-2025 to 21-02-2025

Source: Lower Subansiri 1.5 Ha Sand & Gravel MPA

Environmental Conditions during test:
Temperature : 22.1°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	580.0	2071.0	1706.5	575.0	2.67

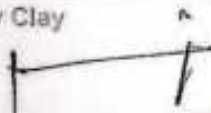
Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

Discipline: Mechanical Testing

Group: Building Materials

Test Report No: 241122771500

Sample ID: DRG/SR/25112124/SG-01

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Lower Subsoil 1.5 Ha Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	"At the Laboratory located in the basement of our premises at the above mentioned address"

1. Name of Test: Bulk Density of Sand Plus Gravel

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)

Type of Test: Loose

Date of testing: 19-02-2025 to 19-02-2025

Source: Lower Subsoil 1.5 Ha Sand & Gravel MPA

Environmental Conditions during test:

Temperature : 21.8°C , Humidity: 64%

TEST RESULTS			
Sl. No.	Weight of Aggregate to fill the Mold in (Kg) (A)	Volume of Mold in (Litre) (B)	Bulk Density in (Kgf/Litre) (A/B)
1	22.580	13.379	1.53

Page: 1 of 1



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website: www.rft.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand + Gravel
4	Condition of Sample: Ok
5	Date of Sample Received: 22-11-2024
6	Source of Material: Lower Subansiri Sand & Gravel MCA
7	Test Sample Supplied by: Customer
8	Test Done at : " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results (Next Page)



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411225478-2
 Sample ID: DFO/22112024/SG-02

I. Name of Test: Specific Gravity of Fine Aggregate Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)
 Type of Sample: Sand & Gravel Date of testing: 19-02-2025 to 21-02-2025
 Source: Lower Subansiri Sand & Gravel MCA Environmental Conditions during test:
Temperature : 22.1°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	710.0	2149.5	1706.5	705.5	2.64

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified, Test Results are Satisfactory.



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing
 Test Report No: 2411225-00100
 Sample ID: (DINSH/25112024/SU-01)

Group: Building Materials

Date of issue of Report: 22-03-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of sample:	OK
5	Date of sample received:	22-11-2024
6	Source of Material:	Lower Submerged Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at:	"At the Laboratory located in the basement of our premises at the above mentioned address"

1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Lower Submerged Sand & Gravel MCA

Test Method: IS 2286-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 19-02-2025 to 19-03-2025
 Environmental Conditions during test:
 Temperature : 21.8°C , Humidity: 64%

TEST RESULTS			
Sl. No	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.740	13.279	1.54

Page: 1 of 1



Minerals: Sand, Gravel, Boulder, Ordinary Clay




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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com. Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: No.2 Chaulimura Kunglar Gama Ordinary Clay MPA (Plot-K)
7	Test Sample Supplied by: Customer
8	Test Done at: " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing
Test Report No: 2411225478-23
Sample ID: DFO/22/12624/SG-02

Group: Building Materials

1. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample : Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: No.2 Chenimora Keogkar Gans Ordinary Clay
MPA (Plot-K)

Environmental Conditions during test:

Temperature : 22.1°C , Humidity: 66%

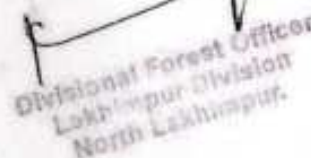
TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	510.0	2025.0	1706.5	506.3	2.64

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.


 Authorized Signatory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay


 Divisional Forest Officer
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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay(SB)
4	Condition of sample: DN
5	Date of Sample Received: 22-11-2024
6	Source of Material: Subansiri River MPA
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-30
 Sample ID: DFO/241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Sahasri River MPA

Environmental Conditions during test:

Temperature : 22.5°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	550.0	3051.0	1706.5	545.0	2.65

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2024

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/SH
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2023
6	Source of Material: Sahasani River Ordinary Clay MPA
7	Test Sample Supplied by: Customer
8	Test Done at: " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing
 Test Report No: 2411225378-24
 Sample ID: DFO/22112024/FA-02

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 30-02-2025 to 22-02-2025

Source: Subansiri River Ordinary Clay MPA

Environmental Conditions during test:

Temperature : 22.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	524.5	2035.0	1706.5	520.5	2.66

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Class No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Minerals: Sand, Gravel, Boulder, Ordinary Clay


 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.

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 Email:contact@rnt.in ; reliantfoundation2018@gmail.com
 www.rnt.in

Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1 Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2 Name of project:	District Survey Report, Lakhimpur District
3 Type of sample:	Ordinary Clay/Silt
4 Condition of Sample:	OK
5 Date of Sample Received:	22-11-2024
6 Source of Material:	1.5 km, Rangamati MPA
7 Test Sample Supplied by:	Customer
8 Test Done at:	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page



Page: 1 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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 www.rnt.in

Test Report

Discipline: Mechanical Testing
 Test Report No: 2411225478-35
 Sample ID: DFOV22112401

Group: Building Materials

1. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: 1.5 ha. Ranganadi MPA

Environmental Conditions during test:

Temperature : 22.5°C . Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	551.5	2052.0	1706.5	546.0	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Class No. 2.4.3. No limits Specified. Test Results are Satisfactory.



Authorized Signatory

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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E-mail: contact@rftl.in ; reliantfoundation2016@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing

Group: Building Material

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand & Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Ranganadi Sand & Gravel NPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411229741-31
 Sample ID: DFO/SG/25112224/01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand & Gravel

Date of testing: 19-02-2025 to 19-02-2025

Source: Raiganadi Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 22.1°C , Humidity: 67%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	540.0	2046.0	1706.5	536.5	2.68

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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[Signature]
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Test Report No: 241123641/BD

Sample ID: DPO/S/G/25112024/SG-01

Date of issue of Report: 23-03-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand & Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Rangasadi Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	** At the Laboratory located in the basement of our premises at the above mentioned address**

1. Name of Test: Bulk Density of Sand & Gravel

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)

Type of Test: Loose

Date of testing: 19-03-2025 to 19-03-2025

Source: Rangasadi Sand & Gravel MPA

Environmental Conditions during test:

Temperature : 23.8°C , Humidity: 64%

TEST RESULTS			
Sl. No.	Weight of Aggregate to fill the Mold W (Kg) (A)	Volume of Mold in (Liters) (B)	Bulk Density in (Kg/Liter) (A/B)
1	23.560	15.179	1.55

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Minerals: Sand, Gravel, Boulder, Ordinary Clay


 Divisional Forest Officer
Lakhimpur Division
Norm Lakhimpur.

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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-11-2024

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand & Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Raaganadi Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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North Lakhimpur.





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Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand, Gravel & Ordinary Clay/ Silt
4	Condition of Sample: Ok
5	Date of Sample Received: 22-11-2024
6	Source of Material: Bhakisanala Sand, Gravel & Ordinary Clay/ Silt MPA
7	Test Sample Supplied by: Customer
8	Test Done at: " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results: Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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 Discipline: Mechanical Testing
 Test Report No: 2411225478-34
 Sample ID: DFO/2211224/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

 Type of Sample : Sand, Gravel & Ordinary Clay/
 Silt

Date of testing: 19-02-2025 to 21-02-2025

 Source: Dhoklesala Sand, Gravel & Ordinary Clay/ Silt
 MPA

 Environmental Conditions during test:
 Temperature : 22.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	535.0	2043.0	1706.5	530.0	2.67

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Authorized Signatory

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 23-03-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Baugandi Ordinary Clay Silt MPA
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)



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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-33
 Sample ID: DFOYDC/25112234/01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Ranganadi Ordinary Clay Silt MPA

Environmental Conditions during test:

Temperature : 22.1°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	580.0	2070.0	1706.5	574.5	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clayfill
4	Condition of sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Rangasadi River Bed Ordinary Clay MPA near Pakhama
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay


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 Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411225478-36
 Sample ID: DFO/OC/25112224/01

 1. Name of Test: **Specific Gravity** Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)
 Type of Sample: **Ordinary Clay/Silt** Date of testing: 19-02-2025 to 21-02-2025
 Source: **Kangasadi River Bed Ordinary Clay MPA near Pahunora** Environmental Conditions during test:
Temperature : 22.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gn)	Weight of Pycnometer containing Sample & filled with Distilled Water (gn)	Weight of Pycnometer filled with Water only (gn)	Weight of Oven Dried Sample (gn)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
I	512.5	2026.0	1706.5	508.0	2.63

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Rangasahi River Ordinary Clay MPA near Begaljan
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results: Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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 Discipline: Mechanical Testing
 Test Report No: 2411225478-37
 Sample ID: DFO/OC/25112224/01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Ordinary Clay/Silt

Date of testing: 20-02-2025 to 22-02-2025

 Source: Ranganadi River Ordinary Clay MPA near
 Bogoljua

 Environmental Conditions during test:
 Temperature : 22.9°C , Humidity: 6%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	525.0	2036.0	1706.5	520.0	2.66

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Authorized Signatory

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-11-2024

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand, Gravel & Boulder
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Regional Sand & Gravel SCA
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results: Next Page



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Minerals: Sand, Gravel, Boulder, Ordinary Clay


 Divisional Forest Officer
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Discipline: Mechanical Testing
 Test Report No: 2411225478-4
 Sample ID: DPO/25112024/SG-04

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Sand, Gravel & Boulder

Date of testing: 19-02-2025 to 20-02-2025

Source: Rangasadi Sand & Gravel MCA

 Environmental Conditions during test:
 Temperature : 22.4°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/(A-(B-C))]
	A	B	C	D	
1	555.0	2054.3	1706.5	549.0	2.63

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Class No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
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E-mail: contact@rfln.in ; reliantfoundation2018@gmail.com, Website : www.rfln.in

Discipline: Mechanical Testing
 Test Report No: 241122907680
 Sample ID: DPOYSG25112024SG-01

Group: Building Materials

Date of Issue of Report: 23-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	Barrier Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	DR
5	Date of Sample Receipt:	23-11-2024
6	Source of Material:	Halgasadi Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

I. Name of Test: Bulk Density of Sand, Gravel & Boulder
 Type of Test: Loose
 Source: Halgasadi Sand & Gravel MCA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 19-02-2025 to 19-02-2025
 Environmental Conditions during test:
 Temperature : 21.8°C , Humidity: 64%

TEST RESULTS			
Sl. No.	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litres) [A/B]
1	23.330	15.379	1.52

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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	224 Ha. 2 No. Dikrong Chapari Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411236801A/GA
 Sample ID: DFO/25112024/SG-09

Name of Test: Gradation Test Method: IS 2386-Part-3-1963 (Revised 2021)
 Type of Sample: Sand + Gravel Date of testing: 19-02-2025 to 19-02-2025
 Source: 2.24 Ha. 2 No. Dikrong Charpot Sand & Gravel MPA Environmental Conditions during test:
 Temperature : 21.7°C, Humidity: 68%

TEST RESULTS				
In Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	390	19.50	19.50	80.50
4.75	744	37.20	56.70	43.30
0.075	836	42.80	99.50	0.50
Pan	10			
Total	2000			

% Boulder = 0.00 %
 % Gravel = 56.70 %
 % Sand = 42.80 %
 % Silt = 0.50 %



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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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Test Report

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411225478-42
 Sample ID: DFO/FA/25112024/SG-01

I. Name of Test: Specific Gravity Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)
 Type of Sample: Sand + Gravel Date of testing: 19-02-2025 to 21-02-2025
 Source: 224 Ha. 2 No. Dikraog Chapori Sand & Gravel Environmental Conditions during test:
 MPA Temperature : 22.8°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	542.5	2047.0	1706.5	538.0	2.66

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No Limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing Group: Bedding Materials
 Test Report No: 34112221998D
 Sample ID: DFO/SG/2511203450141

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Seed Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	234 Hs. 2 No. Dibrong Chapari Seed & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	" At the Laboratory located in the basement of our premises at the above mentioned address"

1. Name of Test: Bulk Density of Seed Plus Gravel Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Type of Test: Loose Date of testing: 22-02-2025 to 22-02-2025
 Source: 234 Hs. 2 No. Dibrong Chapari Seed & Gravel MPA Environmental Conditions during test
 Temperature: 22.7°C, Humidity: 87%

TEST RESULTS			
Sample	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litre) (B)	Bulk Density in (Kg/Litre) (A/B)
1	21.710	15.339	1.54

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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand + Gravel
4	Condition of Sample: Ok
5	Date of Sample Received: 22-11-2024
6	Source of Material: Borrow Area "D-1" at Dikraug River Bed
7	Test Sample Supplied by: Customer
8	Test Done at : " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing
 Test Report No: 2411223066/GA
 Sample ID: DFO/25112024/SG-09

Group: Building Materials

Name of Test: Gradation
 Type of Sample : Sand + Gravel
 Source: Borrow Area "D-1"
 at Dibrang River Bed

Test Method: IS 2386-Part-1-1963
 (Reaffirmed 2021)
 Date of testing: 20-02-2025 to 20-02-2025
 Environmental Conditions during test:
 Temperature : 22.0°C , Humidity: 66%

TEST RESULTS				
Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
30	468	23.40	23.40	76.60
4.75	592	29.60	53.00	47.00
0.075	912	46.60	99.60	0.40
Pan	8			
Total	2000			

% Boulder = 0.00 %
 % Gravel = 53.00 %
 % Sand = 46.60 %
 % Silt = 0.40 %



Authorized Signatory
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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-43
 Sample ID: DFO/FA/25112224/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 19-02-2025 to 21-02-2025

 Source: Borrow Area "D-1"
 at Dikroog River Bed

Environmental Conditions during test:

Temperature : 22.0°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	530.0	2037.0	1706.5	526.5	2.64

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing Group: Building Materials
Test Report No: 2411222993D
Sample ID: DFORG/2511302450-01

Date of Issue of Report: 22-03-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Borrow Area "D-1" at Dihrang River Bed
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1 Name of Test: Bulk Density of Sand Plus Gravel
Type of Test: Loose
Source: Borrow Area "D-1"
at Dihrang River Bed

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
Date of Issuing: 22-03-2025 to 22-03-2025
Environmental Conditions during test:
Temperature : 22.7°C, Humidity: 67%

TEST RESULTS			
Sample	Weight of Aggregate in (Kg) (A)	Volume of Mold (in Litre) (B)	Bulk Density (in Kg/Litre) (A/B)
1	23.650	15.379	1.54

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of Sample: Ok
5	Date of Sample Received: 22-11-2024
6	Source of Material: Dihing River Clay Mining Permit Area
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing
 Test Report No: 2411225478-45
 Sample ID: DFO/FA/25112224/SQ-01

Group: Building Materials

1. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample: Ordinary Clay/ Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Dikroong River Clay Mining Permit Area

Environmental Conditions during test:

Temperature : 22.0°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	527.0	2036.5	1706.5	523.0	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 23-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand, Gravel & Ordinary Clay/ Silt
4	Condition of Sample: DL
5	Date of Sample Received: 23-11-2024
6	Source of Material: Dikrong River Merbil Sand, Gravel & Ordinary Clay Silt MPA
7	Test Sample Supplied by: Customer
8	Test Done at: "At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411225478-49
 Sample ID: DFO/OC/25112224/01

I. Name of Test: Specific Gravity Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample : Sand, Gravel & Ordinary Clay/
Silt Date of testing: 19-02-2025 to 21-02-2025

Source: Dikrong River Merbil Sand, Gravel & Ordinary
Clay Silt MPA Environmental Conditions during test:
Temperature : 22.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	529.5	2039.0	1706.5	525.5	2.67

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No.2units Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	12-11-2024
6	Source of Material:	Dikrug Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411221154-48
 Sample ID: DFO/PA/25112024/SG-01

1. Name of Test: Specific Gravity Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel Date of testing: 30-03-2025 to 22-03-2025
 Source: Dikroog Sand & Gravel MCA Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	560.0	2058.0	1706.5	556.5	2.67

Remarks : Calculations are As per IS:2386-Part -III -1963 (Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing
 Test Report No: 2411268749D
 Sample ID: DFC/SR/25112024/SR-01

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Seed Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Bibring Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Seed Plus Gravel
 Type of Test: Loose
 Source: Bibring Sand & Gravel MCA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 19-02-2025 to 19-02-2025
 Environmental Conditions during test:
 Temperature : 21.8°C, Humidity: 70%

TEST RESULTS			
Sample	Weight of Aggregate in (B) the Mould in (Kg) (A)	Volume of Mould in (Litre) (B)	Bulk Density in (Kg/Litre) (A/B)
1	21.170	15.379	1.38

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 www.rlnt.in

Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Lower Dikrang Meecha Sand, Gravel & Boulder MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411225478-40
 Sample ID: DFO/FA/25112024/SC1-01

1. Name of Test: Specific Gravity Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand, Gravel & Boulder Date of testing: 20-02-2025 to 22-02-2025
 Source: Lower Dikrong Meneba Sand, Gravel & Boulder Environmental Conditions during test:
 MPA Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	590.0	2078.0	1796.5	586.0	2.68

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Test Report

Discipline: Mechanical Testing
 Test Report No: 2411221507080
 Sample ID: DFO/SG/25112024/SG/01

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	ON
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Lower Dikrong Meecha Sand, Gravel & Boulder MPA
7	Test Sample Supplied by:	Customer
8	Test done at:	"At the Laboratory located in the basement of our premises at the above mentioned address"

1. Name of Test: Bulk Density of Sand, Gravel & Boulder
 Type of Test: Loose
 Source: Lower Dikrong Meecha Sand, Gravel & Boulder MPA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 19-02-2025 to 19-02-2025
 Environmental Conditions during test:
 Temperature: 21.0°C, Humidity: 70%

TEST RESULTS			
Sample	Weight of Aggregate to fill the mould in (Kg) (A)	Volume of Mould in (Litre) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.110	13.379	1.50

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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand + Gravel
4	Condition of Sample: Os
5	Date of Sample Received: 22-11-2024
6	Source of Material: Lower Dikrong Sand & Gravel MCA
7	Test Sample Supplied by: Customer
8	Test Done at: " At the Laboratory located in the basement of our premises at the above mentioned address"


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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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Discipline: Mechanical Testing
 Test Report No: 2411225478-37
 Sample ID: DFO/FA/25112024/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Lower Dikroog Sand & Gravel MCA

Environmental Conditions during test:
 Temperature : 21.7°C , Humidity: 65%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	580.0	2068.0	1706.5	576.0	2.64

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay



Divisional Forest Officer
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Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2412208748D
 Sample ID: DFOGQ23113045GJ01

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Seed Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Lower Dikrong Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	"At the Laboratory located in the basement of our premises at the above mentioned address"

1. Name of Test: Bulk Density of Seed Plus Gravel Test Method: IS 2286-Part-II-(1963) (Reaffirmed 2021)
 Type of Test: Loose Date of Issuing: 28-02-2025 to 28-02-2025
 Source: Lower Dikrong Sand & Gravel MCA Environmental Conditions during test:
 Temperature : 31.8°C, Humidity: 78%

TEST RESULTS			
Sample	Weight of Aggregate to fill the mould in (Kg) (A)	Volume of Mould in (Litre) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.190	13.379	1.73

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	North Dikrang Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing
 Test Report No: 2411225478-39
 Sample ID: DFO/SG/25112234/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: North Dikrong Sand & Gravel MCA

 Environmental Conditions during test:
 Temperature : 21.7°C , Humidity: 65%

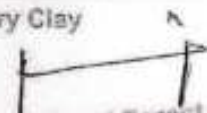
TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
I	520.0	2033.0	1706.5	514.5	2.66

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay


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 Discipline: Mechanical Testing
 Test Report No: 2411224874/00
 Sample ID: DRQ5G051 (20)M5G401

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	North Dikrong Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

 1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: North Dikrong Sand & Gravel MCA

 Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 19-02-2025 to 19-02-2025
 Environmental Conditions during test:
 Temperature : 21.8°C , Humidity: 70%

TEST RESULTS			
Sample	Weight of Aggregate to fill the Mould m (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.190	15.379	1.51

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Authorized Signatory

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Email:contact@rflnt.in ; reliantfoundation2018@gmail.com
 www.rflnt.in

Test Report

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Boulder
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Upper Dikruang Boulder MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.




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E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-41
 Sample ID: DFO/FA/25112024/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Boulder

Date of testing: 20-02-2025 to 22-02-2025

Source: Upper Dikroog Boulder MPA

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	570.0	2064.5	1706.5	568.0	2.68

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Authorized Laboratory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9436192896/9395005840

E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

Discipline: Mechanical Testing
 Test Report No: 2411279469M3
 Sample ID: DP0492/2311222ANL401

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Boulder
4	Condition of sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Upper Dihing Boulder MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	"At the Laboratory located in the basement of our premises at the above mentioned address"

1. Name of Test: Bulk Density of Boulder
 Type of Test: Loose
 Source: Upper Dihing Sand & Gravel MPA

Test Method: IS 2286-Part-01-1963 (Reaffirmed 2021)
 Date of testing: 22-02-2025 to 22-02-2025
 Environmental Conditions during test:
 Temperature : 22.5°C , Humidity: 67%

TEST RESULTS			
Sample	Weight of Aggregate in 100 cc Measur in (Kg) (A)	Volume of Measur in (Litres) (B)	Bulk Density in (Kg/Litres) (A/B)
1	22.980	13.379	1.72

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Authorized Signatory

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.





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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Upper Dikrong Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-38
 Sample ID: DFO/FA/25112024/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 30-02-2025 to 22-02-2025

Source: Upper Dikrong Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
I	555.0	2053.5	1706.5	551.0	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

 Discipline: Mechanical Testing
 Test Report No: 241/224186/01
 Sample ID: DPOVSG251/2024/50/01

Group: Bulkng Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Upper Dikrong Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

 1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Upper Dikrong Sand & Gravel MPA

 Test Method: IS 2286-Part-01-1963 (Reaffirmed 2021)
 Date of testing: 20-02-2025 to 20-02-2025
 Environmental Conditions during test:
 Temperature : 21.8°C , Humidity: 79%

TEST RESULTS			
Sample	Weight of Aggregate to fill the Mould in (Kg) [A]	Volume of Mould in (Litres) [B]	Bulk Density in (Kg/Litre) [A/B]
1	23.140	15.279	1.50

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Authorised Signatory

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/ Silt
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Kalandi BPA
7	Test Sample Supplied by: Customer
8	Test Done at: " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results: Next Page



Page: 1 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rnt.in ; reliantfoundation2016@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-9
 Sample ID: DFO/25112224/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/ Silt

Date of testing: 20-02-2025 to 22-02-2025

Source: Kakoi MPA

Environmental Conditions during test:

Temperature : 21.7°C , Humidity: 65%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	610.0	2087.0	1706.5	605.0	2.64

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Class No. 2.4.3, No limits Specified. Test Results are Satisfactory.




Authorised Signatory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Sand, Gravel & Ordinary Clay/Silt
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Kaket Sand, Gravel & Ordinary Clay/Silt MCA
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results: Next Page



Page: 1 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-1
 Sample ID: DPO/SG/25112224/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)Type of Sample : Sand, Gravel & Ordinary Clay/
Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Kakoi Sand, Gravel & Ordinary Clay/ Silt MCA

Environmental Conditions during test:
Temperature : 22.4°C, Humidity: 63%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	620.0	2095.0	1706.5	613.0	2.65

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rfln.in, reliantfoundation2018@gmail.com, Website : www.rfln.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Kananadi Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
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 E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2411228462/GA
 Sample ID: DFO/25112224/SQ-01

Name of Test: Gradation Test Method: IS 2386-Part-I-1963
 (Reaffirmed 2021)
 Type of Sample: Sand + Gravel Date of testing: 20-02-2025 to 20-02-2025
 Source: Kananadi Sand & Gravel MPA Environmental Conditions during test:
 Temperature : 23.0°C , Humidity: 65%

TEST RESULTS				
Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	475	23.75	23.75	76.25
4.75	1107	55.35	79.10	20.90
0.075	402	20.10	99.20	0.80
Pan	16			
Total	2000			

% Boulder = 0.00 %
 % Gravel = 79.10 %
 % Sand = 20.10 %
 % Silt = 0.80 %



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rflnt.in , reliantfoundation2018@gmail.com, Website : www.rflnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-44
 Sample ID: DFO241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Kaxaxaxi Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 21.4°C , Humidity: 69%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
I	520.0	2033.0	1706.5	516.0	2.67

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

 Discipline: Mechanical Testing
 Test Report No: 2411223308/BD
 Sample ID: DFO/SG/241122/SG-01

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Kanandi Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

 1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Kanandi Sand & Gravel MPA

 Test Method: IS 2386-Part III-1963 (Reaffirmed 2021)
 Date of testing: 21-02-2025 to 21-02-2025
 Environmental Conditions during test:
 Temperature : 21.7°C , Humidity: 67%

TEST RESULTS			
Sample:	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litre) (B)	Bulk Density in (Kg/Litre) [A/B]
1	23.500	15.379	

Page: 1 of 1



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Kananadi Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-18
 Sample ID: DFO/241122/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Kamandi Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 21.4°C , Humidity: 69%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	560.0	2057.0	1706.5	556.0	2.65

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Authorized Signatory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411230955/3D
 Sample ID: DFO/SQ/241123/SO-01

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Kanawadi Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

 1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Kanawadi Sand & Gravel MPA

 Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 21-02-2025 to 21-02-2025
 Environmental Conditions during test:
 Temperature : 21.7°C , Humidity: 67%

TEST RESULTS			
Sample:	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.410	15.379	1.52

Page: 1 of 1



Authorized Signatory

Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Tranjuli Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

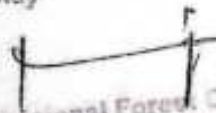
Test Results :Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-20
 Sample ID: DFO/241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 19-02-2025 to 21-02-2025

Source: Tramjuli Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 22.1°C , Humidity: 65%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	610.5	2088.0	1706.5	605.5	2.64

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.





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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

Discipline: Mechanical Testing
 Test Report No: 241125480/3D
 Sample ID: DFO/SG/241125G-01

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Tramjoll Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Tramjoll Sand & Gravel MPA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 22-02-2025 to 22-02-2025
 Environmental Conditions during test:
 Temperature : 21.2°C , Humidity: 78%

TEST RESULTS			
Sample:	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litres) (A/B)
Tramjoll River Sand :	22.260	15.379	1.51

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Minerals: Sand, Gravel, Boulder, Ordinary Clay



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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Bogoli Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 North Lakhimpur.




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 E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-12
 Sample ID: DFO/241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Bogoli Sand & Gravel MCA

Environmental Conditions during test:
Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	570.0	2062.0	1706.5	566.0	2.64

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

 Discipline: Mechanical Testing
 Test Report No: 24122941002
 Sample ID: DFCMG02412294101

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Bogoli Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

 1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Same
 Source: Bogoli Sand & Gravel MCA

Test Method: IS 2386-Part-III-1943 (Reaffirmed 2021)

Date of testing: 20-02-2025 to 20-02-2025

Environmental Condition during test:

Temperature : 24.9°C, Humidity: 42%

TEST RESULTS			
Sample	Weight of Aggregate in 100 (cc) mould in (Kg) (A)	Volume of Mould in (Liter) (B)	Bulk Density in (Kg/Liter) (A/B)
1	23.940	15.379	1.55

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Minerals: Sand, Gravel, Boulder, Ordinary Clay





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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Bogoli Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Ph: 7066020945/9435192696/9395005840

E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 24112202341A
 Sample ID: DRV241122N16/SG-08

Name of Test: Gradation Test Method: IS 2386-Part 3-1963 (Reaffirmed 2021)
 Type of Sample: Sand + Gravel Date of testing: 26-10-2023 to 26-10-2023
 Source: Regd Sand & Gravel MPA Environmental Condition during test: Temperature: 22.1°C, Humidity: 67%

TEST RESULTS				
Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
200	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	293	14.64	14.64	85.36
4.75	315	15.73	30.37	69.63
6.075	1272	64.51	95.49	4.51
Pan	22			
Total	2002			

% Residue = 0.00 %
 % Gravel = 30.37 %
 % Sand = 68.50 %
 % Silt = 1.10 %



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website: www.rnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411225478-12
 Sample ID: DFO/241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Bogoli Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 21.5°C . Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	570.0	2062.0	1706.5	566.0	2.64

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Classe No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing
 Test Report No: 241122001980
 Sample ID: DFOFG0241122001-01

Group: Building Material

Date of Issue of Report: 23-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Seed Plus Gravel
4	Condition of sample:	OK
5	Date of Sample Received:	23-11-2024
6	Source of Material:	Bogoli Seed & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Seed Plus Gravel
 Type of Test: Loose
 Source: Bogoli Seed & Gravel MPA.

Test Method: IS 2386-Part-03-1963 (Reaffirmed 2021)
 Date of testing: 20-02-2025 to 20-02-2025
 Environmental Conditions during test:
 Temperature : 33.0°C , Humidity: 67%

TEST RESULTS			
Sample:	Weight of Aggregate to fill the mould in (Kg) (A)	Volume of mould in (litre) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.900	15.379	

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Minerals: Sand, Gravel, Boulder, Ordinary Clay




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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025


TEST REPORT	
1	Name of Client: The Divisional Forest Officers, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of Sample: OK
5	Date of Sample Received: 22-11-2024
6	Source of Material: Doloket Nagra MPFA
7	Test Sample Supplied by: Customer
8	Test Done at: " At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results (Next Page)



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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 North Lakhimpur.




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E-mail: contact@rnt.in , reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-14
 Sample ID: DFOVFA/25112024/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Ordinary Clay/ Silt
 Source: Dolohat Singra MPA

Date of testing: 20-02-2025 to 22-02-2025
 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
I	610.0	2089.5	1706.5	606.0	2.67

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Singra Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-14
 Sample ID: DFC/FA/25112024/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Sand + Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Singra Sand & Gravel MCA

 Environmental Conditions during test:
 Temperature : 21.5°C, Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	560.0	2057.0	1706.5	556.0	2.65

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411226N/018D
 Sample ID: DFO/SG/25112024SG-01

Group: Building Materials

Date of Issue of Report: 23-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Need Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Neega Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	* At the Laboratory located in the basement of our premises at the above mentioned address*

 1. Name of Test: Bulk Density of Need Plus Gravel
 Type of Test: Loose
 Source: Neega Sand & Gravel MCA

 Test Method: IS 2386-Part-III-1963 (Reaffirmed 2011)
 Date of testing: 21-02-2025 to 21-02-2025
 Environmental Conditions during test:
 Temperature : 21.2°C , Humidity: 47%

TEST RESULTS			
Sample	Weight of Aggregate to fill the mould in (Kg) (A)	Volume of mould in (Litres) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.300	13.279	

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Minerals: Sand, Gravel, Boulder, Ordinary Clay




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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Durpang (Lower) Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website : www.rft.in

 Discipline: Mechanical Testing
 Test Report No: 241122066WGA
 Sample ID: DFO241122/SG-10

Group: Building Materials

Name of Test: Gradation

 Test Method: IS 2386-Part-3-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 22-02-2025 to 22-02-2025

 Source: **Durpang (Lower) Sand & Gravel**
MPA

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 65%

TEST RESULTS				
Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	297	14.85	14.85	85.15
4.75	424	21.20	36.05	63.95
0.075	1262	63.10	99.15	0.85
Pan	17			
Total	2000			

 % Boulder = 0.00 %
 % Gravel = 36.05 %
 % Sand = 63.10 %
 % Silt = 0.85 %


Authorized Signatory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

 Divisional Forest Officer
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 North Lakhimpur
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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

Discipline: Mechanical Testing
 Test Report No: 241122551-6
 Sample ID: DFO/SG/24112406

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand & Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Durping (Lower) Sand & Gravel MPA

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	593.0	2077.5	1706.5	588.0	2.65

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Class No. 2.4.3, No. Jindia Specified, Test Results are Satisfactory.



Authorized Signatory

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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E-mail: contact@rflnt.in ; reliantfoundation2018@gmail.com, Website: www.rflnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411223273000
 Sample ID: 07CVSG25113024/S/G-01

Group: Building Materials

Date of Issue of Report: 23-03-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Seed Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	23-11-2024
6	Source of Material:	Durgang (Lower) Sand & Gravel MPA
7	Test Sample Supplied by:	Customer
8	Test Done at:	"At the Laboratory located in the basement of our premises at the above mentioned address"

 1. Name of Test: Bulk Density of Seed Plus Gravel
 Type of Test: Loose
 Source: Durgang (Lower) Sand & Gravel MPA

 Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Date of testing: 21-03-2025 to 21-03-2025
 Environmental Conditions during test:
 Temperature: 24.2°C, Humidity: 67%

TEST RESULTS			
Sample	Weight of Aggregate in 1000 cc Mold in (Kg) (A)	Volume of Mold in (Liters) (B)	Bulk Density in (Kg/Liter) (A/B)
1	23.90	15.379	

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2015

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2014
6	Source of Material:	Darpang Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.




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Ph: 7086020945/ 9435192896/ 9395005840

E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 22-05-2024

TEST REPORT	
1. Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2. Name of project:	District Survey Report, Lakhimpur District
3. Type of sample:	Sand & Gravel
4. Condition of Sample:	OK
5. Date of Sample Received:	22-11-2024
6. Source of Material:	Deeping Sand & Gravel MCA
7. Test Sample Supplied by:	Customer
8. Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rflnt.in , reliantfoundation2018@gmail.com, Website : www.rflnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411220335-44
 Sample ID: DFOVSG/241124/06

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand & Gravel

Date of testing: 20-02-2025 to 23-02-2025

Source: Durpang Sand & Gravel MCA

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity (D/A-(B-C))
	A	B	C	D	
I	550.0	2051.0	1706.5	546.0	2.66

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



Minerals: Sand, Gravel, Boulder, Ordinary Clay




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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Joyhing Sand & Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

 Discipline: Mechanical Testing
 Test Report No: 3411226055/GA
 Sample ID: DFO/221124/SG-22

Group: Building Materials

Name of Test: Gradation

 Test Method: IS 2386-Part-I-1963
 (Reaffirmed 2021)

Type of Sample: Sand + Gravel

Date of testing: 19-02-2025 To 19-02-2025

Source: Joyking Sand & Gravel MCA

 Environmental Conditions during test:
 Temperature : 22.4°C , Humidity: 63%

TEST RESULTS				
Is Sieve Size (mm)	Weight Retained (gm)	% Weight Retained (gm)	Cumulative % of Retained	% of Passing
300	0	0.00	0.00	100.00
75	0	0.00	0.00	100.00
20	294	14.70	14.70	85.30
4.75	1102	55.10	69.80	30.20
0.075	594	29.70	99.50	0.50
Pan	10			
Total	2000			

 % Boulder = 0.00 %
 % Gravel = 69.80 %
 % Sand = 29.70 %
 % Silt = 0.50 %


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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-8
 Sample ID: DFO/FA/22112024/SC-08

Group: Building Materials

1. Name of Test: Specific Gravity of Fine Aggregate

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand & Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Joyhing Sand & Gravel MCA

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	720.0	2153.0	1706.5	715.5	2.62

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-03-2024

TEST REPORT	
1 Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2 Name of project:	District Survey Report, Lakhimpur District
3 Type of sample:	Sand & Gravel
4 Condition of Sample:	OK
5 Date of Sample Received:	22-11-2024
6 Source of Material:	Jyking Sand & Gravel MCA
7 Test Sample Supplied by:	Customer
8 Test Done at:	"At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay





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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT	
1 Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2 Name of project:	District Survey Report, Lakhimpur District
3 Type of sample:	Ordinary Clay
4 Condition of Sample:	OK
5 Date of Sample Received:	22-11-2024
6 Source of Material:	10 Ha Dighe MPA
7 Test Sample Supplied by:	Customer
8 Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
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North Lakhimpur.

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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rftnt.in ; reliantfoundation2018@gmail.com, Website: www.rftnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-3
 Sample ID: DFG/22112024/5G-03

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay

Date of testing: 19-02-2025 to 21-02-2025

Source: 3.8 Ha Dirgha MPA

 Environmental Conditions during test:
 Temperature : 22.5°C , Humidity: 64%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	618.5	3094.0	1706.5	613.0	2.65

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

Authorized Signatory

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rint.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand + Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Dirgha Sand, Gravel & Ordinary Clay/ Silt MCA
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"


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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-3
 Sample ID: DFO/22112024/SG-03

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Sand & Gravel

Date of testing: 19-02-2025 to 21-02-2025

 Source: Birga Sand, Gravel & Ordinary Clay/ SRI MCA
 Environmental Conditions during test:
 Temperature : 22.5°C , Humidity: 64%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	589.0	2074.0	1706.5	584.5	2.64

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9435192898/9395005840

E-mail: contact@rlnt.in ; reliantfoundation2015@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing
 Test Report No: 241122021BD
 Sample ID: DR0352241122021B1

Group: Building Materials

Date of Issue of Report: 23-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand Plus Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Dirkha Sand, Gravel & Ordinary Clay/Silt MCA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Sand Plus Gravel
 Type of Test: Loose
 Source: Dirkha Sand, Gravel & Ordinary Clay/Silt MCA

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)

Date of testing: 20-02-2025 to 20-02-2025

Environmental Conditions during test:

Temperature: 24°C, Humidity: 62%

TEST RESULTS			
Sample	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (liters) (B)	Bulk Density in (Kg/L) (A/B)
1	23.668	13.379	1.74

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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Sontpur West Division
2	Name of project:	District Survey Report, Sontpur District
3	Type of sample:	Gravel
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Boginadi Gravel MCA
8	Test Sample Supplied by:	Customer
9	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"


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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-46
 Sample ID: DPO/241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Gravel

Date of testing: 20-02-2025 to 22-02-2025

Source: Boglnadi Gravel MCA

 Environmental Conditions during test:
 Temperature : 21.5°C, Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	575.5	2067.5	1706.5	572.5	2.67

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.


 Authorized Signatory
 Page: 1 of 2





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 E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 241227011RD
 Sample ID: DR/SG/241225G-01
 Date of issue of Report: 23-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Gravel
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Regionall Gravel MCA
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Gravel Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)
 Type of Test: Loose Date of Testing: 20-02-2025 to 20-02-2025
 Source: Regionall Gravel MCA Environmental Conditions during test:
 Temperature : 22.0°C, Humidity: 61%

TEST RESULTS			
Sample	Weight of Aggregate to fill the Mould in (Kg) (A)	Volume of Mould in (litre) (B)	Bulk Density in (Kg/Litre) (A/B)
1	22.450	11.574	1.94



Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
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 North Lakhimpur.




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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 18-03-2025

TEST REPORT	
1 Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2 Name of project:	District Survey Report, Lakhimpur District
3 Type of sample:	Ordinary Clay/Silt
4 Condition of Sample:	OK
5 Date of Sample Received:	07-03-2025
6 Source of Material:	Baghead Ordinary Clay/ Silt MPA
7 Test Sample Supplied by:	Customer
8 Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*


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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2411225934-47
 Sample ID: DFO/241122/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Ordinary Clay/Silt

Date of testing: 19-02-2025 to 21-02-2025

Source: Bogiaedi Ordinary Clay/ Silt MPA

 Environmental Conditions during test:
 Temperature : 23.1°C , Humidity: 63%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	505.0	2022.5	1706.5	500.5	2.65

Remarks : Calculations are As per IS:2386-Part-III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.


 Authorized Signatory
 Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Divisional Forest Officer
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E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-03-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	9.0 Ha Kimin Mining Contract Area (R.F. Area)
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing
 Test Report No: 2411225478-11
 Sample ID: DFO/FA/25112024/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Sand, Gravel & Boulder

Date of testing: 20-02-2025 to 22-02-2025

Source: 9.8 Ha Kimin Mining Contract Area (R.F. Area)

 Environmental Conditions during test:
 Temperature : 21.5°C , Humidity: 68%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	590.0	2076.0	1706.5	585.5	2.66

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.



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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rlnt.in , reliantfoundation2018@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing
 Test Report No: 2411251920/00
 Sample ID: DFC/SQ/2111/13/04/00/01

Group: Building Materials

Date of Issue of Report: 22-05-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	OK
5	Date of Sample Received:	22-11-2024
6	Source of Material:	88 Ha Kinla Mining Contract Area (R.F. Area)
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Sand, Gravel & Boulder
 Type of Test: Loose
 Source: 88 Ha Kinla Mining Contract Area (R.F. Area)

Test Method: IS 2386-Part III-1963
 Date of testing: 26-05-2025 to 26-05-2025
 Environmental Conditions during test:
 Temperature : 21.6°C , Humidity: 87%

TEST RESULTS			
Sample	Weight of Aggregate in (kg) the Mould (A)	Volume of Mould in (Litres) (B)	Bulk Density in (kg/Litre) (A/B)
1	22.180	15.379	1.44

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Authorized Signatory

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 Ahomgaon, Garchuk, Guwahati- 781035 (Assam)
 Ph: 7086020945/9435192896/9395005840
 E-mail: contact@rnt.in ; reliantfoundation2018@gmail.com, Website : www.rnt.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 22-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	Ok
5	Date of Sample Received:	22-11-2024
6	Source of Material:	Ghagor Mining Contract Area (RF Area)
7	Test Sample Supplied by:	Customer
8	Test Done at :	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results :Next Page

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 Ph: 7088020945/9435192896/9395005840

E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

 Discipline: Mechanical Testing
 Test Report No: 2411226987-48
 Sample ID: DFO/25112024/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample : Sand, Gravel & Boulder

Date of testing: 19-02-2025 to 20-02-2025

Source: Ghagor Mining Contract Area (RF Area)

 Environmental Conditions during test:
 Temperature : 22.4°C , Humidity: 66%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	325.0	2035.5	1706.5	523.0	2.67

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

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E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing

Group: Building Materials

Test Report No: 2411226915180

Sample ID: DFC/SG/25112024/SG-01

Date of issue of Report: 21-02-2025

TEST REPORT		
1	Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2	Name of project:	District Survey Report, Lakhimpur District
3	Type of sample:	Sand, Gravel & Boulder
4	Condition of Sample:	OK
5	Date of Sample Received:	21-11-2024
6	Source of Material:	Chagar Mining Contract Area (RF Area)
7	Test Sample Supplied by:	Customer
8	Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

1. Name of Test: Bulk Density of Sand, Gravel & Boulder

Test Method: IS 2386-Part-III-1963 (Reaffirmed 2021)

Type of Test: Loose

Date of testing: 19-02-2025 to 19-02-2025

Source: Chagar Mining Contract Area (RF Area)

Environmental Conditions during test:

Temperature : 21.9°C, Humidity: 62%

TEST RESULTS			
Sl. No.	Weight of Aggregate in 500cc Mould in (Kg) (A)	Volume of Mould in (Litres) (B)	Bulk Density in (Kg/Litre) (A/B)
1	23.690	15.379	1.54

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
Lakhimpur Division
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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 16-02-2025

TEST REPORT	
1. Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2. Name of project:	District Survey Report, Lakhimpur District
3. Type of sample:	Ordinary Clay/Silt
4. Condition of Sample:	OK
5. Date of Sample Received:	07-02-2025
6. Source of Material:	Boginali MP's
7. Test Sample Supplied by:	Customer
8. Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results : Next Page

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Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rlnt.in ; reliantfoundation2018@gmail.com, Website : www.rlnt.in

Discipline: Mechanical Testing
 Test Report No: 2409074156-3
 Sample ID: DFOOCS/250907/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 08-03-2025 to 10-03-2025

Source: Boginadi MPA

 Environmental Conditions during test:
 Temperature : 23.7°C, Humidity: 65%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	505.0	2022.5	1706.5	500.5	2.63

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

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Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 16-03-2025

TEST REPORT	
1. Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2. Name of project:	District Survey Report, Lakhimpur District
3. Type of sample:	Ordinary Clay/Silt
4. Condition of Sample:	OK
5. Date of Sample Received:	07-03-2025
6. Source of Material:	Bokhiong River Sagarthar Hantapur area
7. Test Sample Supplied by:	Customer
8. Test Done at:	* At the Laboratory located in the basement of our premises at the above mentioned address*


Test Results: Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rnt.in, reliantfoundation2018@gmail.com, Website: www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2403074126-4
 Sample ID: DF1/C/S/250307 SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 08-03-2025 to 10-03-2025

Source: Dikhrong River Simgathar Hastapur area

 Environmental Conditions during test:
 Temperature : 23.4°C, Humidity: 70%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	503.0	2021.0	1706.5	498.5	2.64

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021, Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

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 Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rftl.in ; reliantfoundation2018@gmail.com, Website : www.rftl.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 16-03-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Soil
4	Condition of Sample: OK
5	Date of Sample Receipt: 07-03-2025
6	Source of Material: Lower Dikrang Dooaghill 6588 grant area
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address*

Test Results (Next Page)

Page 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Ph: 7086020945/9435192896/9395005840
 E-mail: contact@rnt.in; reliantfoundation2015@gmail.com, Website: www.rnt.in

Discipline: Mechanical Testing Group: Building Materials
 Test Report No: 2403074156-1
 Sample ID: DFO/O/S/250307/SG-01

1. Name of Test: **Specific Gravity** Test Method: IS 2386-Part-III-1963
(Reaffirmed 2021)
 Type of Sample: **Ordinary Clay/Silt** Date of testing: 08-03-2025 to 10-03-2025
 Source: **Lower Dikrong Daogibil 6508 grant area** Environmental Conditions during test:
Temperature : 23.6°C , Humidity: 67%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D/A-(B-C)]
	A	B	C	D	
1	527.0	2056.0	1706.5	522.5	2.65

Remarks : Calculations are As per IS:2386-Part -III -1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.


 Anjan Kumar Borah
 Authorised Signatory
 Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 19-03-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/Silt
4	Condition of Sample: OK
5	Date of Sample Received: 07-03-2025
6	Source of Material: Lower Dihring Range Grass area
7	Test Sample Supplied by: Customer
8	Test Done at: "At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results : Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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 Ph: 7086020945/9435192896/9395005840

E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website : www.rntd.in

 Discipline: Mechanical Testing
 Test Report No: 2407074156-2
 Sample ID: DFO/OCS/250107/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 08-03-2025 to 10-03-2025

Source: Lower Dikrong Bango Gaon area

 Environmental Conditions during test:
 Temperature : 23.5°C, Humidity: 87%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D.A.(B-C)]
	A	B	C	D	
1	503.5	2020.0	1706.5	499.5	2.63

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Class No. 2.4.3, No limits Specified. Test Results are Satisfactory.

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Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rft.in ; reliantfoundation2018@gmail.com, Website: www.rft.in

Discipline: Mechanical Testing

Group: Building Materials

Date of issue of Report: 19-03-2025

TEST REPORT	
1	Name of Client: The Divisional Forest Officer, Lakhimpur Division
2	Name of project: District Survey Report, Lakhimpur District
3	Type of sample: Ordinary Clay/SH
4	Condition of Sample: OK
5	Date of Sample Received: 07-03-2025
6	Source of Material: Gubbare River Baliganj Area
7	Test Sample Supplied by: Customer
8	Test Done at: * At the Laboratory located in the basement of our premises at the above mentioned address.*

Test Results: Next Page

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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Ph: 7086020945/9435192896/9395005840

E-mail: contact@rnt.in | reliantfoundation2018@gmail.com, Website: www.rnt.in

Discipline: Mechanical Testing
 Test Report No: 2103074156-5
 Sample ID: DR-0008/250307/SG-01

Group: Building Materials

1. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 08-03-2025 to 10-03-2025

Source: Gabharu River Baligaon Area

 Environmental Conditions during test:
 Temperature : 25.7°C , Humidity: 63%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D(A-B-C)]
	A	B	C	D	
1	304.5	2023.3	1706.5	499.0	2.66

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

Asish Naha
 Authorized Signatory

Page: 2 of 2

Minerals: Sand, Gravel, Boulder, Ordinary Clay



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E-mail: contact@rint.in ; reliantfoundation2018@gmail.com, Website: www.rint.in

Discipline: Mechanical Testing

Group: Building Materials

Date of Issue of Report: 18-03-2025

TEST REPORT	
1 Name of Client:	The Divisional Forest Officer, Lakhimpur Division
2 Name of project:	District Survey Report, Lakhimpur District
3 Type of sample:	Ordinary Clay/SH
4 Condition of Sample:	OK
5 Date of Sample Received:	07-03-2025
6 Source of Material:	Gabharu Rice Desert Grass Area
7 Test Sample Supplied by:	Customer
8 Test Done at:	" At the Laboratory located in the basement of our premises at the above mentioned address"

Test Results (Next Page)

Page: 1 of 2



Minerals: Sand, Gravel, Boulder, Ordinary Clay

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E-mail: contact@rlnt.in ; reliantfoundations2015@gmail.com Website : www.rlnt.in

Discipline: Mechanical Testing
 Test Report No: 2403071156-6
 Sample ID: DFGDCS/250307/SG-01

Group: Building Materials

I. Name of Test: Specific Gravity

 Test Method: IS 2386-Part-III-1963
 (Reaffirmed 2021)

Type of Sample: Ordinary Clay/Silt

Date of testing: 08-03-2025 to 10-03-2025

Source: Gahbaru River Deori Gaon Area

 Environmental Conditions during test:
 Temperature : 23.5°C , Humidity : 65%

TEST RESULTS					
Sl. No.	Weight of Saturated Surface Dry Sample (gm)	Weight of Pycnometer containing Sample & filled with Distilled Water (gm)	Weight of Pycnometer filled with Water only (gm)	Weight of Oven Dried Sample (gm)	Specific Gravity [D(A)-(B-C)]
	A	B	C	D	
1	503.0	2021.0	1706.5	499.5	2.65

Remarks : Calculations are As per IS:2386-Part-III-1963 Reaffirmed 2021 ,Clause No. 2.4.3, No limits Specified. Test Results are Satisfactory.

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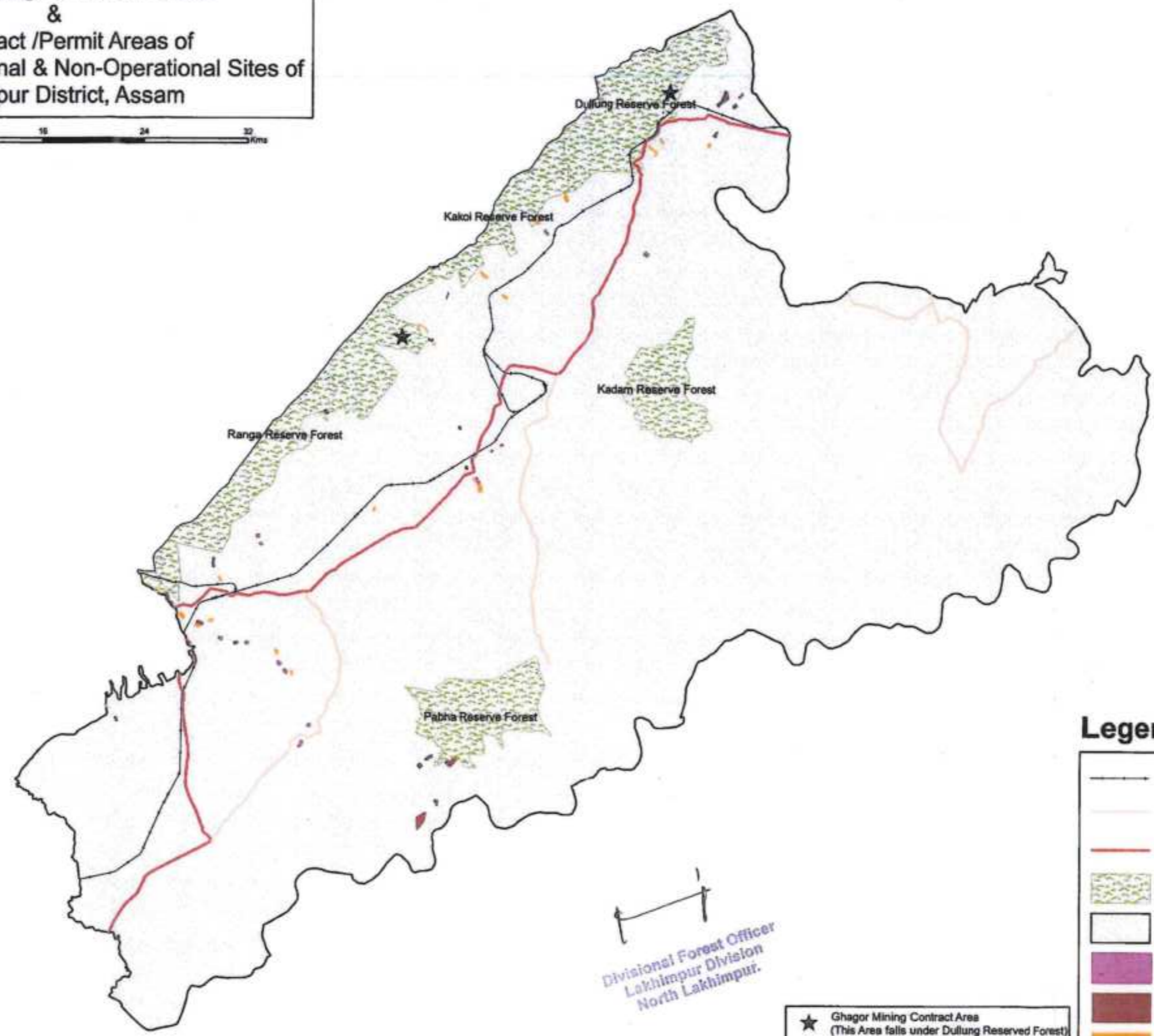
Minerals: Sand, Gravel, Boulder, Ordinary Clay

Divisional Forest Officer
 Lakhimpur Division
 North Lakhimpur.

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Map Showing Reserved Forest & All Contract /Permit Areas of Proposed,Operational & Non-Operational Sites of Lakhimpur District, Assam



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Lakhimpur Division
North Lakhimpur.

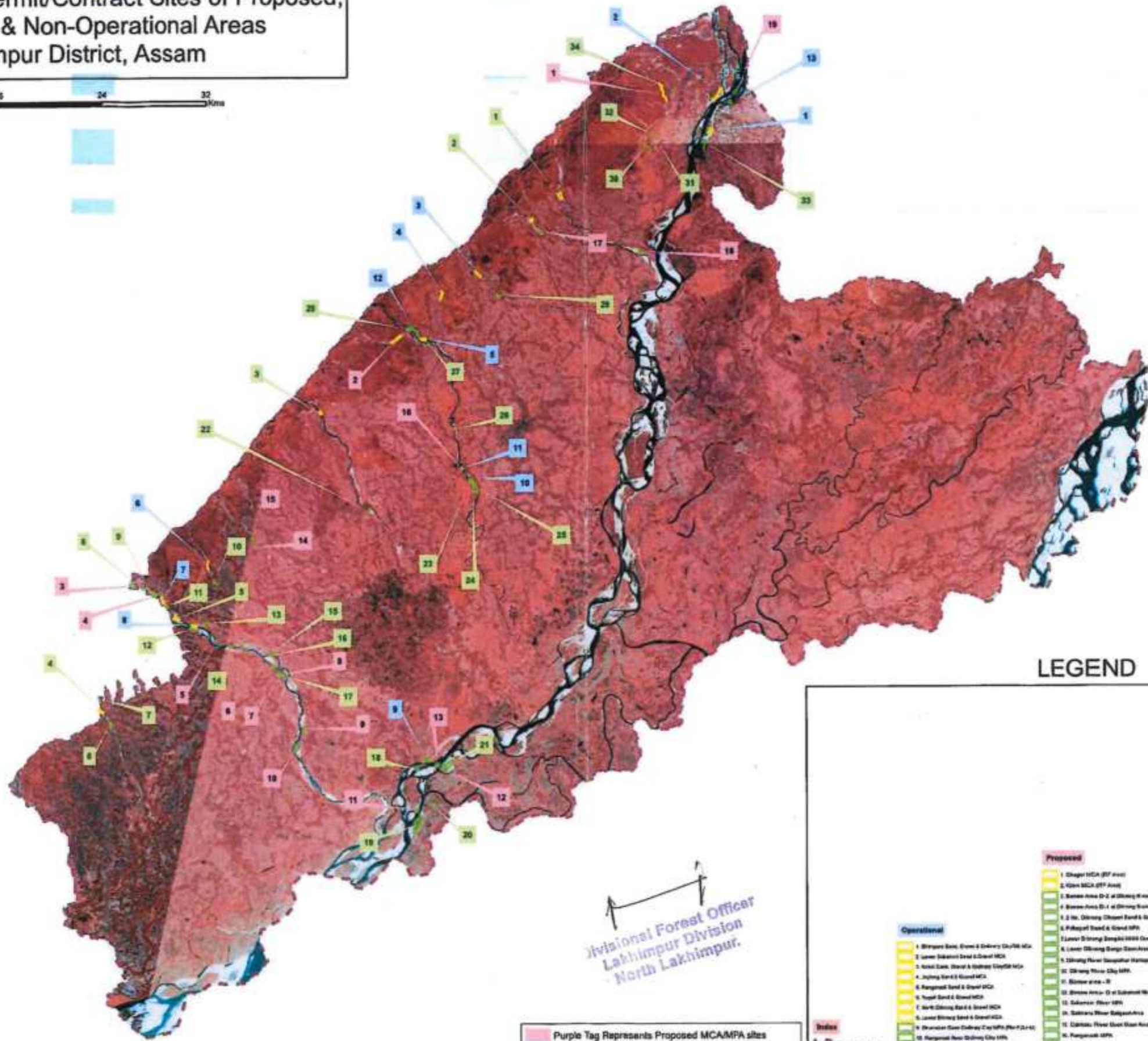
- ★ Ghagor Mining Contract Area
(This Area falls under Dullung Reserved Forest)
- ★ Kamin Mining Contract Area
(This Area falls under Ranga Reserved Forest)

Legend

- Railway Line
- State Highway
- National Highway
- Reserved Forest
- District Boundary
- Proposed Sites
- Operational Sites
- Non-Operational Sites



Map Showing All Permit/Contract Sites of Proposed, Operational & Non-Operational Areas Lakhimpur District, Assam



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North Lakhimpur.

LISS IV Imagery
Date: 10-3-2024
Source: Bhoonidhi

Purple Tag Represents Proposed MCA/MPA sites
Blue Tag Represents Operational MCA/MPA sites
Green Tag Represents Non-Operational MCA/MPA sites

LEGEND

Operational	Proposed	Non-Operational
1. Shingrai River, Dohri & Dohri Clay/SH MPA	1. Shingrai MCA (27 Area)	1. Shingrai Clay MCA
2. Lower Dohri Clay & Dohri MCA	2. Upper MCA (27 Area)	2. Shingrai Sand, Gravel & Shingrai Clay/SH MCA
3. Lower Dohri Clay & Dohri MCA	3. Lower Area D-2 of Shingrai River Bed	3. Shingrai Sand & Gravel MCA
4. Juying Sand & Gravel MPA	4. Shingrai River Channel Sand & Gravel MPA	4. Shingrai Sand & Gravel MCA
5. Rangasand Sand & Gravel MPA	5. Rangasand Sand & Gravel MPA	5. Shingrai (Lower) Sand & Gravel MPA
6. Rangasand Sand & Gravel MPA	6. Lower Shingrai River Sand Area	6. Upper Shingrai Sand & Gravel MPA
7. Rangasand Sand & Gravel MPA	7. Rangasand Sand & Gravel MPA	7. Rangasand Sand & Gravel MPA
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34. Rangasand Sand & Gravel MPA	34. Rangasand Sand & Gravel MPA	34. Rangasand Sand & Gravel MPA



Table 1: Details of Mining Permit/ Contract area with details Name & Address of the Lessee, location, Environmental Clearance and other information

Sl No	Name of mining Permit/ Contract Area	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining lease Grant Order No. & Date	Area of Mining lease (ha)	Period of Mining Lease (Initial)		Period of Mining Lease (1 st /2 nd renewal)		Date of Commencement of Mining Operation	Status (Working/Non-working/Temp. Working for dispatch, etc.)	Captiv e/ Non-Captiv e	Obtained Environmental Clearance (yes/No), if Yes Letter No. with date of grant of EC	Location of the Mining Lease (Latitude & Longitude)		Method of Mining (opencast/underground)	Remarks
							From	To	From	To					16	17		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1	Lower Subansiri Sand & Gravel MCA	Sand & Gravel	Sanjoy Kr. Nahata	R.J & Sons Marketing Pvt Ltd., R.K Path Itachali, Amolapatty, cont. No. 9613707855	FLKT/B/Work Order/ Lower Subansiri S & G MCA/2021/354 5-46, dtd. 26/08/2021	24	26-08-2021	25-08-2028	-	-	26-08-2021	Working	Non Captiv e	Yes. Letter No. SEIAA.923/2019/EC/18/14 27, dtd. 22/04/2021	N27° 27'55.14" E94° 15'41.34" N27° 27'51.54" E94° 15'46.68" N27° 27'23.52" E94° 15'17.40" N27° 27'19.02" E94° 15'21.30"	Opencast	Operative	
2	Bhimpara Sand, Gravel & Earth MCA	Sand, Gravel & Ordinary Clay	Ranadev Saikia	Ward No. 7, P.O & P.S North Lakhimpur, Lakhimpur, 7002319881	FLKT/B/Work Order/ Bhimpara MCA/2023/836 -37, dtd. 13/02/2023	7.5	13-02-2023	09-02-2030	-	-	13-02-2023	Working	Non Captiv e	Yes. Letter No. SEIAA.1231/2020/EC/11 /1 124, dtd.30-09-2020	N27°26'15.60 " E94°15'18.20 " N27°26'15.60 " E94°15'13.70 " N27°26'2.80" E94°15'13.80 " N27°26'8.17" E94°15'15.65 "	Opencast	Operative	
3	Ranganadi Sand & Gravel MCA	Sand, Gravel & Boulder	Jiten Kalita	Gobimpur. P.O & PS Laluk, Lakhimpur, 8723935135	FLKT/B/Work Order/Rangana diS & G MCA/2020/419 6-97836-37, dtd. 20/10/2020	4.95	20-10-202	19-10-2027	-	-	20-10-202	Working	Non Captiv e	Yes. Letter No. SEIAA.2000/2022/EC/1 95 2-A, dtd.02-02-2024	N27°17'49.13 " E94°01'31.39 " N27°17'44.09 " E94°01'30.28 " N27°17'42.55 " E94°01'42.76 " N27°17'48.60 " E94°01'42.50 "	Opencast	Operative	
4	Lower Dikrong Sand & Gravel MCA	Sand & Gravel	Ajit Baruah	Ranabari, P.O Singra, Dolahat Bazar Road, Lakhimpur, 7086851751	FLKT/B/Work Order/Lower Dikrong S & G MCA/2022/813 7-38, dtd. 08/12/2022	6	08-12-2022	07-12-2029	-	-	08-12-2022	Working	Non Captiv e	Yes. Letter No. SEIAA.2012/2022/EC/1 87 6-A, dtd.05-12-2022	N27.102619° E93.845252° N27.101475° E93.844794° N27.101314° E93.849091° N27.100000° E93.848528°	Opencast	Operative	
5	North Dikrong Sand & Gravel MCA	Sand & Gravel	Bishnu Pratim Borah	Balipukhuri, P.O Dupang, Lakhimpur 9707197465	FLKT/B/Work Order/North Dikrong S & G MCA/2024/195 9-60, dtd. 23/04/2024	4.91	23-04-2024	22-04-2031	-	-	23-04-2024	Working	Non Captiv e	Yes. Letter No. SEIAA.3379/2023/EC/2 06 4-A, dtd.04-04-2023	N27.121803° E93.821242° N27.121842° E93.820364° N27.117078° E93.821398° N27.117294° E93.822454°	Opencast	Operative	

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6	Dikrong Sand & Gravel MCA	Sand & Gravel	Ranade v Saikia	Ward No. 7, P.O & P.S North Lakhimpur. Lakhimpur, 7002319881	FLKT/B/Work Order/ Dikrong S & G MCA/2023/124 9-50, dtd. 28/02/2023(LO I)	10	-	-	-	-	-	-	Non Captive	-	N27°6'26.280 "	E93°49'49.19 9"	Opencast	Non Operative. The Gauhati High Court issued an order on 09/02/2024 in case WP(C)/1466/2023, which directs the Dikrong S & GMCA matter to be put through a fresh tender process. Following this, Sri Ranadev Saikia has filed a case No. LA(Civil)/1046/2024 in the same court, seeking a review of the order issued on 09/02/2024 in case WP(C)/1466/2023.	
															N27°6'31.975 "	E93°49'53.82 8"			
															N27°6'21.928 "	E93°50'6.389 "			
7	Kakoi Sand, Gravel & Earth MCA	Sand, Gravel & Ordinary Clay	Rajib Sarma h	Kamalaboria Gaon, P.O Phulnarhat, Lakhimpur, 9101225720	FLKT/B/Work Order/Kakoi S & G MCA/2019/321 8-19, dtd. 23/05/2019	4.5	23-05-2019	22-05-2026	-	-	23-05-2019	-	Non Working	Non Captive	Yes. Letter No. SEIAA.862/2018/EC/24, dtd.25-04-2019	E93°49'50.565"	N27°6'30.320"	Opencast	As the EC expired MCA is Non Operative Matter is under the Court jurisdiction (No. W.P. (C) 6177/ 2024 (Sri Rajib Sarmah – Vs- The State of Assam)
																E93°49'53.027"	N27°6'31.397"		
																E93°50'8.251"	N27°6'17.585"		
																E93°50'6.963"	N27°6'16.052"		
																E93°49'58.426"	N27°6'25.492"		
8	Dorpang Sand & Gravel MCA	Sand & Gravel	Bishnu Prati m Borah	Balipukhuri, P.O Dorpang, Lakhimpur 9707197465	FLKT/B/Work Order/Dorpang S & G MCA/2017/425 7-58, dtd. 24/08/2017	5.2	24-08-2017	21-08-2024	-	-	24-08-2017	-	Non Working	Non Captive	Yes. Letter No. SEIAA.838/2017/EC/2024/ 573 dtd.09-08-2017 and SEIAA.3035/2022/EC/1743, dtd.14-07-2022	N27°2'43.94"	E93°46'22.03 "	Opencast	As the EC expired, the MCA is Non Operative
																N27°2'42.42"	E93°46'16.66 "		
																N27°2'34.36"	E93°46'28.54 "		
																N27°2'36.21"	E93°46'33.48 "		
9	Bogoli Sand & Gravel MCA	Sand & Gravel	AMDCL	Khanj Bhawan, Dispur, Guwahati-6, 9957617391	FLKT/B/Work Order/ Bogoli S & G MCA/2022/316 4-65, dtd. 24/06/2022	3	24-06-2022	22-06-2029	-	-	24-06-2022	-	Working	Non Captive	Yes. Letter No. SEIAA.2092/2022/EC/1734-A, dtd.04-06-2022	N27°08'45.935"	E93°51'27.608"	Opencast	Operative
																N27°08'45.766"	E93°51'29.498"		
																N27°08'24.749"	E93°51'27.828"		

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																		N27°08'25.152"	E93°51'29.488"		
10	Singra Sand & Gravel MCA	Sand & Gravel	Bhab en Baih ng	Haribor Naharani, P.o Haribor Naharani P.S Luluk, Lakhimpur 9854948943	B/Work Order/Singra S & G MCA/13-20/2014/4025-26, dtd. 17-09-2014	6	17-09-2014	16-09-2021	--	17-09-2014	Not Working	Non Captiv e	Yes. Letter No. SEIAA.251/2014/50-A dtd.10-09-2014 and SEIAA.1720/2021/EC/11/1 433, dtd.07-05-2021	N27°14'53.01 5"	E93°56'47.41 0"	Opencast	As the EC expired, the MCA is Non Operative				
													N27°14'46.11 8"	E93°56'52.71 9"							
													N27°14'43.90 3"	E93°56'47.59 4"							
													N27°14'50.76 3"	E93°56'43.02 0"							
11	Joyhing Sand & Gravel MCA	Sand & Gravel	San kar Char an Das	North Lakhimpur, Lakhimpur 9859158793	FLKT/B/Work Order/ Joyhing S & G MCA/2022/443-44, dtd. 04/02/2022	4.46	04-02-2022	03-02-2029		04-02-2022	Working	Non Captiv e	Yes. Letter No. SEIAA.1948/2021/EC/10/1 636-A, dtd.29-01-2022	N27°19'45.00 "	E94°2'28.80"	Opencast	Operative				
													N27°19'43.81 "	E94°2'27.10"							
													N27°19'27.10 "	E94°2'26.80"							
													N27°19'40.37 "	E94°2'32.47"							
12	Dirgha Sand, Gravel & Earth MCA	Sand & Gravel	Heman ga Cheti a	Vill Gohaintekela , P.O Azad, Lakhimpur 6900929080	FLKT/B/Work Order/ Dirgha S & G MCA/2017/375-1-52, dtd. 26/07/2017	4.84	26-07-2017	19-07-2024		26-07-2017	Not Working	Non Captiv e	Yes. Letter No. LDC.107/En v. Clearance/2017/302, dtd.05-06-2017	N27°22'41.16 0"	E94°6'50.580 "	Opencast	As the EC expired, the MCA is Non Operative				
													N27°22'33.66 0"	E94°6'51.660 "							
													N27°22'31.20 0"	E94°6'45.600 "							
													N27°22'36.36 0"	E94°6'42.480 "							
13	Boginadi Gravel MCA	Gravel	AMDC L	Khanij Bhawan, Dispur, Guwahati-6, 9957617391	FLKT/B/Work Order/ Boginadi Gravel MCA/2023/713-14, dtd. 07-02-2023	8.8	01-07-2024	30-06-2023	--	01-07-2024	Working	Non Captiv e	Yes. Letter No. SEIAA.3095/2022, dtd.13-06-2024	N27°23'41.81 "	E94°08'10.66 "	Opencast	Operative				
													N27°23'38.7"	E94°08'2.50"							
													N27°23'26.50 "	E94°08'9.40"							
													N27°23'29.10 "	E94°08'15.42 "							
14	Ghagor Mining Contract Area (RF Area) (Proposed Area)	Sand, Gravel & Boulder				9						Non Captiv e	No	94.220892	27.456726	Opencast	Proposed Area				
														94.220453	27.458292						
														94.219876	27.459209						
														94.218283	27.460178						
														94.218067	27.461354						
														94.218440	27.462197						
														94.218240	27.462825						
														94.217083	27.464199						
														94.217140	27.465209						
														94.216887	27.465390						
														94.216638	27.466140						
														94.217023	27.466826						
														94.216899	27.467092						
														94.215875	27.467637						
														94.215148	27.467977						
														94.215051	27.468462						
														94.214677	27.468705						
														94.214242	27.468637						

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													N26°58'1.16"		E94° 0'57.18"			
19	Subansiri River Ordinary Clay MPA	Ordinary Clay	S.P Singla Constructi on Pvt. Ltd.	Vill: Bhalukmora, P.O Goalgaon, Balichapori, Dist: Majuli, 7896004531	-	21.58	09-03-2023	08-03-2025	--	--	22-11-2023	Non Working due to non submission of indent	Non Captiv e	No	N27.007858°	E94.045176°	Opencast	Non-operative
														N27.004515°	E94.038464°			
														N27.002094°	E94.042004°			
														N27.007094°	E94.047173°			
20	No.2 Chenimora Kongkur Gaon Ordinary Clay MPA (Plot-L)	Ordinary Clay	S.P Singla Constructi on Pvt. Ltd.	Vill: Bhalukmora, P.O Goalgaon, Balichapori, Dist: Majuli, 7896004531	-	2.64	22-09-2023	21-09-2025	--	--	21-10-2024	Working	Non Captiv e	No	N26°58'32.02"	E94° 1'53.68"	Opencast	Non-operative
														N26°58'42.66"	E94° 1'54.22"			
														N26°58'40.83"	E94° 1'48.29"			
														N26°58'43.26"	E94° 1'46.09"			
21	Dhunabari Gaon Ordinary Clay MPA (Plot-E)	Ordinary Clay	S.P Singla Constructi on Pvt. Ltd.	Vill: Bhalukmora, P.O Goalgaon, Balichapori, Dist: Majuli, 7896004531	-	5.03	26-10-2023	25-10-2025	--	-	--	Non Working due to non submission of indent	Non Captiv e	No	N27°0'10.30"	E94° 1'0.10"	Opencast	Non-operative
														N27°0'14.95"	E94° 1'5.93"			
														N27°0'8.56"	E94° 1'11.34"			
														N27°0'4.56"	E94° 1'4.93"			
22	Dhunabari Gaon Ordinary Clay MPA (Plot-F,G,H&I)	Ordinary Clay	S.P Singla Constructi on Pvt. Ltd.	Vill: Bhalukmora, P.O Goalgaon, Balichapori, Dist: Majuli, 7896004531		3.68	26-10-2023	25-10-2025			09-12-2023	Not Working due to non submission of indent	Non Captiv e	No	Plot-F		Opencast	Operative
														27° 0'	94° 1'			
														26.690" N	22.120" E			
														27° 0'	94° 1'			
														24.990" N	23.060" E			
														27° 0'	94° 1'			
														25.680" N	26.500" E			
														27° 0'	94° 1'			
														28.040" N	25.180" E			
														Plot-G				
														27° 0'	94° 1'			
														28.700" N	25.730" E			
														27° 0'	94° 1'			
														30.750" N	28.920" E			
														27° 0'	94° 1'			
														26.000" N	27.530" E			
														27° 0'	94° 1'			
														27.950" N	31.030" E			
														Plot-H				
														27° 0'	94° 1'			
														31.840" N	29.900" E			
														27° 0'	94° 1'			
														32.710" N	33.450" E			
														27° 0'	94° 1'			
														30.210" N	35.980" E			
														27° 0'	94° 1'			
														29.010" N	31.580" E			

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Sl. No.	Description	Material	Supplier/Contractor	Area (Ha)	Start Date	End Date	Status	Remarks	Type	Plot-I		Remarks
										North	East	
23	Lower Subansiri 1.5 Ha Sand & Gravel MPA (Proposed Area)	Sand & Gravel	M/s Purbanchal Supplier & Contractor	1.5			Non Captive	No	Opencast	27° 0' 33.150" N 27° 0' 35.250" N 27° 0' 32.680" N 27° 0' 30.500" N	94° 1' 34.610" E 94° 1' 37.670" E 94° 1' 39.700" E 94° 1' 37.090" E	Proposed MPA.
24	Ranganadi Sand & Gravel MPA	Sand & Gravel	Basanta Rajkhowa	1	02-07-2018	01-07-2020	Non Working	Letter No. LDC 30/ECC/2018/187, dtd 02-07-2018	Opencast	N27°17.586' N27°17.594' N27°17.589' N27°17.573'	E94°01.796' E94°01.802' E94°01.883' E94°01.876'	As the EC expired, the MPA is Non Operative
25	Ranganadi Sand & Gravel MPA	Sand & Gravel	Jiten Kalita	4.84	31-05-2023	30-05-2025	Working	Letter no. SELAA.3418/2023/EC/2114, dtd. 29/05/2023	Opencast	N27°19' 28.30" N27°19' 28.00" N27°19' 34.20" N27°19' 34.90"	E94°5' 20.198" E94°5' 19.900" E94°5' 08.599" E94°5' 10.702"	Operative
26	Ranganadi Earth MPA	Ordinary Clay	M/s DRA-TKEE(JV)	8.73	03-06-2017	02-06-2019	Non Working	Letter no. SELAA.795/2016/EC/09, dtd. 03/06/2017	Opencast	N27°11'45.45 0" N27°11'48.28 0" N27°11'29.17 9" N27°11'29.43 0"	E94°3'55.220 " E94°4'1.780" E94°4'6.943" E94°3'57.820 "	As the EC expired, the MPA is Non Operative
27	Ranganadi Earth MPA	Ordinary Clay	M/s DRA-TKEE(JV)	4.5	08-09-2021	07-09-2022	Non Working	Letter no. SELAA.1771/2021/EC/20/1517, dtd. 08/09/2021	Opencast	N27°11'54.09 " N27°11'57.32 " N27°11'45.89 " N27°11'47.89 "	E94°3'49.73" E94°3'52.69" E94°3'0.16" E94°3'2.85"	As the EC expired, the MPA is Non Operative. Mining operation was approved before received of EC against linear projects

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28	Ranganadi Earth MPA	Ordinary Clay	Rajib Doley	Vill Ligrimukh Samun Gaon, P.O Dafalakata, Lakhimpur, 9435007466	--	1.4	05-02-2021	04-02-2023	--	06-03-2021	Non Working	Non Captive	Letter no. SEIAA.1487/2020/EC/12/1272, dtd. 05/02/2020	N27°12'1.82" E94°3'46.69"	N27°11'58.33" E94°3'48.95"	N27°11'56.49" E94°3'46.45"	N27°12'0.04" E94°3'42.78"	Opencast	As the EC expired, the MPA is Non Operative
29	Ranganadi River Bed Ordinary Clay MPA near Pahumora	Ordinary Clay	Dhrubajyoti Saikia	Ward No. 14, P.o Khelmati, North Lakhimpur, 7002319881	--	1.2	19-05-2023	18-05-2025	--	24-05-2023	Working	Non Captive	Letter no. SEIAA.3430/2022/EC/2089-A, dtd. 17/05/2023	N27.207228 E94.057042	N27.206908 E94.056361	N27.208094 E94.055708	N27.208483 E94.056431	Opencast	Operative
30	Ranganadi River Ordinary Clay MPA near Bogolijan	Ordinary Clay	J.C. Constructon Pvt. Ltd.	No. 2nd Byelane, Lakhinagar, RGB Road, Ghy-5, 7578040359	--	1.3	07-02-2023	06-02-2025	--	14-02-2023	Working	Non Captive	Letter no. SEIAA.3278/2022/EC/1956-A, dtd. 02/02/2023	N27°14'9.70" E94°3'1.62"	N27°14'9.73" E94°3'4.68"	N27°14'4.57" E94°3'2.71"	N27°14'4.71" E94°3'5.65"	Opencast	Non operative
31	Ranganadi River Ordinary Clay MPA	Ordinary Clay	Om Prakash Agarwal	Ward No.14, Bantow, P.O. Khelmati, Lakhimpur, 7399003141	--	1.67					Non Working	Non Captive	No	N27° 12' 0.525" E94°3'47.627"	N27°11'56.709" E94°3'48.743"	N27°11'58.325" E94°3'53.653"	N27°12'2.011" E94°3'52.113"	Opencast	Operative.
32	1.5ha RanganadiMP A (Proposed Area)	Ordinary Clay	Lakhi Chutia	H.No. 14, Khelmati, P.O Khelmati, Lakhimpur, 7896223342	--	1.5					Non Working	Non Captive	No	N27°11'56.32" E94°3'54.46'	N27°11'52.87" E94°3'58.69'	N27°11'50.52" E94°3'56.16'	N27°11'54.09" E94°3'52.25'	Opencast	The Proposed MPA is Non Working due to non received of NOC, Mining Plan, and EC
33	Upper Dikrong Boulder MPA	Boulder	M/s Shivam Transcon Pvt. Ltd	59 Narengi Road, Geetanagar, Guwahati 9957997368	--	1.5	16-07-2022	15-07-2024	--	07-01-2023	Non Working	Non Captive	Letter No. SEIAA.2050/2022/EC/1747-A, dtd. 14-07-2022	N27.12732° E93.80834°	N27.128372° E93.806534°	N27.127925° E93.806018°	N27.12686° E93.80787°	Opencast	As the EC expired, the MPA is Non Operative
34	Upper Dikrong Sand & Gravel MPA	Sand & Gravel	Abdul Rafique	C.D. Road, Ward No.4, P.O & P.S North Lakhimpur, 9435116542	--	2	09-08-2019	08-08-2021	--	11-09-2019	Non Working	Non Captive	Letter No. SEIAA.892/2019/EC/7, dtd. 09-08-2019 & SEIAA.892/2019/EC/19/10 85, dtd. 04-09-2020	N27°07.502' E93°48.681'	N27°07.452' E93°48.778'	N27°07.474' E93°48.828'	N27°07.521' E93°48.724'	Opencast	As the EC expired, the MPA is Non Operative

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35	Lower Dikrong-Parbatipur Sand & Gravel MPA	Sand & Gravel	Sanwarmal Khetawat	Vill & P.O Haibargaon, Nagaon, 9101170345	--	1.65	25-11-2019	24-11-2021	--	--	13-05-2019	Non Working	Non Captive	Letter No. SEIAA.891/2019/EC/27/62 1, dtd. 25-11-2019	N27°05'59.20"	E93°50'36.10"	Opencast	As the EC expired, the MPA is Non Operative
															N27°06'00.70"	E93°50'37.30"		
															N27°05'56.80"	E93°50'47.50"		
															N27°05'55.30"	E93°50'47.40"		
36	Dikrong Sand & Gravel MPA	Sand & Gravel	Raju Sahu	Vill Harmutti, P.O Merbil, Lakhimpur, 9854017133	--	2	19-10-2019	18-10-2021	--	--	20-12-2019	Non Working	Non Captive	Letter No. SEIAA.937/2019/EC/26/61 2 dtd. 19-10-2019	N27°4'57.699"	E94°54'17.554"	Opencast	Due to expired of validity, the MPA is Non Operative
															N27°4'57.834"	E94°54'17.906"		
															N27°4'52.689"	E94°54'26.240"		
															N27°4'49.617"	E94°54'23.181"		
															N27°05.338'	E93°51.794'		
															N27°05.227'	E93°51.902'		
															N27°05.216'	E93°51.868'		
37	5 No Pithaguri Sand & Gravel MPA	Sand & Gravel	Diganta Neog	Rangajan No.2, P.O Letekupukhuri, Lakhimpur, 9365516353	--	2	20-02-2023	19-02-2025	--	--	10-04-2023	Working	Non Captive	Letter No. SEIAA.3196/2022/EC/198 8-A dtd. 16/02/2023	N27.087067°	E93.873756°	Opencast	Non Operative
															N27.087876°	E93.873675°		
															N27.088086°	E93.875831°		
															N27.087190°	E93.875841°		
38	Dikrong River Bagannalla MPA	Sand & Gravel	S.P Singla Constructi on Pvt. Ltd.	Vill: Bhalukmora, P.O Goalgaon, Balichapori, Dist: Majuli, 7896004531	--	1.82	01-02-2024	31-01-2025	--	--	29-03-2024	Working	Non Captive	Letter No. SEIAA.3549/2023/58-A dtd. 01/02/2024	N27.115943	E93.824605	Opencast	Non Operative
															N27.115590	E93.824089		
															N27.113889	E93.825035		
															N27.114247	E93.825995		
39	2.0 Ha. Kathalguri Sand & Gravel Mining Permit Area	Sand & Gravel	Lakhyajit Bhuyan	Vill I No Karunabari, P.O. Laluk, Lakhimpur	--	2.71	--	--	--	--	--	Non working	Non Captive	--	N27.068385	E93.918070	Opencast	Due to non received of EC, the MPA is non working
															N27.067979	E93.917334		
															N27.065840	E93.918420		
															N27.066156	E93.919034		
40	Lower Dikrong Mencha Sand, Gravel & Boulder MPA	Sand, Gravel & Boulder	Brajanath Malla	4 No. Pithaguri, P.O Pithaguri Chariali, Lakhimpur, 9127884981	--	1.47	30-06-2022	29-06-2024	--	--	25-11-2022	Non Working	Non Captive	Letter No. SEIAA.3000/2022/EC/174 1-A, Dtd 28-06-2022	N27°04'56.64"	E93°54'21.27"	Opencast	As the EC expired, the MPA is Non Operative
															N27°04'54.43"	E93°54'19.48"		
															N27°04'52.30"	E93°54'26.59"		
															N27°04'47.71"	E93°54'23.55"		


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41	Dikrong River Merbil Sand, Gravel & Earth MPA	Sand, Gravel & Ordinary Clay	Jiten Kalita	Gobinpur, P.O & PS Laluk, Lakhimpur, 8723935135	--	2.71	25-01-2017	24-01-2019	--	--	14-02-2017	Non Working	Non Captive	Letter No. LDC.107/DFO(T)/2010/79, dtd 25-01-2017	N27°6'7.56"	E93°51'19.55"	Opencast	As the EC expired, the MPA is Non Operative
															N27°6'11.80"	E93°51'13.70"		
															N27°6'14.13"	E93°51'26.26"		
															N27°6'13.60"	E93°51'26.66"		
															N27°06'1.57"	E93°50'44.43"		
															N27°05'54.58"	E93°50'52.27"		
															N27°05'52.77"	E93°50'50.66"		
															N27°7'26.82"	E93°48'52.08"		
															N27°7'25.56"	E93°49'3.24"		
N27°7'26.52"	E93°49'1.38"																	
42	2.33 Ha. Pithaguri Sand & Gravel MPA (Proposed Area)	Sand & Gravel	Nabajyoti Bhuyan,	1.No Karunabari, Laluk Lakhimpur, 8638984563	-	2.33							No	N27.087170	E93.871460	Proposed MPA and required NOC and Mining Plan not submitted.		
														N27.088350	E93.871260			
														N27.088210	E93.869680			
														N27.086750	E93.869930			
43	2.24Ha. 2 No. Dikrong Chapori Sand & Gravel MPA (Proposed Area)	Sand & Gravel	Khagen Hazarika	Ward No. 4, Bilpuria, P.O Bilpuria, Lakhimpur, 8638668775		2.24							Non Captive	N27°05'18.8"	E93°51'51.0"	Proposed MPA		
														N27°05'22.0"	E93°51'52.0"			
														N27°05'15.2"	E93°51'56.7"			
														N27°05'20.6"	E93°51'58.9"			
44	Kakoi MPA	Ordinary Clay	M/s Gautam Const. Co. Ltd.	4th Floor, Amaze Tower, P.O. Paltan Bazar, GHY, 9954818608	--	2.5	10-01-2020	09-01-2020			21-01-2020	Non working	Non Captive	Letter No. SELAA.939/2019/EC/10/64 0 dtd 10-01-2020	N27°6'32.280"	E93°50'2.760"	Opencast	As the EC expired, the MPA is Non Operative
															N27°6'31.020"	E93°50'1.680"		
															N27°6'24.240"	E93°50'9.600"		
															N27°6'24.240"	E93°50'10.740"		
45	Kananadi Sand & Gravel MPA	Sand & Gravel	Aditya Sarmah Baruah	Vill Telia Gaon, P.O Japisajiya, Lakhimpur, 7002353339	--	0.64	02-07-2018	01-07-2020	--	--	24-07-2018	Non working	Non Captive	Letter No. LDC.30/ECC/2018/187, dtd 02-07-2018	N27°11'46.920"	E94°26'16.680"	Opencast	As the EC expired, the MPA is Non Operative
															N27°11'47.160"	E94°26'16.560"		
															N27°11'48.600"	E94°26'25.080"		
															N27°11'48.120"	E94°26'25.260"		
46	Kananadi Sand & Gravel MPA	Sand & Gravel	Deepak Chetry	Vill Uttar Rupahi, P.O Pathalipam, Lakhimpur, 7896868223	--	0.53						Non working	Non Captive	No	N27°25'59.69"	E94°12'37.76"	Opencast	The MPA is Non Working due to non received of EC
															N27°25'59.40"	E94°12'37.42"		
															N27°25'48.36"	E94°12'45.03"		
															N27°25'49.16"	E94°12'44.00"		

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47	Tramjuli Sand & Gravel MPA	Sand & Gravel	Aditya Sarmah Baruah	Vill Telia Gaon, P.O Japisajiya, Lakhimpur, 7002353339	0.98	25-11-2019	24-11-2021			03-02-2020	Non working	Non Captive	Letter No. SEIAA.897/2019/EC/16/62 dtd 25-11-2019	N27°3'14.841"	E93°46'19.681"	Opencast	As the EC expired, the MPA is Non Operative
														N27°3'14.567"	E93°46'18.705"		
														N27°3'1.124"	E93°46'24.157"		
														N27°3'1.370"	E93°46'24.921"		
48	Bogoli Sand & Gravel MPA	Sand & Gravel	Pranjal Saikia	Vill Bilotia, P.O Nowboicha, Lakhimpur, 9101139916	1.3	09-08-2019	08-08-2020	--	--	26-08-2019	Non working	Non Captive	Letter No. SEIAA.920/2019/EC-7 dtd 09-08-2019	N27°07'59.2"	E93°51'43.2"	Opencast	As the EC expired, the MPA is Non Operative
														N27°07'59.1"	E93°51'44.8"		
														N27°07'50.7"	E93°51'49.3"		
														N27°07'56.3"	E93°51'44.1"		
49	Dolohat Singra MPA	Ordinary Clay	Biswa Jyoti Bori	Vill Deobil Gaon, P.O Pohumora, Lakhimpur, 9854301845	3.8	02-07-2018	01-07-2020	--	--	21-07-2018	Non Working	Non Captive	LDC.30/ECC/2018/187, dtd 02-07-2018	N27°10.816'	E93°59.089'	Opencast	As the EC expired, the MPA is Non Operative
														N27°10.787'	E93°59.128'		
														N27°10.739'	E93°59.028'		
														N27°10.706'	E93°59.069'		
50	Dulpang (Lower) Sand & Gravel MPA	Sand & Gravel	Rama Sankar Sahu	I No. Pithaguri, P.O. Pithaguri, Lakhimpur 9957293775	1.91	01-02-2024	31-01-2025	--	--	17-02-2024	Working	Non Captive	Letter No. SEIAA.3619/2023/66-A dtd 01-02-2024	N27.036856	E93.781193	Opencast	Non Operative
														N27.036645	E93.780405		
														N27.034392	E93.781502		
														N27.034559	E93.782083		
51	3.0 Ha Dirgha MPA (Proposed Area)	Ordinary Clay	Paban Kr. Doley	Lakhimpur	3							Non Captive		N27.36777°	E94.120833°	Opencast	NOC is not granted by the District Commissioner
														N27.368519°	E94.121097°		
														N27.369350°	E94.119029°		
														N27.370243°	E94.119004°		
52	Baghiniyan Mining Permit Area (Outside R.F.)	Sand & Gravel	Mahendra Gurung	Vill: Chauldhuagh at, P.O Pathaliparn, Dist Lakhimpur, 7896868223	0.8	26-04-2018	25-04-2020	--	--	14-05-2018	Non Working	Non Captive	Letter No. LDC.48/Forest NOC/2018/108, dtd 26-04-2018	N27°25'41.280"	E94°12'6.840"	Opencast	As the EC expired, the MPA is Non Operative
														N27°25'42.318"	E94°12'7.214"		
														N27°25'19.426"	E94°12'23.499"		
														N27°25'19.361"	E94°12'23.695"		
53	Dhckianala Sand, Gravel & Earth MPA	Sand, Gravel & Ordinary Clay	Ganesh Neog	Juripar, Khanapara, Ghy, Kamrup(M), 9435116542	2.2	22-10-2019	21-10-2021			23-10-2019	Non Working	Non Captive	Letter No. SEIAA.890/2019/EC/17/66 dtd 22-10-2019	N27°18.233'	E94°00.925'	Opencast	As the EC expired, the MPA is Non Operative
														N27°18.197'	E94°00.876'		
														N27°18.114'	E94°00.954'		
														N27°18.153'	E94°01.001'		
54	Ghagar Sand & Gravel MPA	Sand & Gravel	Mahendra Gurung	Vill: Chauldhuagh at, P.O Pathaliparn, Dist Lakhimpur, 7896868223	0.48	30-08-2018	29-08-2020			01-09-2018	Non Working	Non Captive	Letter No. LDC.30/ECC/2018/2, dtd 30-08-2018	N27°27'51.72"	E94°13'32.52"	Opencast	As the EC expired, the MPA is Non Operative
														N27°27'48.81"	E94°13'31.82"		
														N27°27'50.01"	E94°13'38.51"		

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																		N27°27'40.40"	E94°13'31.44"		
																		N27°27'20.06"	E94°16'6.41"		
																		N27°27'16.89"	E94°16'9.27"		
																		N27°27'14.81"	E94°16'6.17"		
55	Borrow Area-R (Proposed Area)	Ordinary Clay/ Silt				4.95												26° 58' 21.641 " N	26° 58' 21.641 " N	Opencast	Proposed
																		26° 58' 25.831 " N	26° 58' 25.831 " N		
																		26° 58' 32.391 " N	26° 58' 32.391 " N		
																		26° 58' 26.351 " N	26° 58' 26.351 " N		
56	Subansiri River MPA (Proposed Area)	Ordinary Clay/ Silt				4.02												27° 0' 12.527 " N	94° 2' 5.540" E	Opencast	Proposed
																		27° 0' 18.420 " N	94° 2' 9.565" E		
																		27° 0' 21.617 " N	94° 2' 3.938" E		
																		27° 0' 16.612 " N	94° 1' 59.449 " E		
57	Borrow Area "Q" At Subansiri River Bed (Proposed Area)	Ordinary Clay/ Silt				3.56												27° 0' 0.410" N	94° 2' 25.130 " E	Opencast	Proposed
																		27° 0' 6.329" N	94° 2' 30.019 " E		
																		27° 0' 9.281" N	94° 2' 24.832 " E		
																		27° 0' 3.409" N	94° 2' 20.630 " E		
58	Dikrong River Clay Mining Permit Area (Proposed Area)	Ordinary Clay/ Silt				4.53												27.0183290 1	93.9241760 8	Opencast	Proposed
																		27.0164639 9	93.9230401 1		
																		27.0174810 1	93.9241680 7		
																		27.0188610 1	93.9245880 4		
																		27.0200360 2	93.9251110 1		
																		27.0196200 3	93.9261409 8		
																		27.0173310	93.9251980		

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59	Borrow Area "D-1" at Dikrong River Bed (Proposed Area)	Sand & Gravel				4.91						Non Captiv e		2	4	Opencast	Proposed
														27°7'21.580 "N	93°48'59.32 0" E		
														27°7'18.340 "N	93°48'55.84 0" E		
														27°7'23.310 "N	93°48'45.26 0" E		
60	Borrow Area "D-2" at Dikrong River Bed (Proposed Area)	Sand & Gravel				4.64						Non Captiv e		27°7'46.782 "N	93°48'1.648 " E	Opencast	Proposed
														27°7'43.282 "N	93°47'59.18 8" E		
														27°7'47.541 "N	93°47'48.58 7" E		
														27°7'52.021 "N	93°47'50.45 7" E		
61	Lower Dikrong Dongibil 65/68 Grant Area (Proposed Area)	Ordinary Clay/ Silt				2.30						Non Captiv e		27° 4' 26.679 "N	93°54'24.19 7" E	Opencast	Proposed
														27° 4' 29.131 "N	93°54'26.07 7" E		
														27° 4' 25.205 "N	93°54'32.48 6" E		
														27° 4' 22.024 "N	93°54'29.16 5" E		
62	Lower Dikrong Bango Gaon Area (Proposed Area)	Ordinary Clay/ Silt				2.40						Non Captiv e		27° 4' 14.162 "N	93°54'38.81 8" E	Opencast	Proposed
														27° 4' 15.501 "N	93°54'41.82 4" E		
														27° 4' 10.706 "N	93°54'45.69 4" E		
														27° 4' 8.478 "N	93°54'43.83 3" E		
63	Dikrong River Sisapathar Hantapur Area (Proposed Area)	Ordinary Clay/ Silt				2.21						Non Captiv e		27° 1' 53.004 "N	93°55'55.23 2" E	Opencast	Proposed
														27° 1' 53.623 "N	93°55'52.06 4" E		
														27° 1' 49.199 "N	93°55'50.19 2" E		
														27° 1' 50.293 "N	93°55'54.85 8" E		
64	Boginadi Ordinary Clay/ Silt MPA (Proposed Area)	Ordinary Clay/ Silt				2.58						Non Captiv e		27°21'18.06 0"N	94°11'54.72 0"E	Opencast	Proposed
														27°21'14.82 0"N	94°11'51.78 0"E		
														27°21'11.10	94°11'57.66		

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														0°N	0°E			
														27°21'14.10 0"N	94°12'0.840 "E			
65	Gabhara River Baligaon Area (Proposed Area)	Ordinary Clay/ Silt				1.20								27°9'21.925 "N	93°53'38.41 7"E	Opencast	Proposed	
													27°9'22.253 "N	93°53'39.79 9"E				
													27°9'20.449 "N	93°53'41.45 9"E				
													27°9'19.329 "N	93°53'39.89 3"E				
66	Gabhara River Deori Gaon Area	Ordinary Clay/ Silt				1.20								27°9'39.203 "N	93°53'29.98 1"E	Opencast	Proposed	
													27°9'38.660 "N	93°53'33.47 0"E				
													27°9'43.043 "N	93°53'30.92 6"E				
													27°9'42.531 "N	93°53'34.54 0"E				

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