

**GEOTECHNICAL INVESTIGATION DRAFT REPORT
FOR PROPOSED AMMONIA-UREA FERTILIZER PLANT**



**PROJECTS & DEVELOPMENT INDIA LIMITED
NOIDA**

M/s ASSAM VALLEY FERTILIZER AND CHEMICAL COMPANY LTD.

Consultant:



G S GeoEnvirons Pvt. Ltd.

CONSULTING ENGINEERS AND
PLANNERS

KEWAL VILLA, SAHASTRADHARA
ROAD, DEHRADUN-248001,
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Geotechnical Investigation for proposed Ammonia-Urea Fertilizer Plant

PROJECT DESCRIPTION

M/s. **PDIL (Projects & Development India Limited)** is planning a project of fertilizer manufacturing at Namrup Assam for which the work of a **Geotechnical Investigation for proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and Chemical Company Ltd.** was awarded to **M/s G S Geo Environs Pvt. Ltd.**

G. S. Geo has carried out geotechnical investigation at the site on the behalf of M/s PDIL. The details of investigations at site were brief by the site engineer of AVFCCL.

The scope of work includes twenty (20) boreholes, SPT (20 numbers), Dynamic Cone Penetration Tests DCPT (10 numbers), Electrical Resistivity Tests ERT's (5 numbers), Plate Load Test (6 numbers), Cyclic Plate Load Tests (6 numbers), Engineering properties of soil and water samples from site (200 numbers).

This report will includes data of, twenty (20) boreholes, SPT (20 numbers), Dynamic Cone Penetration Tests DCPT (10 numbers), Electrical Resistivity Tests ERT's (5 numbers), Plate Load Test (6 numbers), Cyclic Plate Load Tests (6 numbers), Engineering properties of soil and water samples from site (200 numbers) along with our foundation recommendations. Field work is in progress on site. Our final report shall be submitted on completion of the balance field and laboratory testing programmer.

Purpose & Scope

The current study has been carried out at the site in order to:

- a) Determine the general nature of the subsurface strata at the site;
- b) Retrieve the subsurface samples for determination of index and engineering properties.
- c) Assess geotechnical parameters of the subsurface strata at the site for the foundation design and construction of the various facilities planned at the site.

The scope of work includes the following:

- (i) Mobilization of men and equipment at site for carrying out the investigation including shifting at all test locations & demobilization after completion of work.
- (ii) Drilling twenty holes to the specified depth, in order to evaluate the stratigraphy at the site, and to collect soil, rock core and groundwater samples for laboratory testing.
- (iii) Conducting ten (10) dynamic cone penetration tests (DCPT) up to refusal, to obtain additional data for foundation analysis.
- (iv) Conducting five (5) electrical resistivity tests (ERT's) to provide data for the grounding systems.
- (v) Performing six (6) plate load tests and six (6) cyclic plate load tests at the specified locations and at specified depth to assess the load-settlement behavior of soils under loading.
- (vi) Laboratory testing of retrieved samples to determine the index and engineering properties of the sub-surface strata;
- (vii) Geotechnical analysis using the available field and laboratory test data.
- (viii) Preparation of geotechnical recommendations for foundation design and construction.
- (ix) Preparation and submission of this report in triplicate

Engineering properties of soil

Disturbed Soil samples were collected at site through drilling. SPT samples were also collected. Water samples were collected from the bore holes. The collected samples were sent to NABL approved lab GSRL GLOBAL SOIL RESEARCH LABORATORY PVT.LTD. at Dehradun. The results obtained from them are presented as test report in the Annexure -A.

Dynamic Cone Penetration Tests (DCPT)

The dynamic cone penetration tests were conducted using a 65 mm diameter cone in general accordance with IS: 4968 (Part-I)–1976 RA 2007. The cone was attached to ‘A’ rods and driven by means of 63.5 kg hammer falling freely from a height of 75 cm. The number of blows required for each 30 cm penetration of the cone is recorded. In order to limit the friction between the rods and the soil, the rods were rotated after every 1 to 1.5 m of cone penetration.

DCPT at ten locations was carried out. The data observed for 10 sites is given below.

DCPT-01

Dynamic Cone Penetration Test No.: DCPT-01

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-01
Co-ordinate : N-27°10'36" , E-95°21'20"

Depth (mtr)	No. of blows (N)
0.3	33
0.6	32
0.9	69
1.2	91
1.5	138
1.8	156

DCPT-02

Dynamic Cone Penetration Test No.: DCPT-02

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-02
Co-ordinate : N-27°10'30" , E-95°21'23"

Depth (mtr)	No. of blows (N)
0.3	25
0.6	22
0.9	12
1.2	6
1.5	4
1.8	5
2.1	7
2.4	6
2.7	8
3	11
3.3	13
3.6	12
3.9	16
4.2	41
4.5	74
4.8	113
5.1	148
5.4	152

DCPT-03

Dynamic Cone Penetration Test No.: DCPT-03

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-03
Co-ordinate : N-27°10'35" , E-95°21'11"

Depth (mtr)	No. of blows (N)
0 - 0.3	13
0.3 - 0.6	14
0.6 - 0.9	8
0.9 - 0.12	5
1.2 - 1.5	5
1.5 - 1.8	3
1.8 - 2.1	3
2.1 - 2.4	3
2.4 - 2.7	4
2.7 - 3	4
3 - 3.3	5
3.3 - 3.6	7
3.6 - 3.9	7
3.9 - 4.2	8
4.2 - 4.5	17
4.5 - 4.8	35
4.8 - 5.1	43
5.1 - 5.4	63
5.4 - 5.7	88
5.7 - 6	103
6 - 6.3	121
6.3 - 6.6	137
6.6 - 6.9	163 (Refusal)

DCPT-04

Dynamic Cone Penetration Test No.: DCPT-04

IS: 4968 (Part I) - 1976

Test Details
Test Designation : DCPT-04
Co-ordinate : N-27°10'26" , E-95°21'22"

Depth (mtr)	No. of blows (N)
0.3	46
0.6	21
0.9	11
1.2	10
1.5	12
1.8	3
2.1	5
2.4	3
2.7	4
3	9
3.3	15
3.6	26
3.9	48
4.2	73
4.5	91
4.8	137
5.1	151

DCPT-05

Dynamic Cone Penetration Test No.: DCPT-05

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-05
Co-ordinate : N-27°10'42" , E-95°20'58"

Depth (mtr)	No. of blows (N)
0 - 0.3	4
0.3 - 0.6	7
0.6 - 0.9	6
0.9 - 1.2	5
1.2 - 1.5	5
1.5 - 1.8	6
1.8 - 2.1	70
2.1 - 2.4	123
2.4 - 2.7	157
2.7 - 3	Refusal

DCPT-06

Dynamic Cone Penetration Test No.: DCPT-06

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-06
Co-ordinate : N-27°10'36" , E-95°21'04"

Depth (mtr)	No. of blows (N)
0 - 0.3	17
0.3 - 0.6	15
0.6 - 0.9	7
0.9 - 0.12	5
1.2 - 1.5	6
1.5 - 1.8	4
1.8 - 2.1	4
2.1 - 2.4	4
2.4 - 2.7	5
2.7 - 3	5
3 - 3.3	20
3.3 - 3.6	45
3.6 - 3.9	97
3.9 - 4.2	127
4.2 - 4.5	172 (Refusal)

DCPT-07

Dynamic Cone Penetration Test No.: DCPT-07

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-07
Co-ordinate : N-27°10'30" , E-95°21'11"

Depth (mtr)	No. of blows (N)
0 - 0.3	22
0.3 - 0.6	11
0.6 - 0.9	3
0.9 - 0.12	2
1.2 - 1.5	2
1.5 - 1.8	2
1.8 - 2.1	2
2.1 - 2.4	3
2.4 - 2.7	20
2.7 - 3	41
3 - 3.3	67
3.3 - 3.6	82
3.6 - 3.9	107
3.9 - 4.2	148
4.2 - 4.5	Refusal

DCPT-08

Dynamic Cone Penetration Test No.: DCPT-08

IS: 4968 (Part I) - 1976

Test Details
Test Designation : DCPT-08
Co-ordinate : N-27°10'30" , E-95°21'05"

Depth (mtr)	No. of blows (N)
0 - 0.3	25
0.3 - 0.6	18
0.6 - 0.9	5
0.9 - 1.2	5
1.2 - 1.5	4
1.5 - 1.8	5
1.8 - 2.1	6
2.1 - 2.4	21
2.4 - 2.7	72
2.7 - 3	157
3 - 3.3	Refusal

DCPT-09

Dynamic Cone Penetration Test No.: DCPT-09

IS: 4968 (Part I) - 1976

Test Details
Test Designation : DCPT-09
Co-ordinate : N-27°10'25" , E-95°20'59"

Depth (mtr)	No. of blows (N)
0 - 0.3	16
0.3 - 0.6	20
0.6 - 0.9	9
0.9 - 1.2	48
1.2 - 1.5	71
1.5 - 1.8	163

DCPT-10

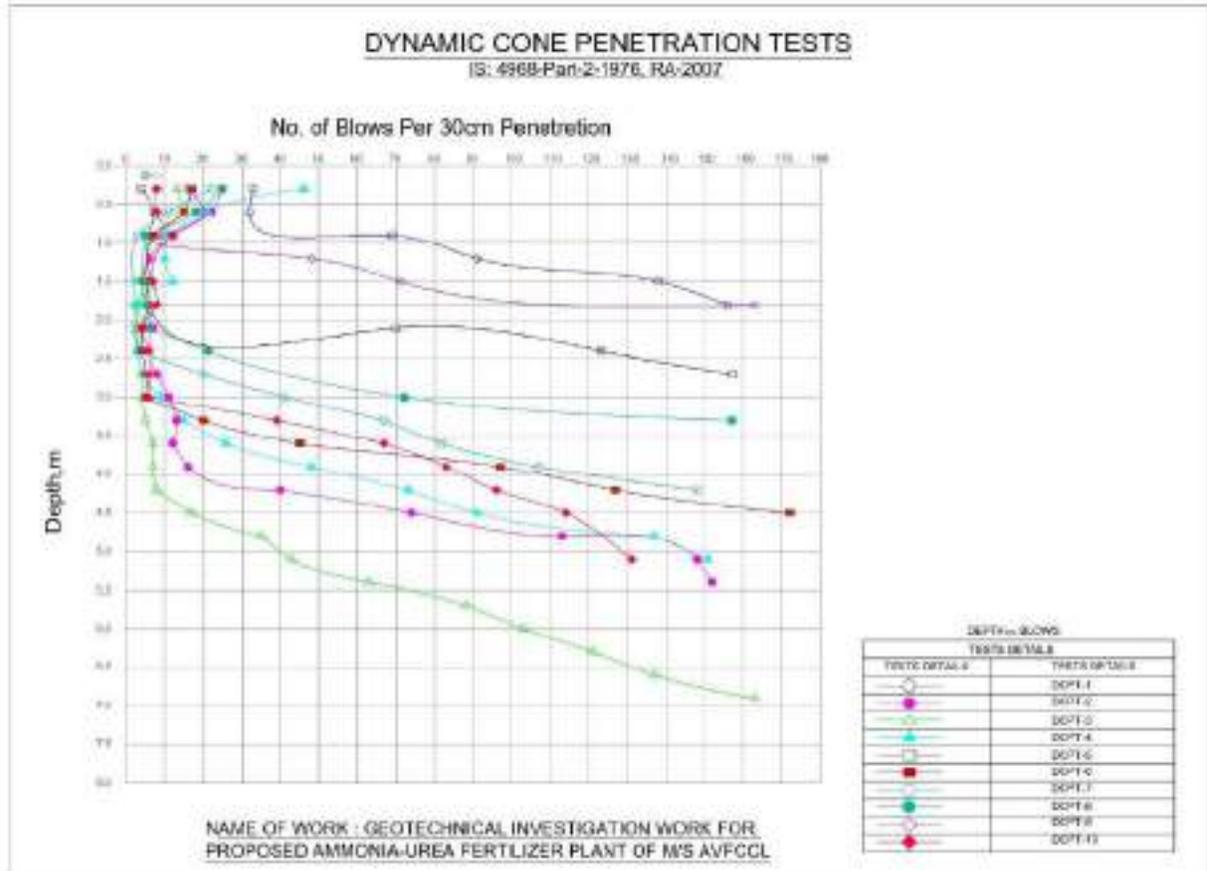
Dynamic Cone Penetration Test No.: DCPT-10

IS: 4968 (Part I) – 1976

Test Details
Test Designation : DCPT-10
Co-ordinate : N-27°10'28" , E-95°20'57"

Depth (mtr)	No. of blows (N)
0 - 0.3	8
0.3 - 0.6	8
0.6 - 0.9	12
0.9 - 0.12	8
1.2 - 1.5	7
1.5 - 1.8	8
1.8 - 2.1	4
2.1 - 2.4	6
2.4 - 2.7	6
2.7 - 3	6
3 - 3.3	39
3.3 – 3.6	67
3.6 – 3.9	83
3.9 – 4.2	96
4.2 – 4.5	114
4.5 – 4.8	131
4.8 – 5.1	158 (Refusal)

The data obtained was plotted against no. of blows per 30cm penetration vs depth in m as per IS: 4968-Part-2-1976, RA-2007. The same is given below:

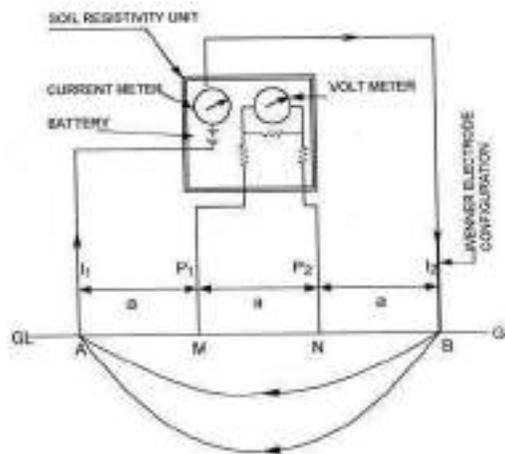


The plot of DCPT data shows an erratic behavior of soil up to a depth of 4.5m after that it reflects a uniform behavior. Up to a depth of 3.5m the soil is much more dense, compact and is a high resistance for penetration

Electrical Resistivity Tests

Electrical resistivity of the substratum (soil) at the site was determined at specified locations. The electrical resistivity test is used for shallow subsurface exploration by means of electrical measures made at the ground surface. Resistivity measurements are made by driving four electrodes about 10 to 10 cm in to the ground at pre-selected electrode spacing. We used the Wenner electrode configuration for this study.

The schematic arrangement of electrodes is shown below:



NOTE: I1 AND I2 ARE CURRENT ELECTRODES

P1 AND P2 ARE POTENTIAL ELECTRODES

a - ELECTRODE SPACING AS 1, 3, 5, & 10 m

The four electrodes were spaced at equal distance along a line. The test procedure is in accordance with IS: 3043:1987 RA 2006.

Measurements are made by causing a current, 'I', to pass through the earth and distribute within a relatively large hemispherical earth mass. The portion of the current that flows along the surface produces a voltage drop, 'V'. The resistance 'R', ratio of voltage drop 'V' to current 'I' is directly measured by Digital Earth Resistance Tester. The resistivity is determined from the following equation:

$$\rho = 2 \pi a R$$

Where:

ρ = apparent resistivity, ohm-m

a = spacing between the electrodes, meter

R = resistance, ohms

Results are presented as semi-logarithmic plot of apparent resistivity versus electrode spacing, as well as in the form of polar curves, as specified by IS: 3043:1987 RA 2006.

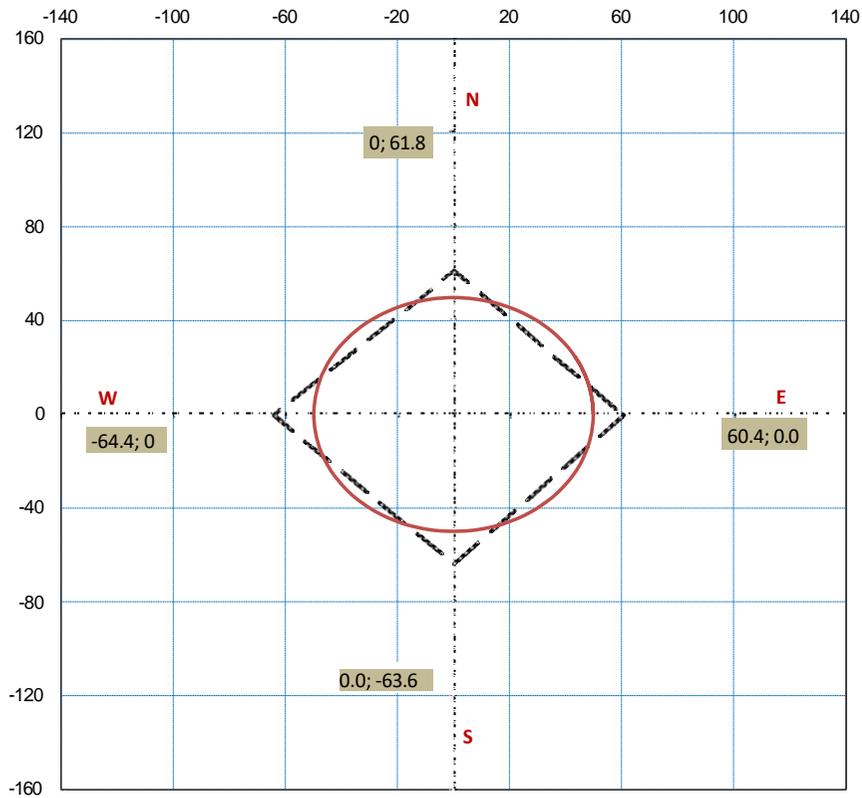
ELECTRICAL RESISTIVITY TEST RESULTS

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-1

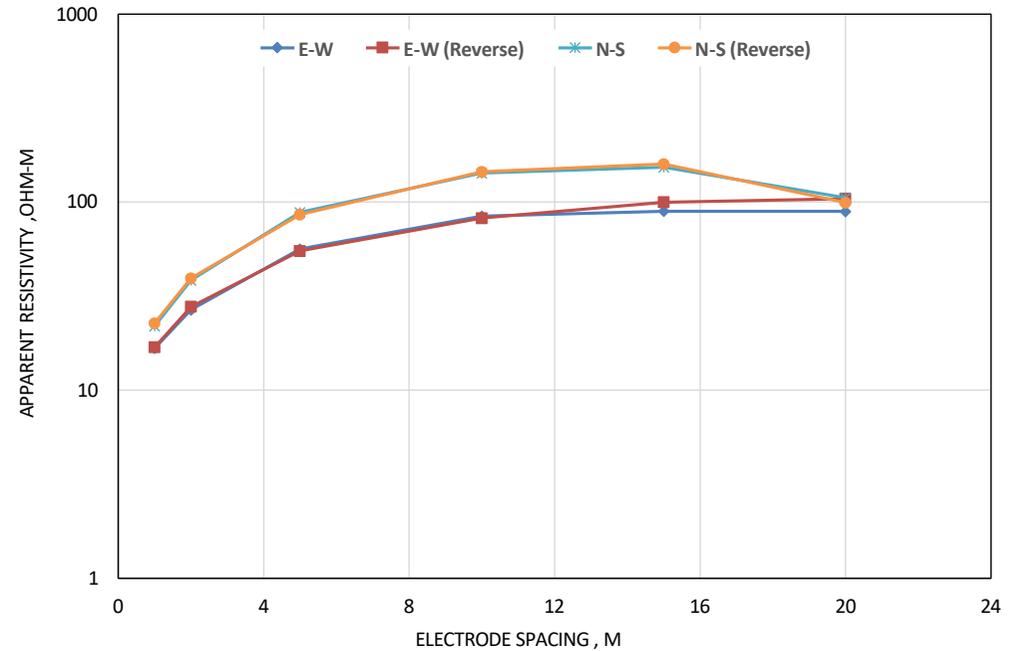
Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
1.0	16.7	16.9	21.9	22.7
2.0	26.8	27.8	38.5	39.3
5.0	56.2	55.0	88.3	85.8
10.0	84.2	82.3	142.6	145.1
15.0	89.5	99.9	153.6	159.3
20.0	89.2	104.3	105.6	99.3
Mean Resistivity	60.4	64.4	63.6	61.8

POLAR RESISTIVITY CURVE



Total Area of Polygon : 7820
 Radius of Equivalent Circle = Mean Resistivity : 49.9 ohm-m

MEAN RESISTIVITY VALUE = 49.9 ohm-m



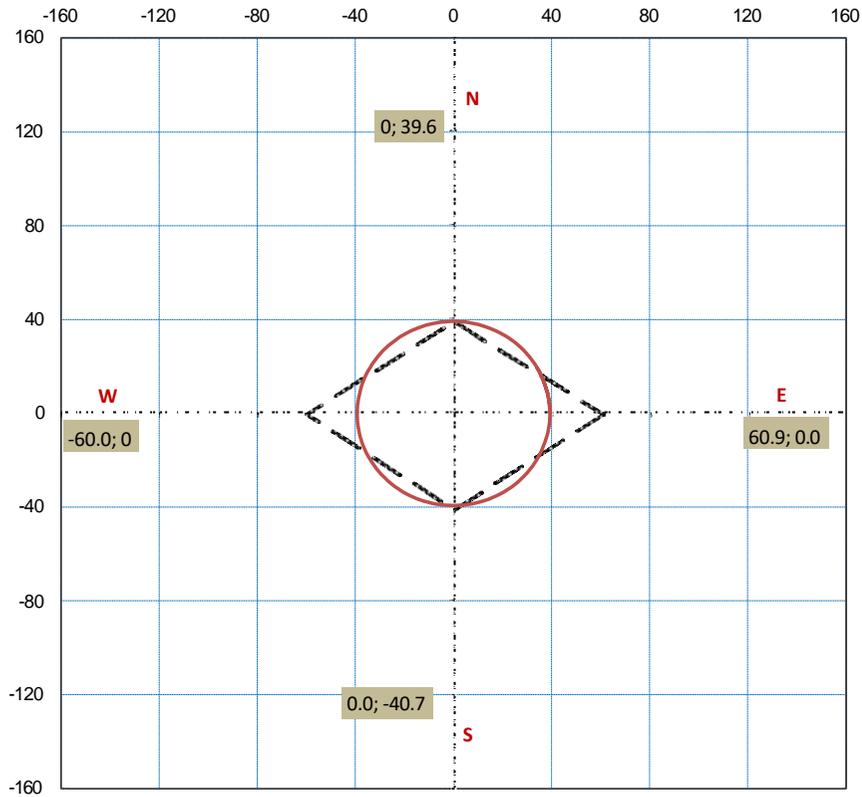
ELECTRICAL RESISTIVITY TEST RESULTS

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-2

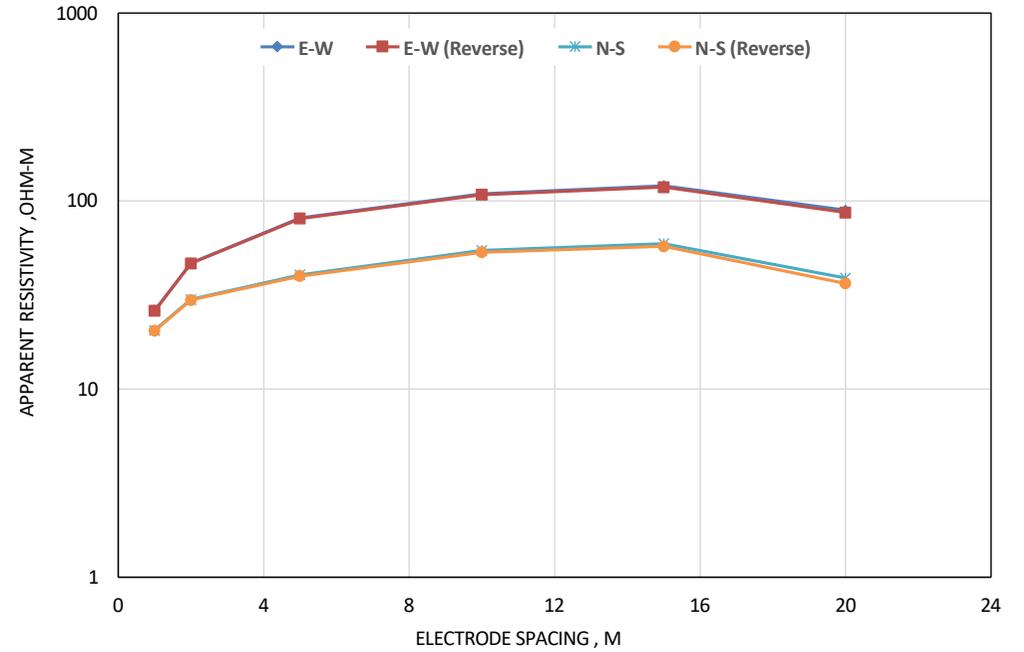
Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
1.0	26.2	26.1	20.5	20.4
2.0	46.9	46.6	30.0	29.8
5.0	81.4	80.7	40.5	39.9
10.0	109.3	108.1	54.7	53.4
15.0	120.6	118.8	59.4	57.5
20.0	89.2	86.7	39.0	36.4
Mean Resistivity	60.9	60.0	40.7	39.6

POLAR RESISTIVITY CURVE



Total Area of Polygon : **4854**
 Radius of Equivalent Circle = Mean Resistivity : **39.3 ohm-m**

MEAN RESISTIVITY VALUE = **39.3 ohm-m**



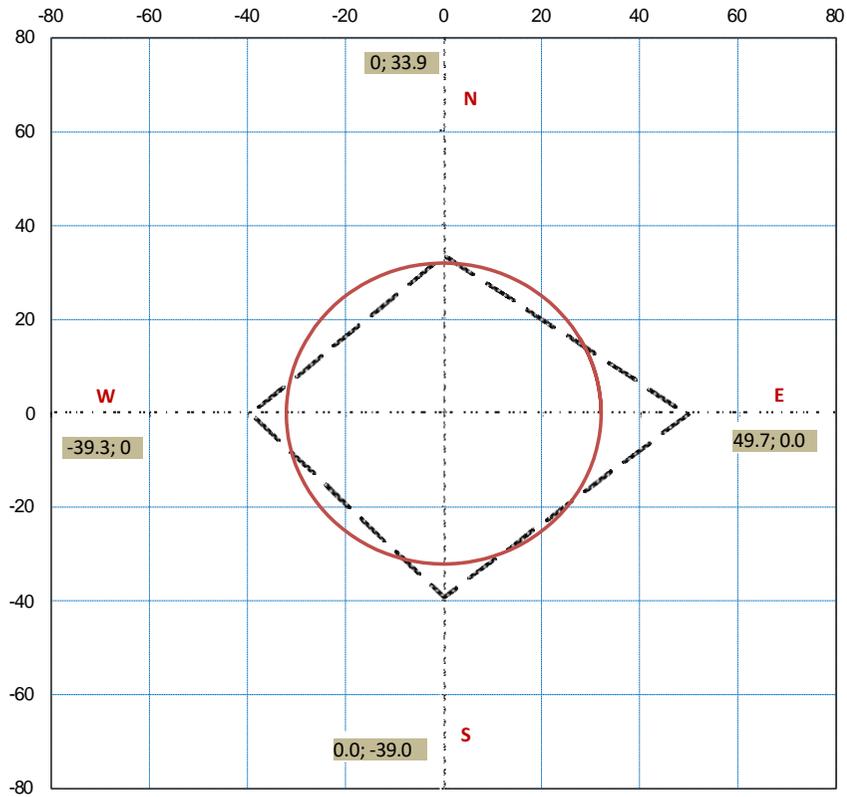
ELECTRICAL RESISTIVITY TEST RESULTS

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-3

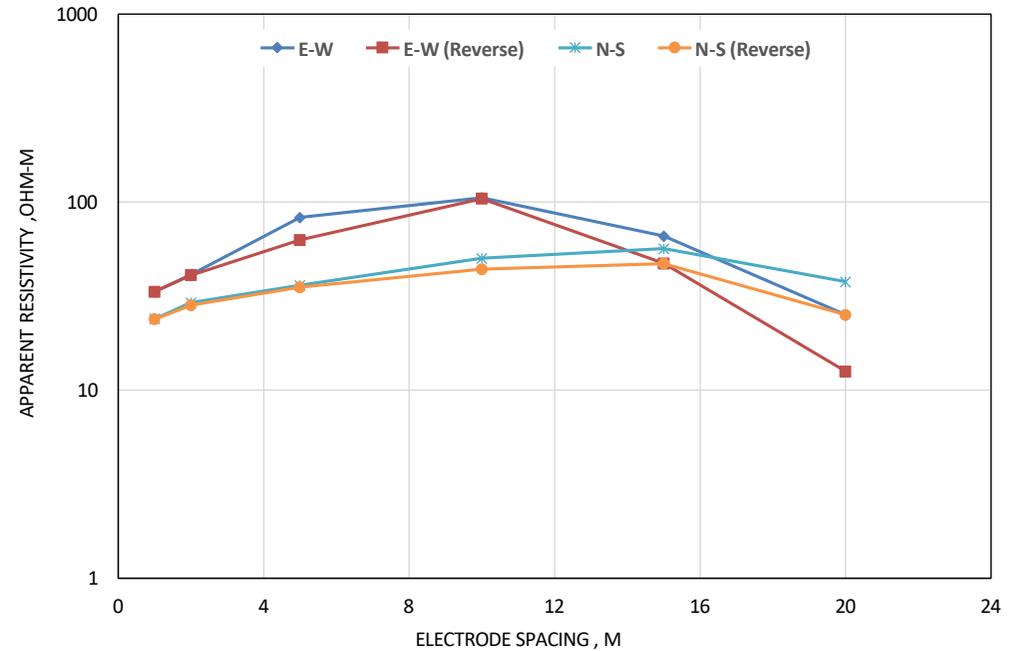
Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
1.0	33.4	33.3	23.9	23.8
2.0	41.1	40.8	29.2	28.3
5.0	82.9	62.8	36.1	35.2
10.0	105.6	104.3	50.3	44.0
15.0	66.0	47.1	56.5	47.1
20.0	25.1	12.6	37.7	25.1
Mean Resistivity	49.7	39.3	39.0	33.9

POLAR RESISTIVITY CURVE



Total Area of Polygon : 3244
 Radius of Equivalent Circle = Mean Resistivity : 32.1 ohm-m

MEAN RESISTIVITY VALUE = 32.1 ohm-m



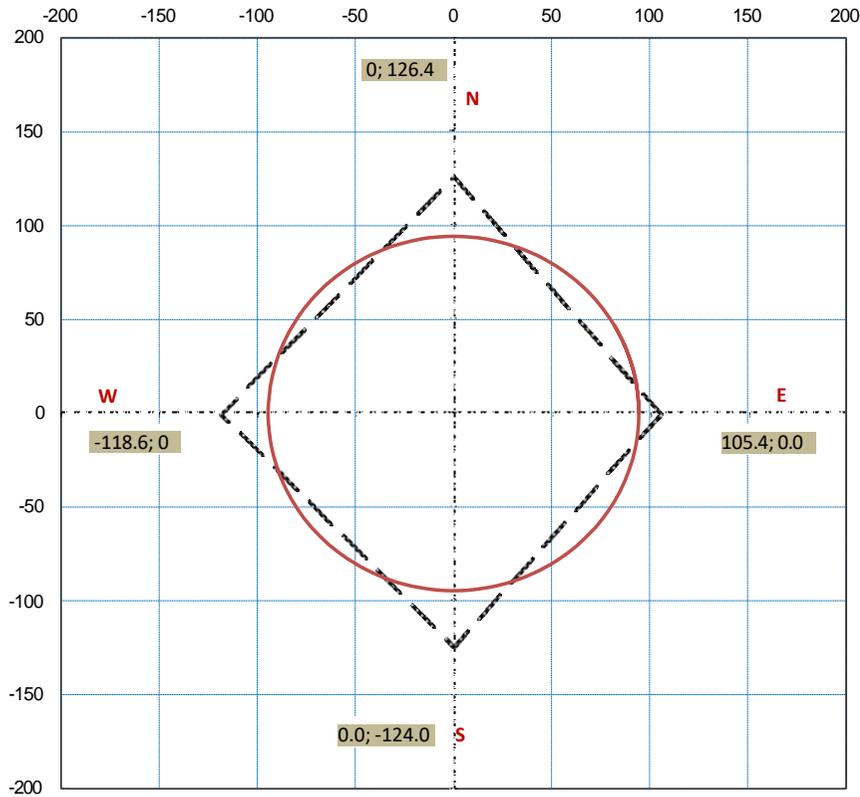
ELECTRICAL RESISTIVITY TEST RESULTS

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-4

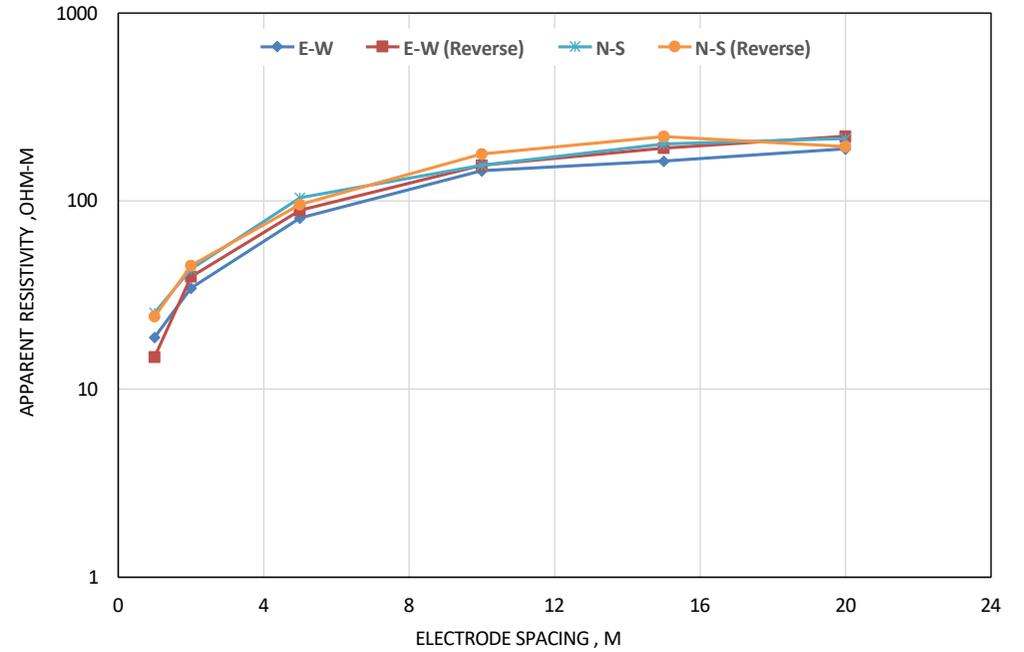
Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
1.0	18.8	14.8	25.4	24.3
2.0	34.4	39.6	43.5	45.4
5.0	81.4	89.2	104.0	95.8
10.0	145.1	155.2	155.2	177.8
15.0	163.0	191.3	200.7	220.5
20.0	189.8	221.2	214.9	194.8
Mean Resistivity	105.4	118.6	124.0	126.4

POLAR RESISTIVITY CURVE



Total Area of Polygon : 28042
 Radius of Equivalent Circle = Mean Resistivity : 94.5 ohm-m

MEAN RESISTIVITY VALUE = 94.5 ohm-m



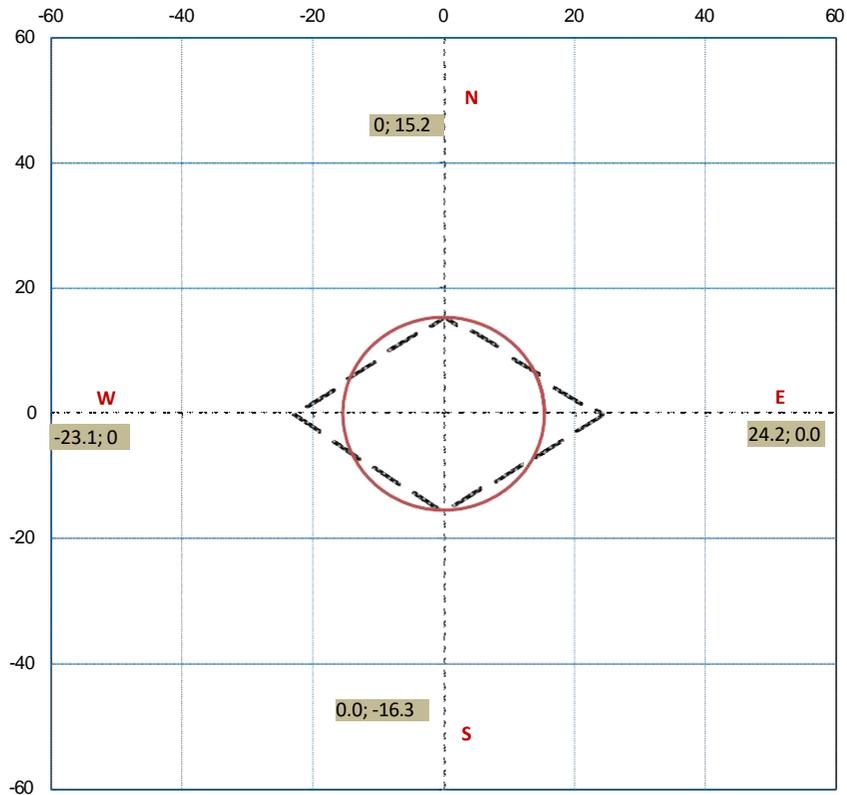
ELECTRICAL RESISTIVITY TEST RESULTS

IS: 3043-1987, RA-2006

Test Details
Test Designation : ERT-5

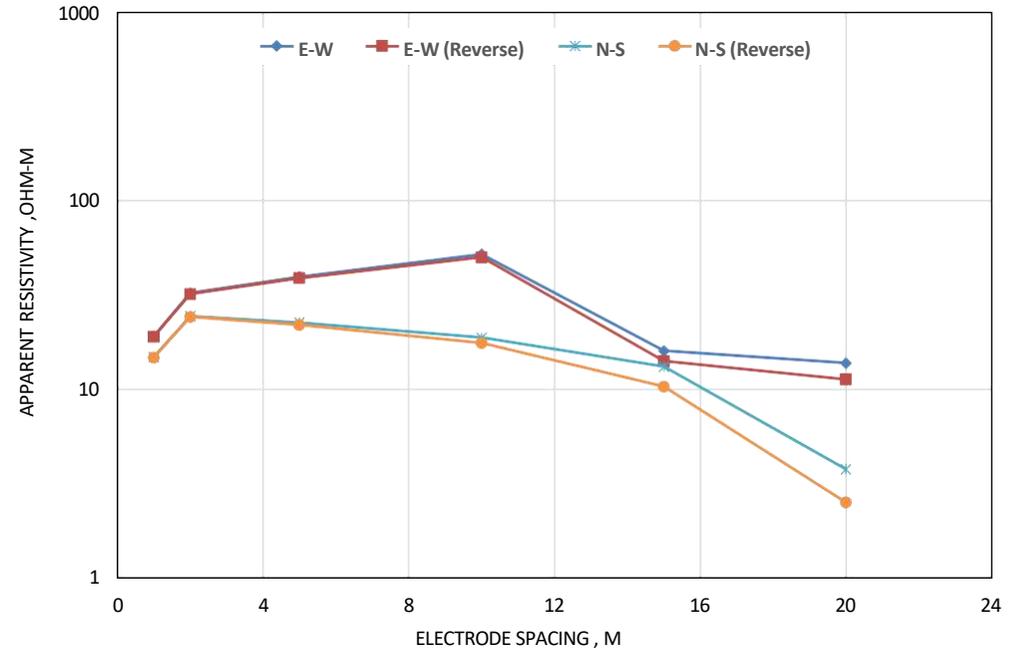
Electrode Spacing, m	Apparent Resistivity, Ohm-m			
	E-W	E-W (Reverse)	N-S	N-S (Reverse)
1.0	19.2	19.0	14.9	14.8
2.0	32.4	32.0	24.5	24.3
5.0	39.6	39.0	22.6	22.0
10.0	52.2	50.3	18.8	17.6
15.0	16.0	14.1	13.2	10.4
20.0	13.8	11.3	3.8	2.5
Mean Resistivity	24.2	23.1	16.3	15.2

POLAR RESISTIVITY CURVE



Total Area of Polygon : **746**
 Radius of Equivalent Circle = Mean Resistivity : **15.4 ohm-m**

MEAN RESISTIVITY VALUE = **15.4 ohm-m**



Standard Penetration Tests (SPT)

Standard Penetration Tests (SPT) were conducted in the boreholes at 1.5 m depth intervals in the soil by connecting a split spoon sampler to 'A' rod and driving it by 45 cm using a 63.5 kg hammer falling freely from a height of 75 cm. The tests were conducted in accordance with IS: 2131- 1981 RA 2002

The SPT 'N'-values are described as follows:-

1. The number of blows for each 15 cm of penetration of the split spoon sampler is recorded.
2. The blows required to penetrate the initial 15 cm of the split spoon for seating the sampler is ignored due to the possible presence of loose materials or cuttings from the drilling operation.
3. The cumulative number of blows required to penetrate the balance 30 cm of the 45 cm split spoon sampler is termed the SPT value or the 'N' corrected value.
4. Where the number of blows required to penetrate the balance 30 cm of the split spoon sampler exceeds 100, the number of blows is presented along with the corresponding penetration. For example, an SPT value reported as "101 / 15 cm" means that 101 blows were imparted to penetrate the split spoon sampler by 5 cm after the first 15 cm initial (seating) penetration.
5. Where refusal ($N > 100$) to further penetration of the split spoon sampler is encountered in the first 15 cm of seating penetration itself, SPT test could not be completed and "Ref" is indicated in the bore logs, along with the penetration achieved.

Disturbed samples were collected from the split spoon sampler after conducting SPT. The samples were preserved in transparent polythene bags, and transported to our NABL accredited laboratory in Dehradun for laboratory testing.

SPT curve N value and corrected N value Vs depth were plotted and are given below.

Soil Boring

The soil boring of 150 mm diameter were progressed using through mechanical drilling machine. Drilling in soil formation was performed using Geo boring machine. Where caving of the borehole occurred, casing was used to keep the borehole stable. The work was performed in general accordance with IS: 1892-1979 RA-2007.

Twenty bore holes have been drilled up to a depth of 15 meter. The table of data and logs are being given below.

BH-01

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'38", E-95°21'27"
 Test ID - BH-01

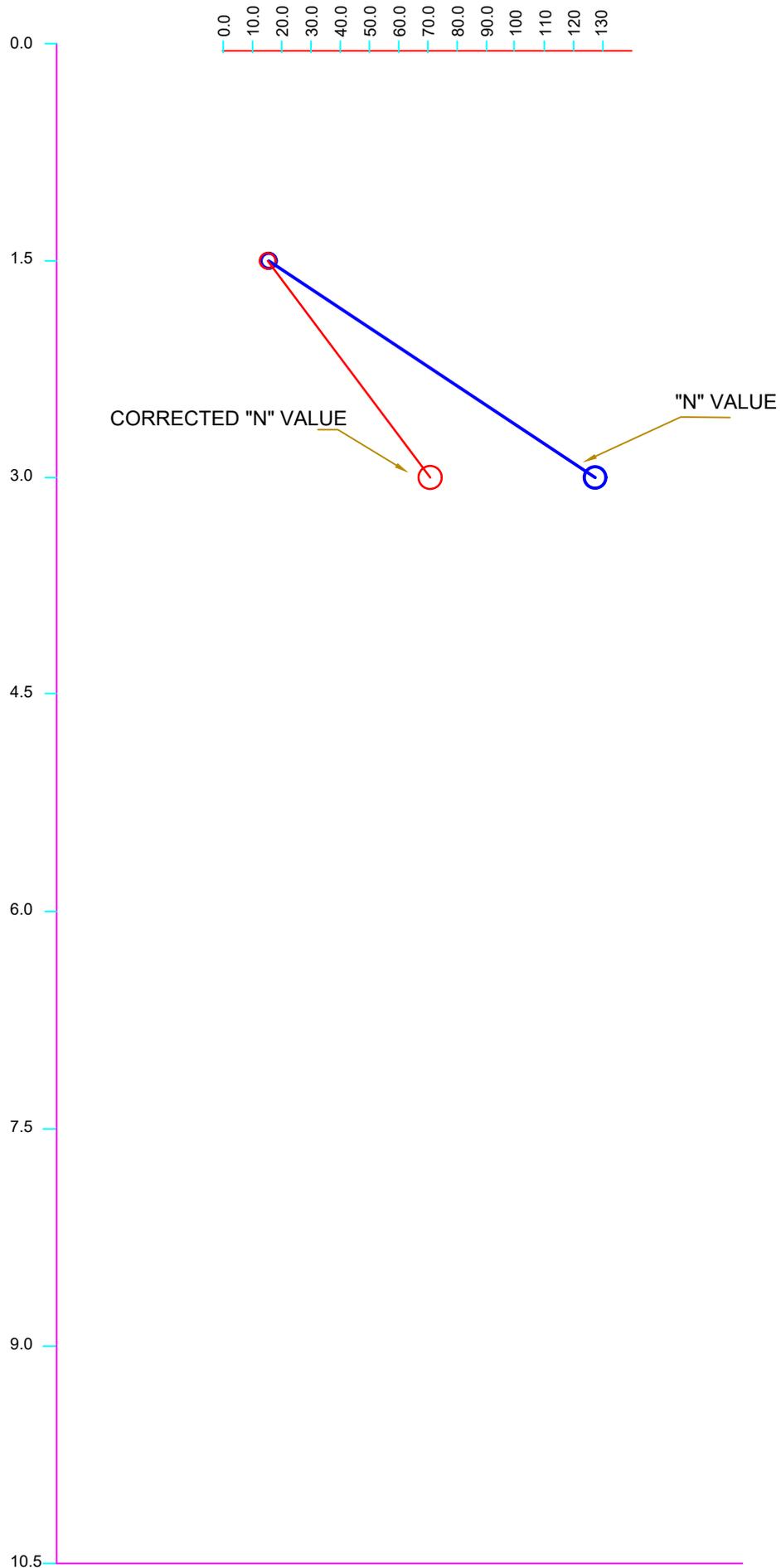
Table 1: BH -01 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
01.02.26	1	0	0.5							DS-1	Brown sandy soil
	2	1.5	1.95	3	6	10	16	15.5	75	SPT-1	Brown sandy clay
		3	3.45	38	56	71	127	71	75	SPT-2	Brown sandy clay with gravel

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To									
01.02.26	3.45	4.5	1.05	50	NX	IMP	S/T	Muddy	Sand, brown clay with coarse gravel to boulder	Partial	17
	4.5	6	1.5	52	NX	IMP	S/T	Muddy	Sand, brown clay with coarse gravel to boulder	Partial	15
	6	7.5	1.5	68	NX	IMP	S/T	Greyish	Sand, brown clay with coarse gravel to boulder	Partial	23
	7.5	9	1.5	60	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Partial	19
02.02.26	9	10.5	1.5	62	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	26
	10.5	12	1.5	55	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	32
	12	13.5	1.5	55	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	21
	13.5	15	1.5	60	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	25

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
2,4,3,2		1	16.19	10.47		3.6	
3,3,5		2	10	7.33			
7,4,6,3		3	15.33	13.33			
3,2,5,2		4	12.67	8			
12,3,5,	12	5	17.33	13.33	8		
14,6,7	14	6	21.33	18	9.33		
2,3,5,3,4		7	14	11.33			
6,2,4,3,5		8	16.67	13.33			

NO OF BLOWS, N VALUE



GEOLOGICAL LOG OF DRILL HOLE BH-01

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21' 27" , N 27° 10' 38"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 1/02/2026 - 02/02/2026

GROUND EL. : 144.01 M
 COLLAR EL. : 144.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING RING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS		TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			OTHER NX HX AX			
0.5		BROWN SANDY SOIL																
1.5		BROWN SANDY CLAY			15%													
3.0		BROWN SANDY CLAY										3,6,10 N=16						N=15.5
3.45		BROWN SANDY SOIL WITH GRAVELS										38,56,71 N=127						N=71
4.5		FRACTURED ROCK			20%													REFUSAL AT 3.45 M
6.0		FRACTURED ROCK																
7.5		FRACTURED ROCK			20%													
9.0		FRACTURED ROCK			40%													
10.5		FRACTURED ROCK			40%													
12.0		FRACTURED ROCK																
13.5		FRACTURED ROCK			20%													
15.0		FRACTURED ROCK																

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-02

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'31", E-95°21'27"
 Test ID - BH-02

Table 1: BH -02 SPT Chart

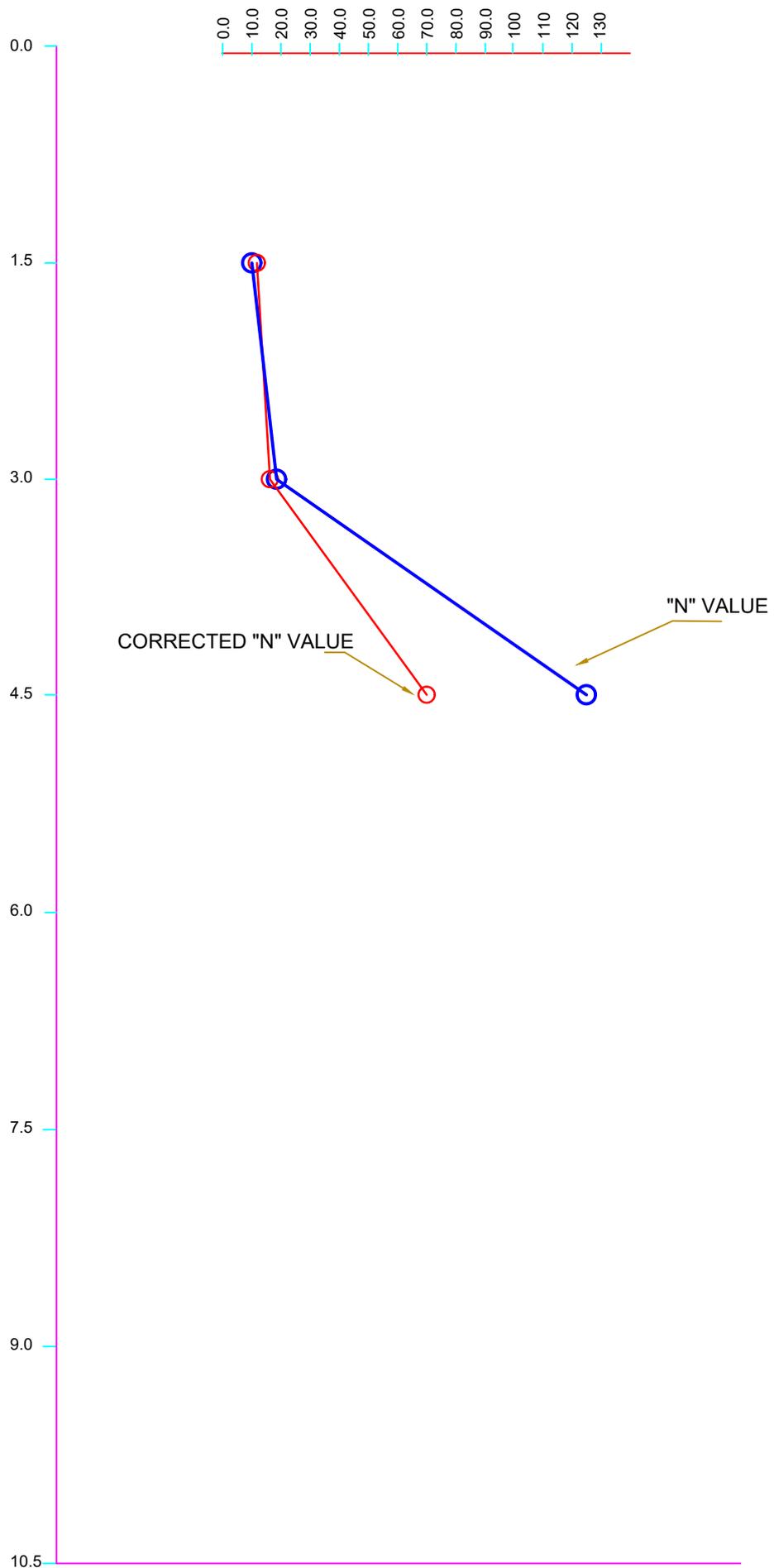
Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
02.02.26	1	0	0.5							DS-1	Brown sandy soil
	2	1.5	1.95	3	5	5	10	12.5	75	SPT-1	Brown sandy clay
		3	3.45	6	7	11	18	16.5	75	SPT-2	Brown sandy clay
		4.5	4.95	38	54	71	125	70	75	SPT-3	Brown sandy clay with coarse gravel

Water level at 3.8m.

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To									
02.02.26	4.95	6	1.05	48	NX	IMP	S/T	Muddy	Sand, brown clay with coarse gravel to boulder	Partial	13
	6	7.5	1.5	55	NX	IMP	S/T	Greyish	Sand, brown clay with coarse gravel to boulder	Partial	17
	7.5	9	1.5	62	NX	IMP	S/T	Greyish	Sand, brown clay with coarse gravel to boulder	Full	14
	9	10.5	1.5	58	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	21
03.02.26	10.5	12	1.5	56	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	11
	12	13.5	1.5	65	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	13
	13.5	15	1.5	54	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	15

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
3,2,2,4		1	12.38	10.47			
4,2,2,3		2	11.33	7.33			
2,2,3,3		3	9.33	6.67			
7,4,2,5		4	14	12			
2,3,4		5	7.33	6			
3,3,5		6	8.67	7.33			
4,2,2,3		7	10	7.33			

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-02

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21' 27" , N 27° 10' 31"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 02/02/2026 - 03/02/2026

GROUND EL. : 145.27 M
 COLLAR EL. : 145.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 ELEVATION (M)	3 LITHOLOGY		4 WEATHERING RING (W)	5 CORE RECOVERY %	6 ROD	7 STRUCTURAL CONDITION			8 WATER LEVEL	9 WATER LOSS	10 TEST SECTION SPT	11 HOLE SIZE	12 CASING			14 SPECIAL OBSERVATION	
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)					IN	PART	FILL		OTHER
0.5		FILLING MATERIAL																
1.5		BROWN SANDY SOIL			15%													
3.0		BROWN SANDY SOIL									3.5,5 N=10		75					N=15.5
4.5		BROWN SANDY SOIL WITH COARSE GRAVELS			20%				WL		6.7,11 N=18		75					N=16.5
4.95		FRACTURED ROCK									38.54,71 N=125		75					N=70
6.0		FRACTURED ROCK																REFUSAL AT 4.95 M
7.5		FRACTURED ROCK			20%													
9.0		FRACTURED ROCK			40%													
10.5		FRACTURED ROCK			40%													
12.0		FRACTURED ROCK																
13.5		FRACTURED ROCK			20%													
15.0		FRACTURED ROCK																

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-03

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'36", E-95°21'22"
 Test ID - BH-03

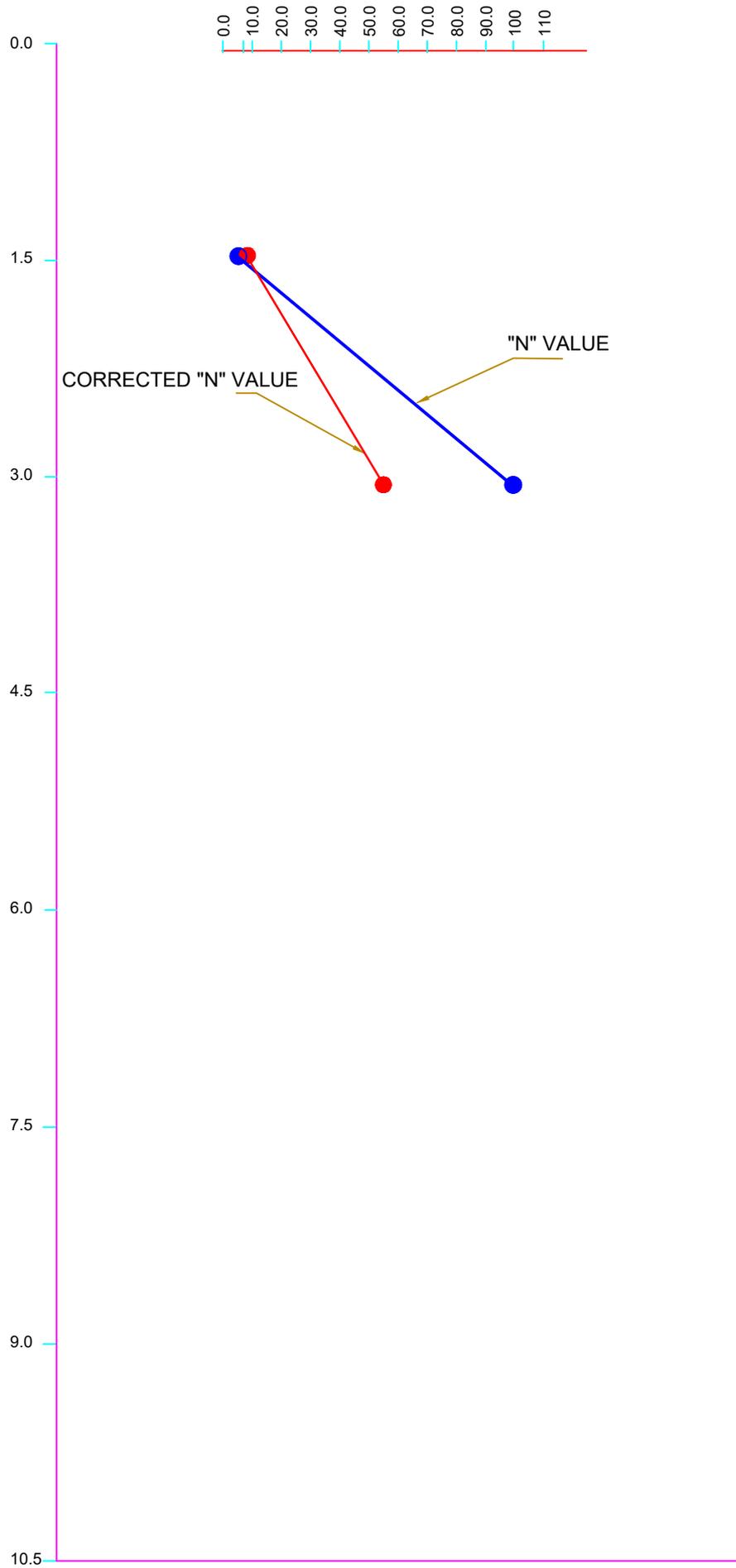
Table 1: BH -3 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
24.01.26	1	0	0.5						75	DS-1	Filling material
	2	1.5	1.95	2	2	3	5	10	75	SPT-1	Brown Sandy Soil
	3	3	3.45	19	54	71	125	70	75	SPT-2	Brown Sandy Soil with gravels

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use Bit	of	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To										
24.01.26	3.45	4.5	1.05	51	NX	IMP		S/T	Muddy	Sand with coarse gravel to cobble	Partial	11
	4.5	6	1.5	55	NX	IMP		S/T	Muddy	Sand with coarse gravel to cobble	Partial	9
	6	7.5	1.5	57	NX	IMP		S/T	Muddy	Sand with coarse gravel to cobble	Full	13
	7.5	9	1.5	55	NX	IMP		S/T	Greyish	Grey Clay	Full	0
	9	10.5	1.5	60	NX	IMP		S/T	Greyish	Sand grey clay with cobbles to boulder	Full	12
25.01.26	10.5	12	1.5	58	NX	IMP		S/T	Greyish	Sand with cobbles	Full	17
	12	13.5	1.5	56	NX	IMP		S/T	Greyish	Sand grey clay with cobbles to boulder	Full	11
	13.5	15	1.5	61	NX	IMP		S/T	Greyish	Sand grey clay with cobbles to boulder	Full	19

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
3,2		1	10.47	4.76		3.8	
2,2,2		2	6	4			
4,2,3		3	8.67	6			
--		4					
3,2,3		5	8	5.33			
4,2,2		6	7.33	5.33			
3,4,2,3		7	11.33	8			
5,3,2,2,3		8	12.67	10			

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

— "N" VALUE
— CORRECTED "N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-3

GEOLOGICAL LOG OF DRILL HOLE BH-03

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21' 22", N 27° 10' 36"	GROUND EL. : 149.44 M	BIT TYPE : DIAMOND BIT
TOTAL DEPTH : 15 M	COLLAR EL. : 149.00 M	DRILL MACHINE : GEO MACHINE
DRILLING PERIOD : 24/01/2026 - 25/01/2026	INCLINATION : 90	NAME OF DRILLER : MD.NAIM
	BEARING :	NAME OF SUPERVISOR : SIYARAM MAHTO
	LOGGING DATE : 6/02/2026	LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			LOSS	OTHER	NX	
0.5	FILLING MATERIAL																
1.5	BROWN SANDY SOIL			15%													
3.0	BROWN SANDY SOIL										2,2,3 N=5	75					N=10
3.45	BROWN SANDY SOIL WITH GRAVELS										19,54,71 N=125	75					N=70
4.5	FRACTURED ROCK			20%					W			75					REFUSAL AT 3.45 M
6.0	FRACTURED ROCK											75					
7.5	FRACTURED ROCK			20%								75					
9.0	FRACTURED ROCK			40%								75					
10.5	FRACTURED ROCK			40%								75					
12.0	FRACTURED ROCK											75					
13.5	FRACTURED ROCK			20%								75					
15.0	FRACTURED ROCK											75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-04

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'25", E-95°20'57"
 Test ID - BH-04

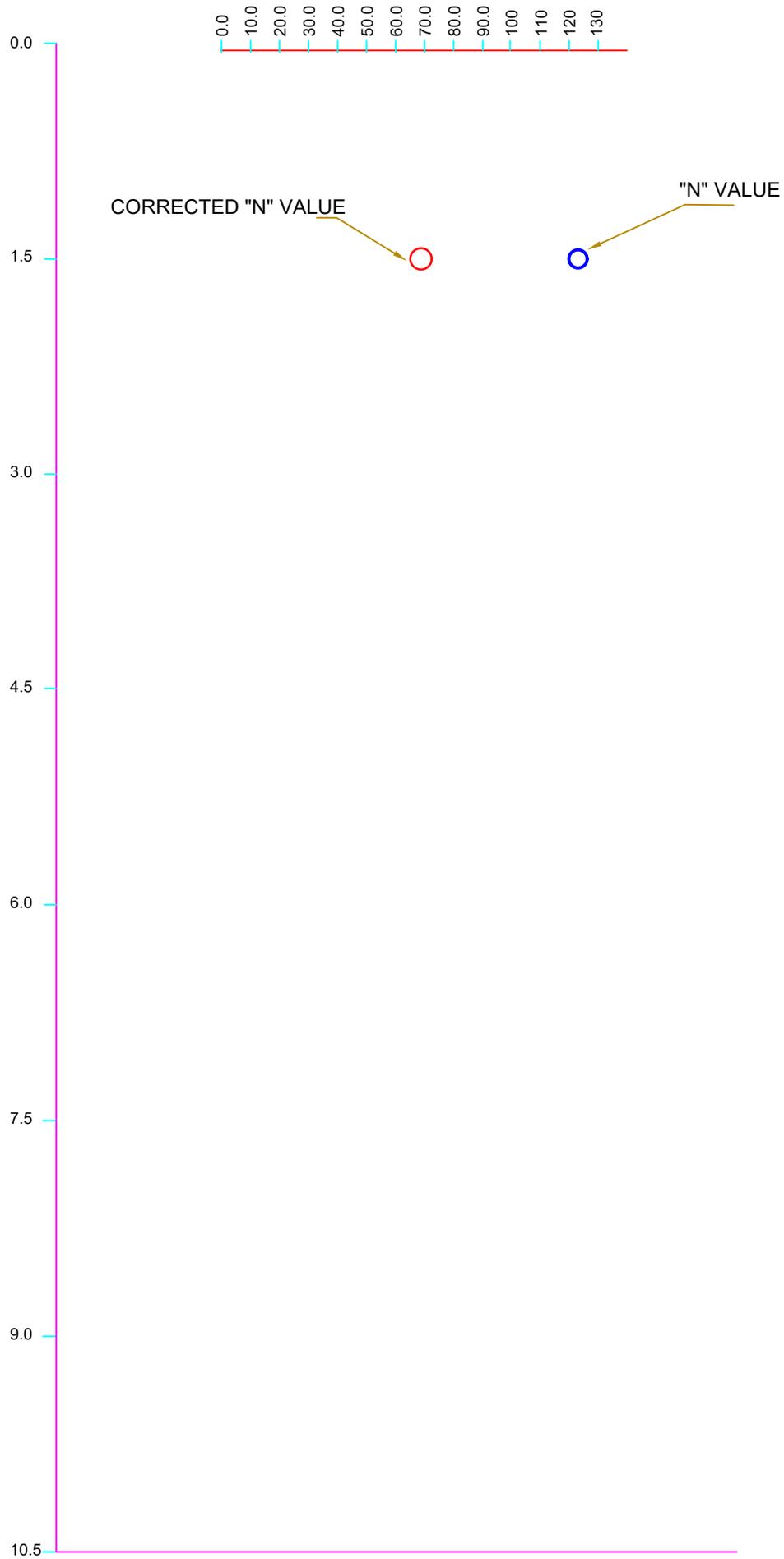
Table 1: BH -04 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
05.02.26	1	0	0.5							DS-1	Brown sandy soil
	2	1.5	1.95	39	57	66	123	69	75	SPT-1	Brown sandy soil with coarse gravel

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To									
05.02.26	1.95	3	1.05	45	NX	IMP	S/T	Muddy	Sand, grey clay with coarse gravel to boulder	Partial	13
	3	4.5	1.5	52	NX	IMP	S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Partial	17
	4.5	6	1.5	55	NX	IMP	S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Partial	11
	6	7.5	1.5	51	NX	IMP	S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Partial	23
	7.5	9	1.5	57	NX	IMP	S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Full	31
	9	10.5	1.5	60	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	19
	10.5	12	1.5	55	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	29
	12	13.5	1.5	50	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	15
	13.5	15	1.5	52	NX	IMP	S/T	Greyish	Sand with cobble to boulder	Full	21

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
2,2,5		1	12.38	8.57			
4,3,5,2		2	11.33	9.33		3.4m	
3,3,2		3	7.33	5.33			
7,2,4,3,3		4	15.33	12.67			
5,13,4,3,2	13	5	20.67	18	8.67		
3,2,3,6,3		6	12.67	11.33			
11,5,2,3,4	11	7	19.33	16.67	7.33		
3,5,2,2		8	10	8			
5,7,3,4		9	14	12.67			

NO OF BLOWS, N VALUE



SPT CURVE : N VALUE v/s DEPTH OF BH-04

— N" VALUE
— CORRECTED N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-04

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 20'57", N 27°10'25"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 05/02/2026 - 05/02/2026

GROUND EL. : 141.34 M
 COLLAR EL. : 141.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING RING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS	TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION	
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)					IN	PART	FILL		OTHER
0.5		BROWN SANDY SOIL																
1.5		BROWN SANDY CLAY			15%													
1.95		BROWN SANDY SOIL WITH COARSE GRAVELS									39,57.66 N=123							N=69
3.0		FRACTURED ROCK											75					REFUSAL AT 1.95 M
3.45		FRACTURED ROCK								W			75					
4.5		FRACTURED ROCK			20%								75					
6.0		FRACTURED ROCK											75					
7.5		FRACTURED ROCK			20%								75					
9.0		FRACTURED ROCK			40%								75					
10.5		FRACTURED ROCK			40%								75					
12.0		FRACTURED ROCK											75					
13.5		FRACTURED ROCK			20%								75					
15.0		FRACTURED ROCK											75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-05

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'36", E-95°21'22"
 Test ID - BH-05

Table 1: BH -5 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
24.01.26	1	0	0.5							DS-1	Filling materials
	2	1.5	1.95	2	2	3	5	10	75	SPT-1	Medium dense grey clay
	3	3	3.45	2	2	2	4	9.5	75	SPT-2	Medium dense grey clay
	4	4.5	4.95	2	2	4	6	10.5	75	SPT-3	Medium dense grey clay
	5	6	6.45	15	45	67	112	63.5	75	SPT-4	Medium dense grey clay with gravel

Water level at 4m.

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To									
26.01.26	6.45	7.5	1.05	48	NX	IMP	S/T	Greyish	Sand clay with gravel to boulder	Full	13
	7.5	9	1.5	56	NX	IMP	S/T	Greyish	Sand clay with gravel to boulder	Full	11
	9	10.5	1.5	55	NX	IMP	S/T	Greyish	Sand clay with gravel to boulder	Full	9
	10.5	12	1.5	62	NX	IMP	S/T	Greyish	Sand clay with gravel to boulder	Full	12
	12	13.5	1.5	61	NX	IMP	S/T	Greyish	Sand with gravel to boulder	Full	10
	13.5	15	1.5	65	NX	IMP	S/T	Greyish	Sand with gravel to boulder	Full	13

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
3,2,2,3		1	12.38	9.52			
2,3,3		2	7.33	5.33			
2,3,2		3	6	4.67			
7,2		4	8	6			
5,2		5	6.67	4.67			
5,4,2		6	8.67	7.33			



GEOLOGICAL LOG OF DRILL HOLE BH-05

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21' 22" , N 27° 10' 30"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 25/01/2026 - 26/01/2026

GROUND EL. : 147.76 M
 COLLAR EL. : 147.10 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			LOSS	TO	NX	
0.5	FILLING MATERIAL																
1.5	MEDIUM DENCE GREY CLAY			15%													
3.0	MEDIUM DENCE GREY CLAY										2.2.3 N=5	75					N=10
4.5	MEDIUM DENCE GREY CLAY			20%					W		2.2.2 N=4	75					N=9.5
6.0	MEDIUM DENCE GREY CLAY										2.2.4 N=6	75					N=10.5
6.45	MEDIUM DENCE GREY CLAY WITH GRAVEL										15.45.67 N=112	75					N=63.5
7.5	FRACTURED ROCK			20%													REFUSAL AT 6.45 M
9.0	FRACTURED ROCK			40%													
10.5	FRACTURED ROCK			40%													
12.0	FRACTURED ROCK																
13.5	FRACTURED ROCK			20%													
15.0	FRACTURED ROCK																

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

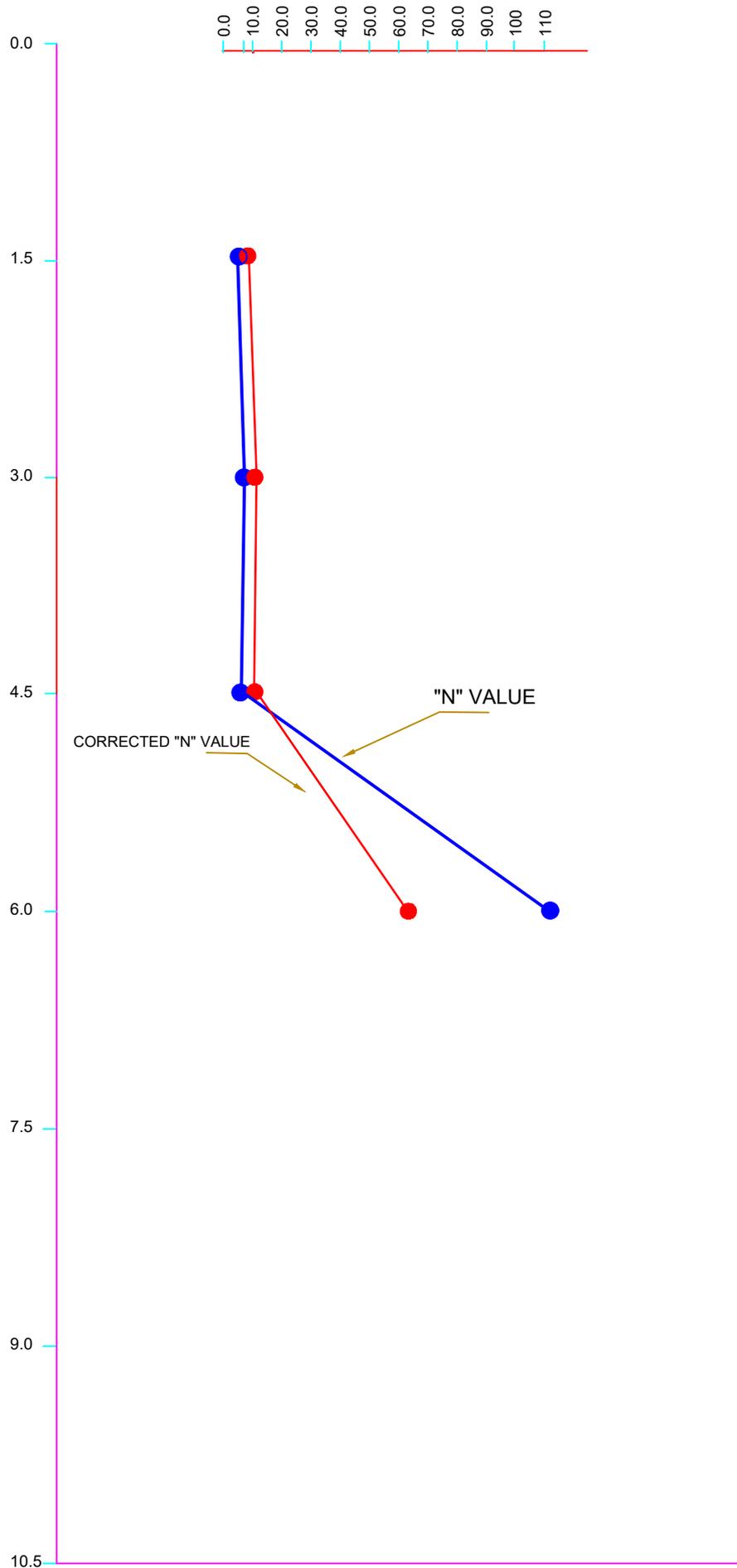
CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

NO OF BLOWS, N VALUE



"N" VALUE
CORRECTED "N" VALUE

— "N" VALUE
— CORRECTED "N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-5

BH-06

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'36", E-95°21'22"
 Test ID - BH-06

Table 1: BH -6 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
24.01.26	1	0	0.5							DS-1	Filling materials
	2	1.5	1.95	1	1	2	3	9	75	SPT-1	Medium dense grey clay
	3	3	3.45	2	2	4	6	10.5	75	SPT-2	Medium dense grey clay
	4	4.5	4.95	49	67	63	120	67.5	75	SPT-3	Medium dense grey clay

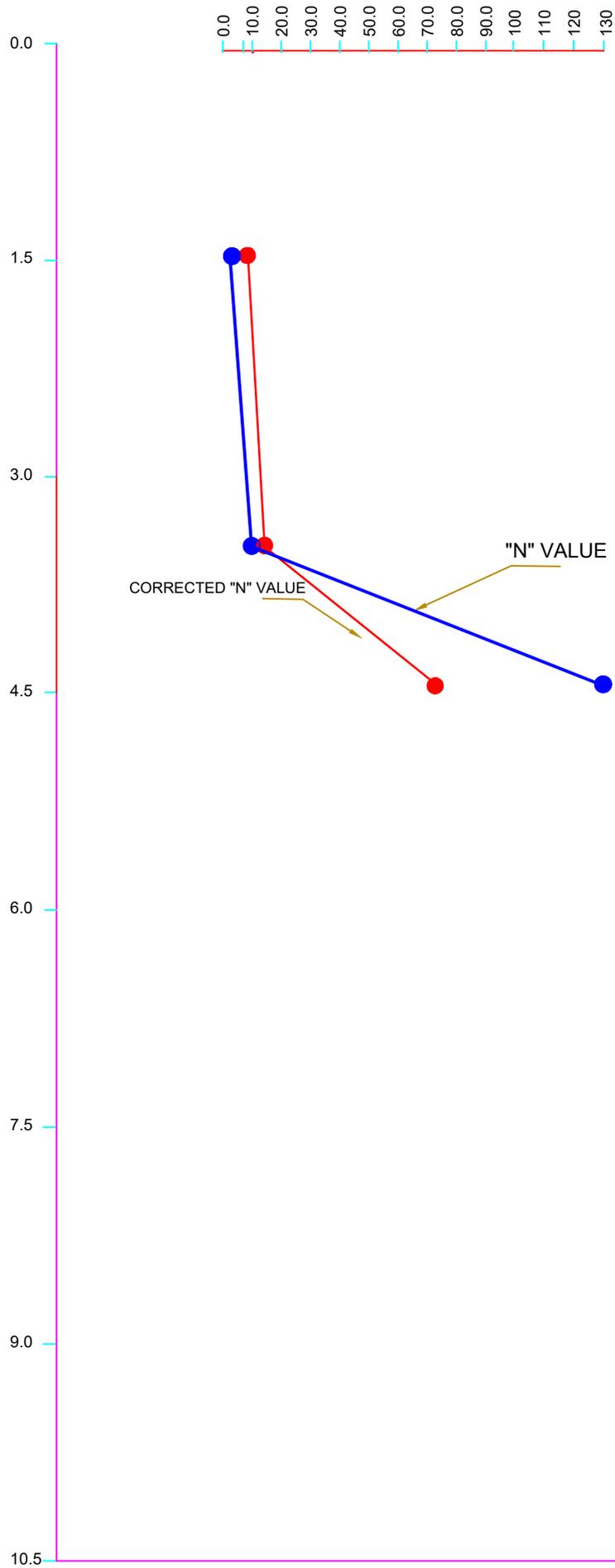
Water level at 3.9m.

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To									
26.01.26	4.95	6	1.05	52	NX	IMP	S/T	Greyish	Sand , clay with coarse cobble	Partial	14
	6	7.5	1.5	60	NX	IMP	S/T	Greyish	Sand , clay with coarse cobble	Partial	13
	7.5	9	1.5	57	NX	IMP	S/T	Greyish	Sand , clay with coarse cobble to boulder	Full	9
	9	10.5	1.5	62	NX	IMP	S/T	Greyish	Sand , clay with coarse cobble to boulder	Full	11
27.01.26	10.5	12	1.5	65	NX	IMP	S/T	Greyish	Sand , clay with coarse cobble to boulder	Full	17
	12	13.5	1.5	55	NX	IMP	S/T	Greyish	Sand with boulder	Full	21
	13.5	15	1.5	57	NX	IMP	S/T	Greyish	Sand with boulder	Full	29

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
3,4,2		1	13.33	8.57			
3,3,2		2	8.67	5.33			
2,3,2		3	6	4.67			
3,3,2		4	7.33	5.33			
4,3,2		5	11.33	9.33			
6,2,2,3		6	14	8.67			
3,4,4,2		7	19.33	8.67			



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

— "N" VALUE

— CORRECTED "N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-06

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'17", N 27°10'37"	GROUND EL. : 145.96 M	BIT TYPE : DIAMOND BIT
TOTAL DEPTH : 15 M	COLLAR EL. : 145.00 M	DRILL MACHINE : GEO MACHINE
DRILLING PERIOD : 26/01/2026 - 27/01/2026	INCLINATION : 90	NAME OF DRILLER : MD.NAIM
	BEARING :	NAME OF SUPERVISOR : SIYARAM MAHTO
	LOGGING DATE : 6/02/2026	LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING RING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS		TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			LOSS	OTHER	NX	
0.5		FILLING MATERIAL																
1.5		MEDIUM DENSE GREY CLAY			15%													
3.0		MEDIUM DENSE GREY CLAY										1,1,2 N=3	75					N=9
4.5		MEDIUM DENSE GREY CLAY			20%				WL			2,2,4 N=6	75					N=10.5
4.95		MEDIUM DENSE GREY CLAY										49,67,65 N=120	75					N=67.5
6.0		FRACTURED ROCK																REFUSAL AT 4.95 M
7.5		FRACTURED ROCK			20%													
9.0		FRACTURED ROCK			40%													
10.5		FRACTURED ROCK			40%													
12.0		FRACTURED ROCK																
13.5		FRACTURED ROCK			20%													
15.0		FRACTURED ROCK																

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-07

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'36", E-95°21'22"
 Test ID - BH-07

Table 1: BH -7 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
24.01.26	1	0	0.5							DS-1	Filling materials
	2	1.5	1.95	1	2	3	5	10	75	SPT-1	Grey Clay
	3	3	3.45	2	2	4	6	10.5	75	SPT-2	Grey Clay
	4	4.5	4.95	12	43	67	110	62.5	75	SPT-3	Grey Clay with gravel

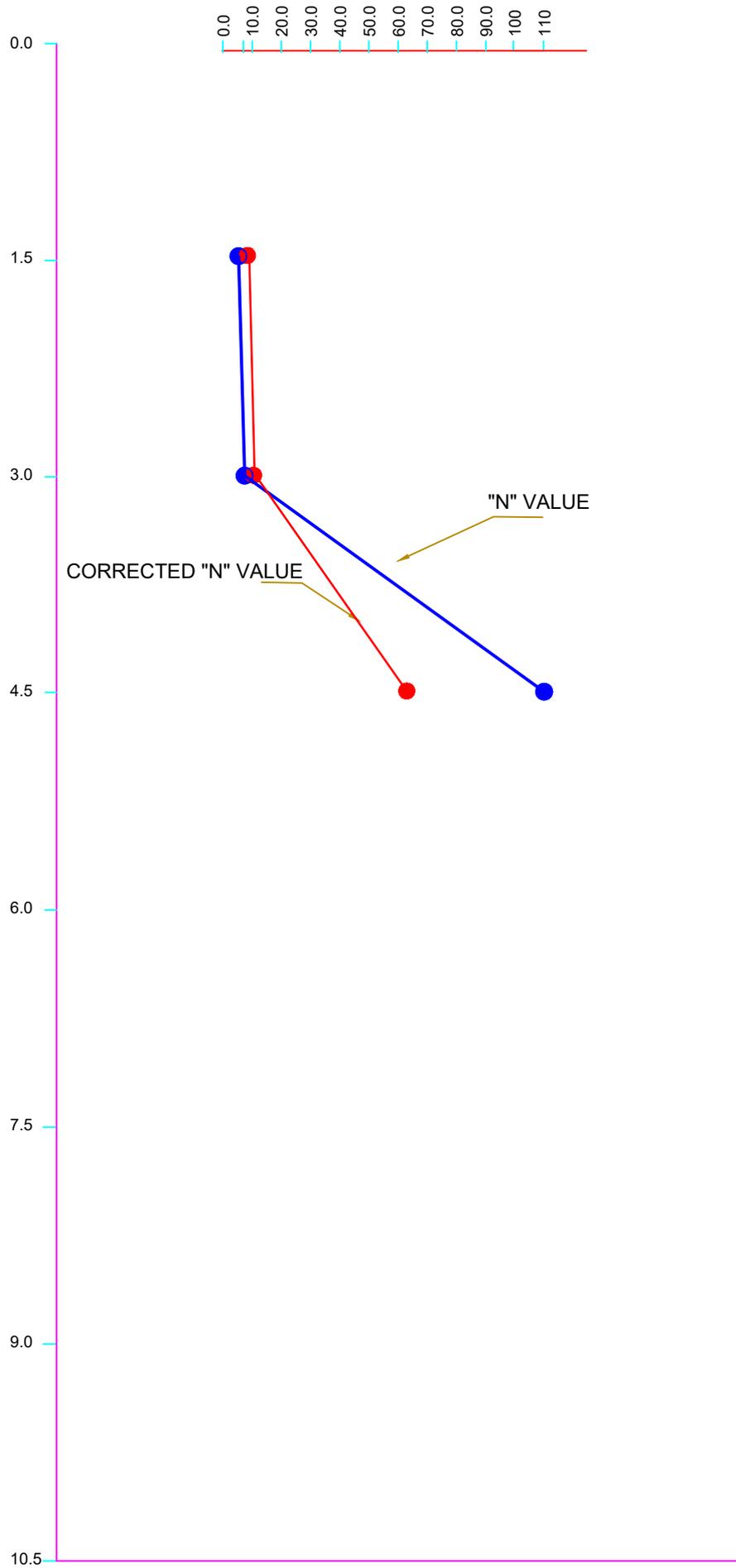
Water level at 3.8m.

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To									
27.01.26	4.95	6	1.05	48	NX	IMP	S/T	Greyish	Sand with clay coarse, cobbles to boulder	Full	21
	6	7.5	1.5	56	NX	IMP	S/T	Greyish	Sand with clay coarse, cobbles to boulder	Full	11
	7.5	9	1.5	61	NX	IMP	S/T	Greyish	Sand with clay coarse, cobbles to boulder	Full	15
	9	10.5	1.5	55	NX	IMP	S/T	Greyish	Sand with cobbles to boulder	Full	17
28.01.26	10.5	12	1.5	63	NX	IMP	S/T	Greyish	Sand with cobbles to boulder	Full	13
	12	13.5	1.5	57	NX	IMP	S/T	Greyish	Sand with cobbles to boulder	Full	14
	13.5	15	1.5	55	NX	IMP	S/T	Greyish	Sand with cobbles to boulder	Full	17

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
8,5,2		1	20	14.28			
3,2,2		2	7.33	4.67			
4,3,3,2		3	10	8			
7,2,3		4	11.33	8			
3,4,2		5	8.67	6			
9,3		6	9.33	8			
6,4,2		7	11.33	8			



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-07

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'14" , N 27°10'36"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 27/01/2026 - 28/01/2026

GROUND EL. : 145.92 M
 COLLAR EL. : 145.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 ELEVATION (M)	3 LITHOLOGY		4 WEATHERING RING (W)	5 CORE RECOVERY %	6 ROD	7 STRUCTURAL CONDITION			8 WATER LEVEL	9 WATER LOSS	10 TEST SECTION SPT	11 HOLE SIZE	12 CASING			13 SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)					IN	PART	FILL	
0.5		FILLING MATERIAL															
1.5		GREY CLAY			15%												
3.0		GREY CLAY									1,2,3 N=5	75					N=10
4.5		GREY CLAY WITH GRAVEL			20%				WL		2,2,4 N=6	75					N=10.5
4.95		GREY CLAY WITH GRAVEL									1,2,4,5,6,7 N=110						N=62.5
6.0		FRACTURED ROCK															REFUSAL AT 4.95 M
7.5		FRACTURED ROCK			20%												
9.0		FRACTURED ROCK			40%												
10.5		FRACTURED ROCK			40%												
12.0		FRACTURED ROCK															
13.5		FRACTURED ROCK			20%												
15.0		FRACTURED ROCK															

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-08

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'25", E-95°21'25"
 Test ID - BH-08

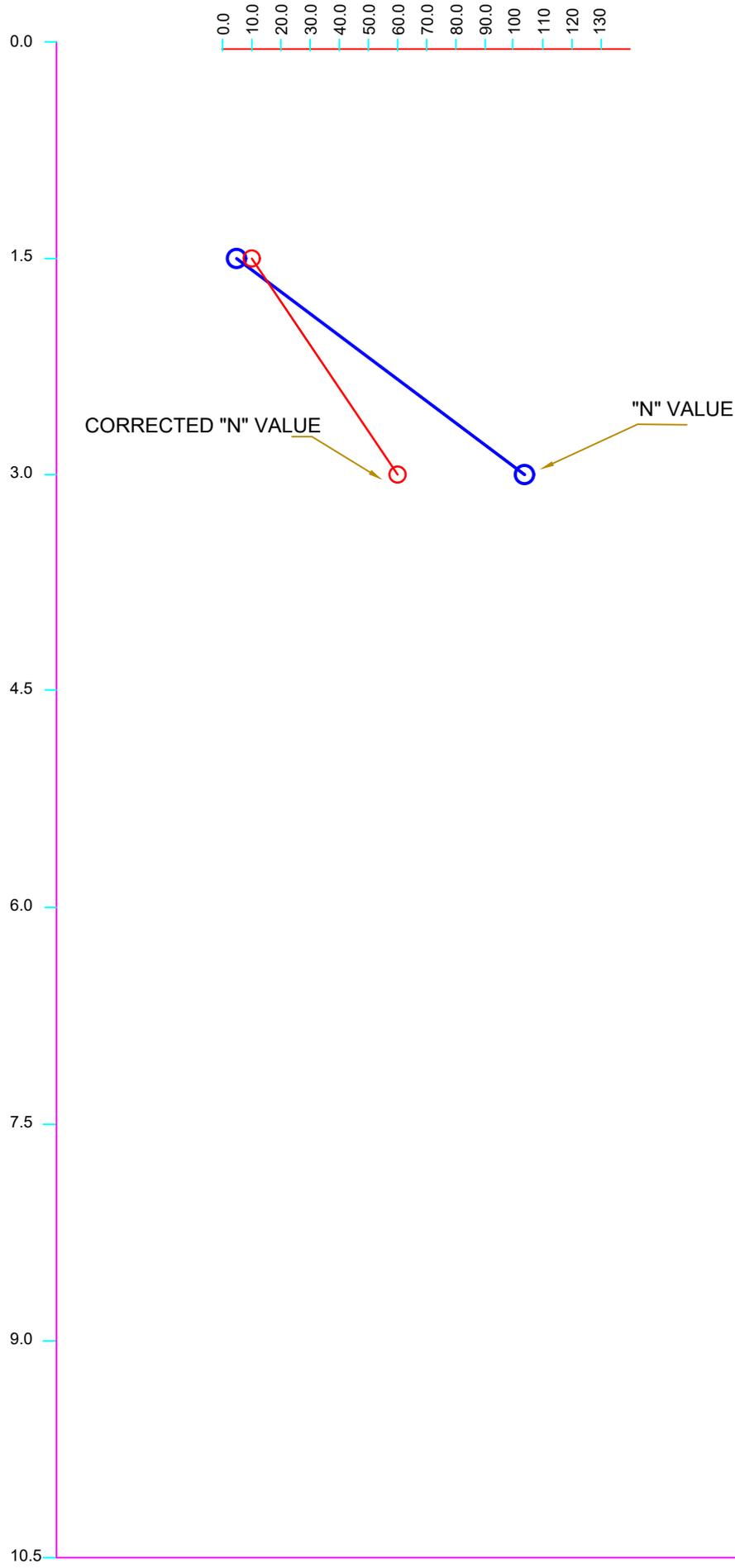
Table 1: BH -08 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
03.02.26	1	0	0.5							DS-1	Brown sandy soil
	2	1.5	1.95	2	2	3	5	10	75	SPT-1	Brown sandy soil
		3	3.45	27	43	61	104	59.5	75	SPT-2	Grey clay with coarse gravel

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Use Bit	of	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To										
04.02.26	3.45	4.5	1.05	45	NX	IMP		S/T	Muddy	Sand, grey clay with coarse gravel to boulder	Partial	14
	4.5	6	1.5	52	NX	IMP		S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Partial	17
	6	7.5	1.5	57	NX	IMP		S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Full	11
	7.5	9	1.5	55	NX	IMP		S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Full	26
	9	10.5	1.5	50	NX	IMP		S/T	Greyish	Sand, grey clay with coarse gravel to boulder	Full	21
	10.5	12	1.5	62	NX	IMP		S/T	Greyish	Sand with cobble to boulder	Full	19
	12	13.5	1.5	55	NX	IMP		S/T	Greyish	Sand with cobble to boulder	Full	14
	13.5	15	1.5	50	NX	IMP		S/T	Greyish	Sand with cobble to boulder	Full	15

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
3,4,2,2		1	13.33	10.47		4m	
5,2,3,2		2	11.33	8			
2,2,4		3	7.33	5.33			
12,4,3,2	12	4	17.33	14	8		
6,3,2,5,2		5	14	12			
4,3,3,5		6	12.67	10			
3,4,4		7	9.33	7.33			
2,2,5,3		8	10	8			

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-08

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21' 25" , N 27° 10' 25"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 03/02/2026 - 04/02/2026

GROUND EL. : 146.33 M
 COLLAR EL. : 146.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			LOSS	OTHER	NX	
0.5	FILLING MATERIAL																
1.5	BROWN SANDY SOIL			15%													
3.0	BROWN SANDY SOIL										2.2,3 N=5	75					N=10
3.45	GREY CLAY WITH GRAVEL										27,43,61 N=104						N=59.5
4.5	FRACTURED ROCK			20%									75				REFUSAL AT 3.45 M
6.0	FRACTURED ROCK												75				
7.5	FRACTURED ROCK			20%									75				
9.0	FRACTURED ROCK			40%									75				
10.5	FRACTURED ROCK			40%									75				
12.0	FRACTURED ROCK												75				
13.5	FRACTURED ROCK			20%									75				
15.0	FRACTURED ROCK												75				

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

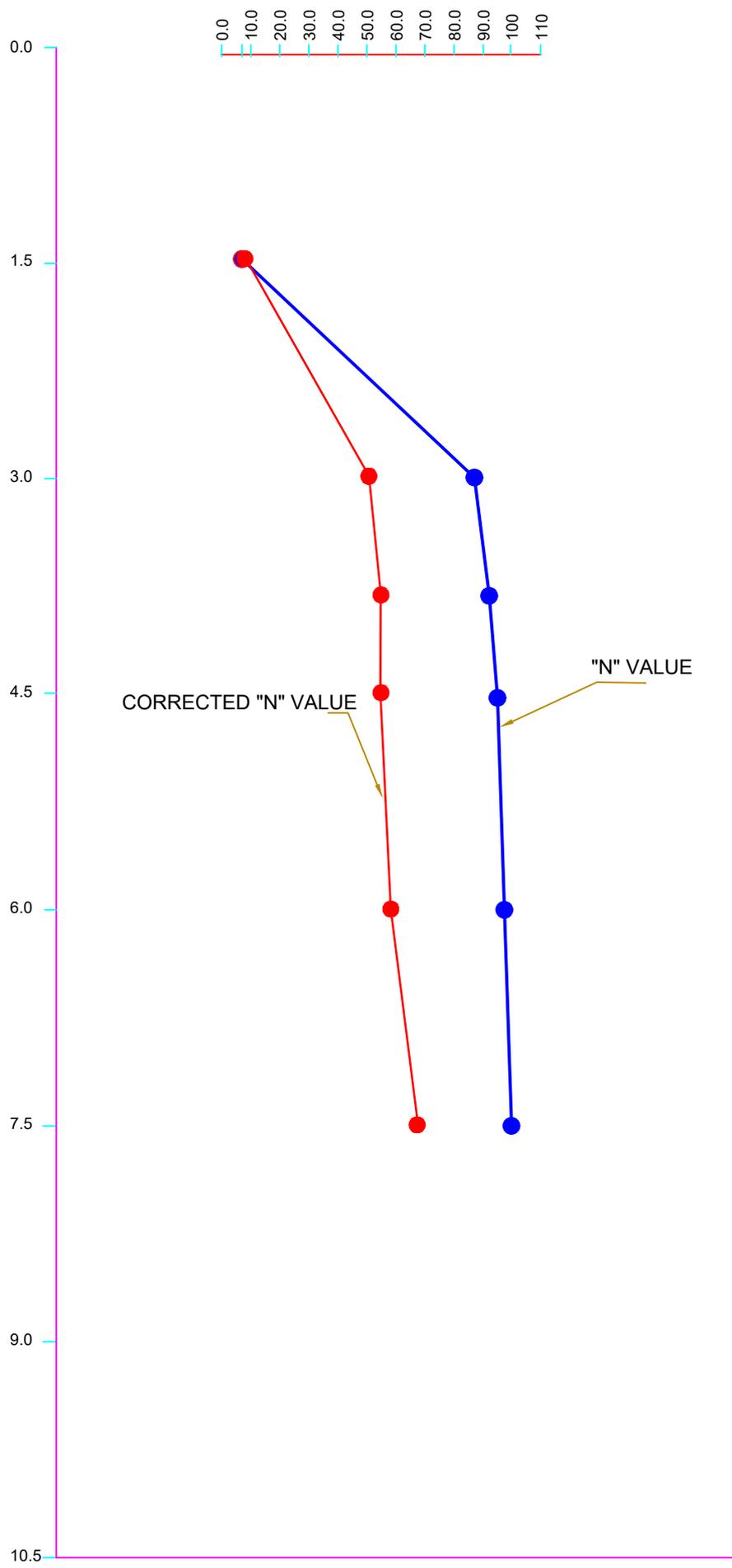
PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-9

— "N" VALUE
— CORRECTED "N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-9

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'19" , N 27°10'29"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 23/01/2026 - 24/01/2026

GROUND EL. : 147.72 M
 COLLAR EL. : 147.5 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING RING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS		TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			LOSS	OTHER	NX	
0.5		FILLING MATERIAL											2,3,4 N=7	75				N=7
1.5		GREY CLAY			15%								27,36,51 N=87	75				N=51
3.0		GREY CLAY WITH GRAVELS											34,39,53 N=92	75				N=53.5
4.5		FEACTURED ROCK WITH GRAVELS			20%								35,40,55 N=95	75				N=55
6.0		FEACTURED ROCK WITH GRAVELS			20%								37,41,56 N=97	75				N=56
7.5		FEACTURED ROCK WITH GRAVELS			20%								38,42,57 N=99	75				N=57
9.0		FEACTURED ROCK WITH GRAVELS			20%									75				
10.5		FRACTURED ROCK												75				REFUSAL AT 10.5 M
12.0					20%									75				
13.5														75				
15.0														75				

INDEX

	BROKEN FRAGMENTS OF ROCKS & BUILDING ETC. MIXED WITH SOIL		FRACTURED ROCK
	GREY DENSE CLAY WITH PEBBLES		
	HIGHLY WREATHED BOULDERS MIXED WITH THIN LAYERS OF PEBBLES & SAND		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders,mixed with pebbles & sand material from 3.5 to 15 m depth fractured & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

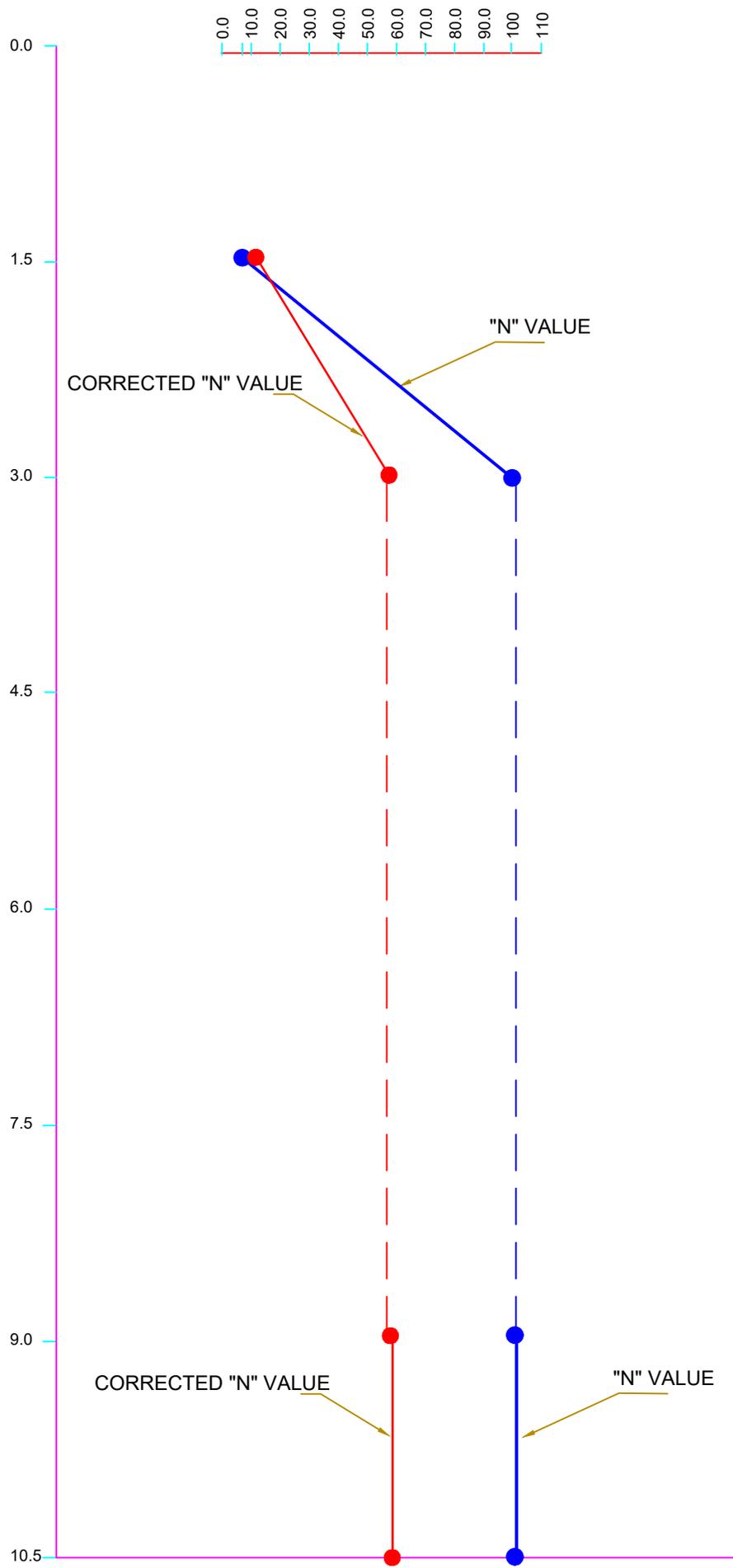
PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-10

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'17", N 27°10'24"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 21/01/2026 - 22/01/2026

GROUND EL. : 146.57 M
 COLLAR EL. : 146.1 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 ELEVATION (M)	3 LITHOLOGY		4 WEATHERING RING (W)	5 CORE RECOVERY %	6 ROD LOG	7 STRUCTURAL CONDITION			8 WATER LEVEL	9 TEST SECTION SPT	10 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION		
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUENCY (J)				IN	WATER PART	LOSS FILL		OTHER	NX
0.5		FILLING MATERIAL																
1.5		GREY DENSE CLAY WITH PEBBLES			15%						3,3,4 N=7	75						N=11
3.0		SAND GRAVEL									11,48,52 N=100	75						N=57.5
4.5		HIGHLY WREATHED BOULDERS MIXED WITH THIN LAYERS OF PEBBLES & SAND			20%							75						
6.0		FEACTURED ROCK WITH GRAVEL										75						
7.5		FEACTURED ROCK WITH GRAVEL			20%							75						
9.0		NO DISPLACEMENT AS BOULDER FOUND IN BOREHOLE									40,46,55 N=101	75						N=58
10.5		FEACTURED ROCK WITH GRAVEL			20%							75						
12.0		FEACTURED ROCK WITH GRAVEL									42,47,54 N=106	75						N=58
13.5		FEACTURED ROCK			20%							75						
15.0		FEACTURED ROCK										75						REFUSAL AT 13.5 M

INDEX

	BROKEN FRAGMENTS OF ROCKS & BUILDING ETC. MIXED WITH SOIL		FRACTURED ROCK
	GREY DENSE CLAY WITH PEBBLES		
	HIGHLY WREATHED BOULDERS MIXED WITH THIN LAYERS OF PEBBLES & SAND		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 15 m depth fractured & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

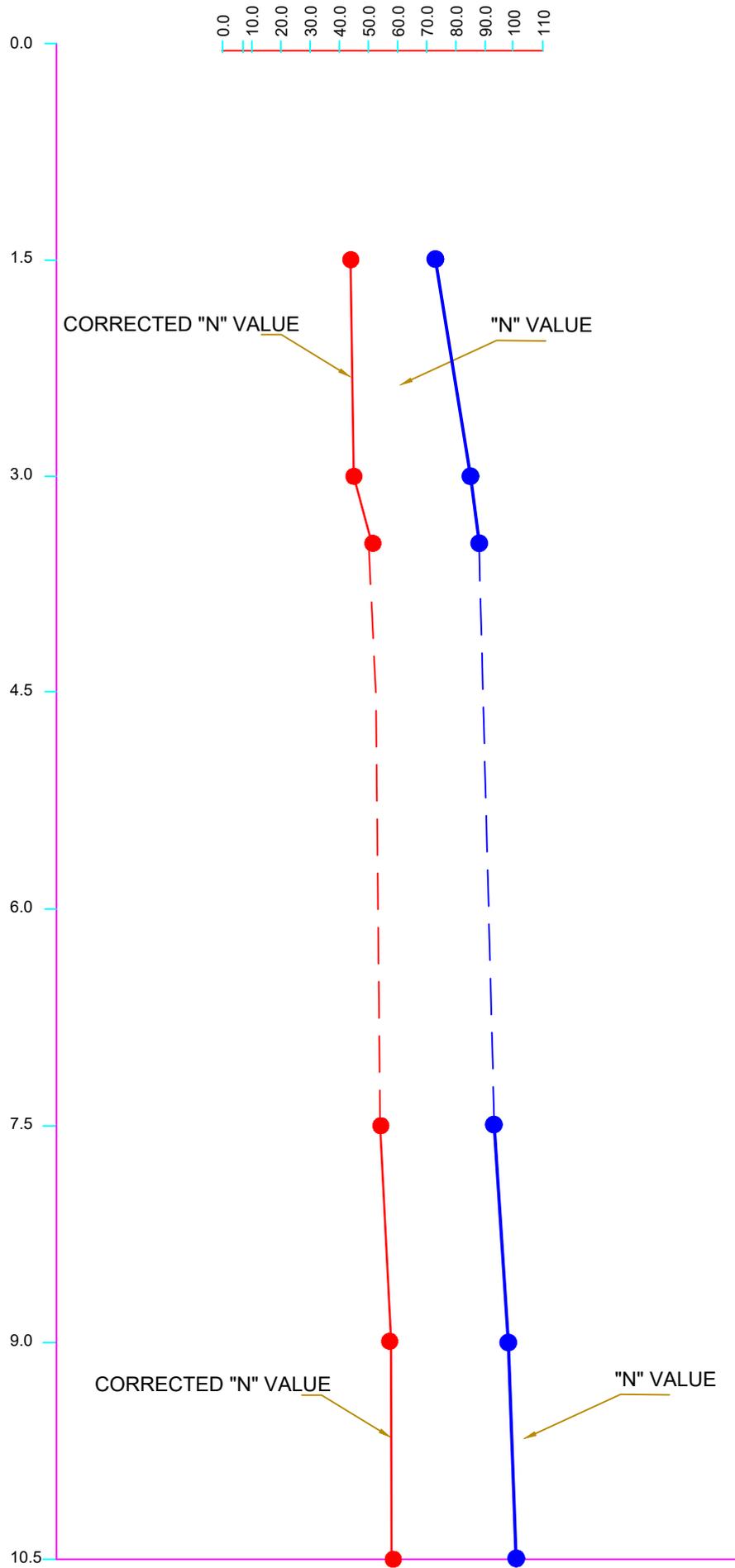
BH-11

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'28", E-95°21'14"
 Test ID - BH-11

Table 1: BH -11 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N ^o Corrected	Height of Jar Block (cm)	Remarks
		From	To	S	P	T				
				15	15	15				
19.01.26	1	0	0.5	-	-	-			75	DS-1
	2	1.5	1.95	17	32	41	73	44	75	SPT-1 Silty sand with gravel
	3	3	3.45	28	32	43	75	45	75	SPT-2 Silty sand with gravel
	4	3.45	4.5	32	35	53	88	51.5	75	
20.01.26	5	4.5	6	35	-	-	-		75	No displacement as boulder is found in borehole
	6	6	7.5	35	-	-	-		75	- Do-
	7	7.5	9	37	38	55	93	54	75	Fractured rock with gravel
	8	9	10.5	40	42	56	98	56.5	75	Fractured rock with gravel
	9	10.5	12	41	43	57	100	57.5	75	Fractured rock with gravel
	10	12	13.5	100	-	-	-		75	Refusal as N>100 rock
	11	13.5	15	-	-	-	-		75	rock

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

CORRECTED "N" VALUE

"N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-11

— "N" VALUE
— CORRECTED N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-11

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'14" , N 27°10'28"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 19/01/2026 - 20/01/2026

GROUND EL. : 145.38 M
 COLLAR EL. : 145.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			TO	NX	HX	
0.5	SILTY SOIL WITH GRAVEL											17,32,41 N=73	75				N=44
1.5	SILTY SAND WITH GRAVEL			15%								28,32,43 N=75	75				N=45
3.0	SILTY SAND WITH GRAVEL											32,35,53 N=88	75				N=51.5
4.5	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			20%				W					75				
6.0	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER												75				
7.5	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			20%									75				
9.0	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			40%								37,33,55 N=93	75				N=54
10.5	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			40%								40,42,56 N=98	75				N=56.5
12.0	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER											41,43,57 N=100	75				N=57.5
13.5	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			20%									75				
15.0	FRACTURED ROCK												75				REFUSAL AT 13.5 M

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-12

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'36", E-95°21'22"
 Test ID - BH-12

Table 1: BH -12 SPT Chart

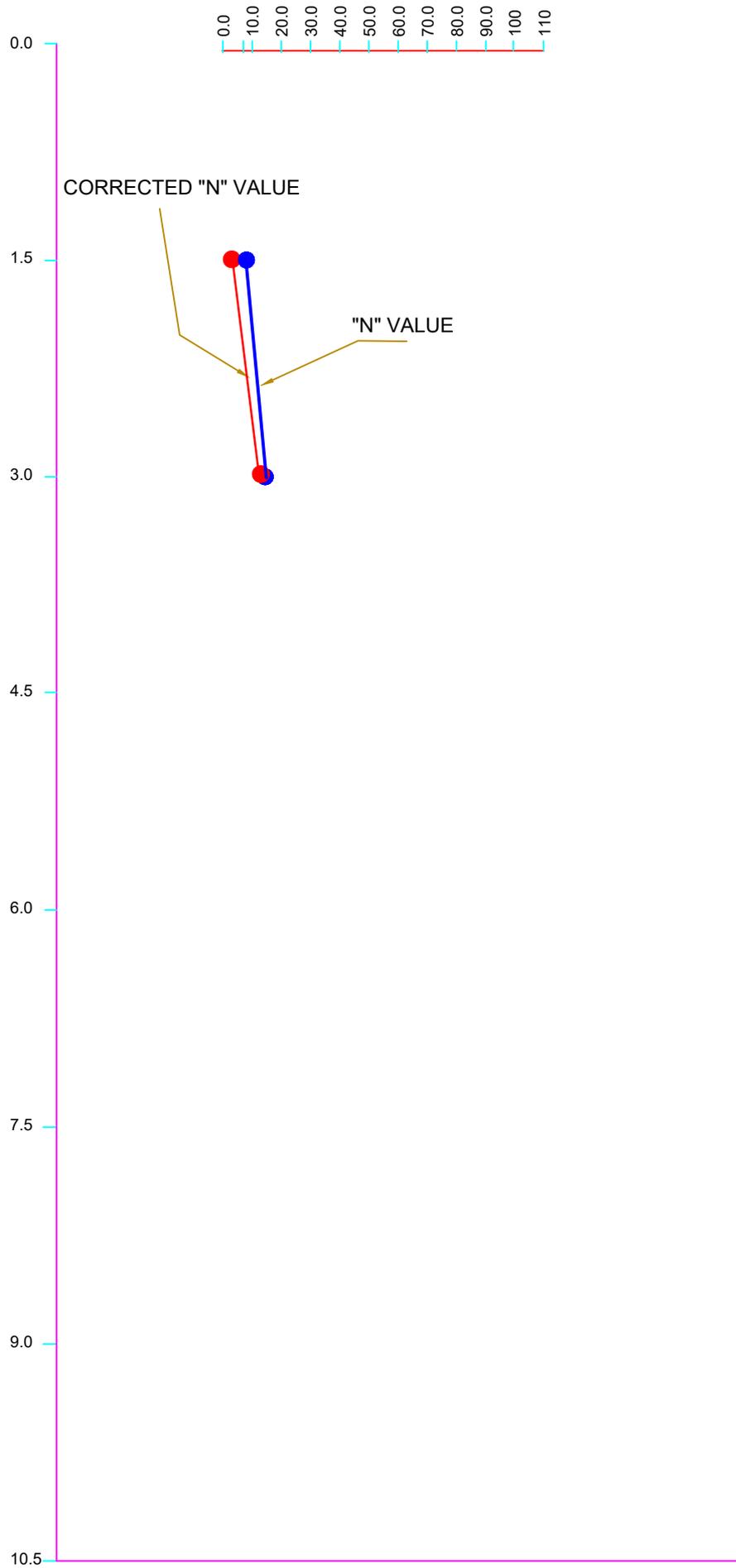
Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
24.01.26	1	0	0.5							DS-1	Brown sandy clay soil
	2	1.5	1.95	1	1	2	3	9	75	SPT-1	Brown clay
		3	3.45	3	5	8	13	14	75	SPT-2	Brown clay
			4				N>100				

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Size of hole	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To										
28.01.26	4	4.5	0.5	27	NX		IMP	S/T	Muddy	Sand with coarse gravel	Partial	14
	4.5	6	1.5	56	NX		IMP	S/T	Muddy	Sand with coarse gravel	Partial	19
	6	7.5	1.5	60	NX		IMP	S/T	Greyish	Sand with coarse gravel	Full	13
	7.5	9	1.5	55	NX		IMP	S/T	Greyish	Sand with coarse gravel	Full	9
	9	10.5	1.5	61	NX		IMP	S/T	Greyish	Sand with coarse gravel	Full	26
29.01.26	10.5	12	1.5	65	NX		IMP	S/T	Greyish	Sand with coarse gravel	Full	16
	12	13.5	1.5	56	NX		IMP	S/T	Greyish	Sand with coarse gravel	Full	12
	13.5	15	1.5	60	NX		IMP	S/T	Greyish	Sand with coarse gravel	Full	21

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
4,2,3,2		1	28	22		4.2	
8,3,3,2		2	12.67	12			
4,3,2,2		3	8.67	8			
2,3,2		4	6	4.67			
11,3,2,4,2	11	5	17.33	14.67	7.33		
4,2,3,2,2		6	10.67	8.67			
4,2,2		7	8	5.33			
5,3,2,4		8	14	9.33			



NO OF BLOWS, N VALUE



SPT CURVE : N VALUE v/s DEPTH OF BH-12

— N' VALUE
— CORRECTED N' VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-12

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'07" , N 27°10'34"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 28/01/2026 - 29/01/2026

GROUND EL. : 147.26 M
 COLLAR EL. : 147.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART			LOSS	FILL	OTHER	
0.5	BROWN SANDY CLAY SOIL											1,1,2 N=73	75				N=44
1.5	BROWN CLAY			15%								28,32,43 N=75	75				N=45
3.0	BROWN CLAY											32,35,53 N=88	75				N=51.5
4.0				9%													REFUSAL AT 4.0 M
4.5																	
6.0																	
7.5				20%													
9.0				40%													
10.5				40%													
12.0																	
13.5	FRACTURED ROCK			20%													
15.0																	

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-13

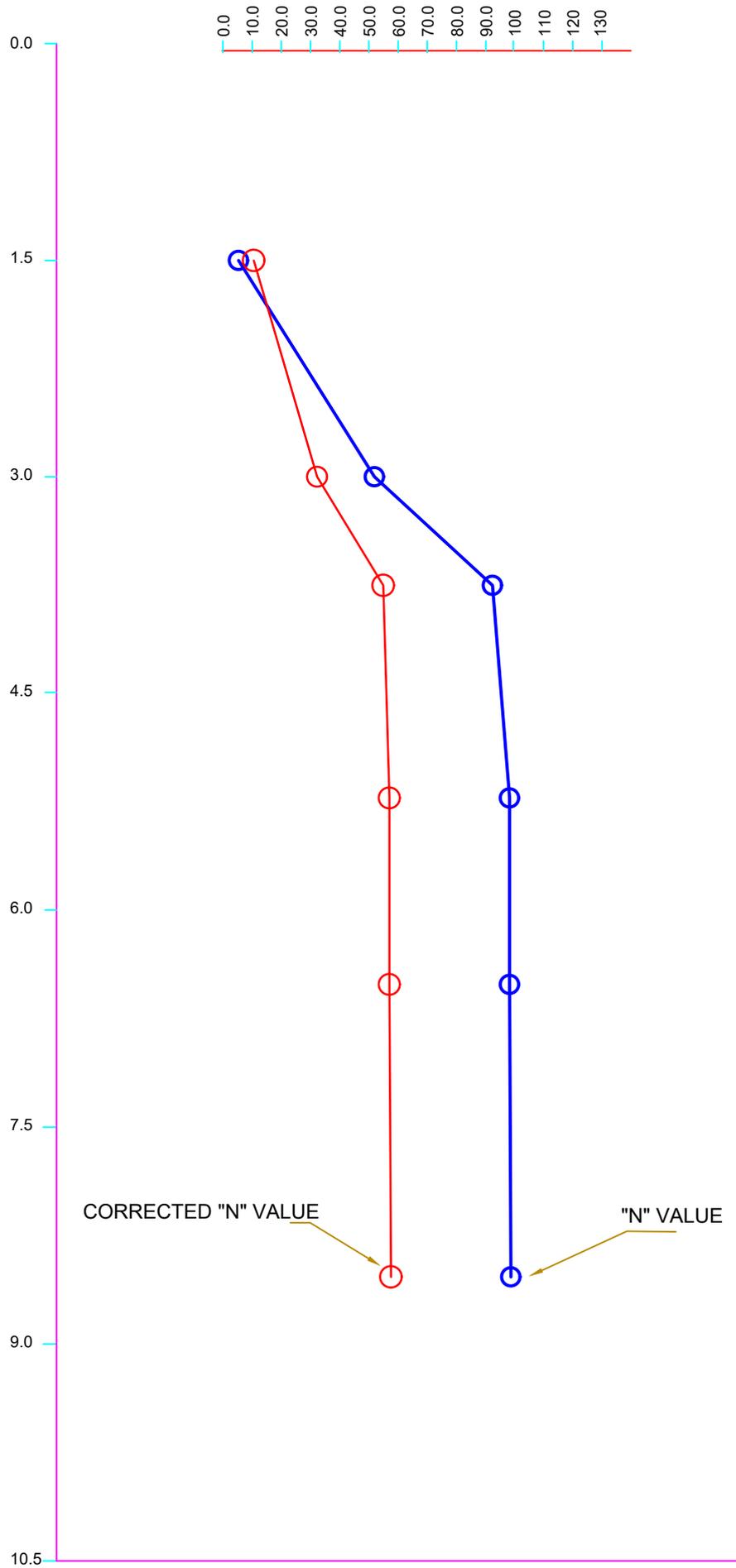
Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'40", E-95°21'02"
 Test ID - BH-13

Table 1: BH -13 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)	Remarks
		From	To	S	P	T				
05.01.26	1	0	0.5							DS-1 Filling Material
	2	1.5	1.95	2	3	3	6	10.5	75	SPT-1 Brown Sandy Soil
	3	3	3.45	6	17	35	52	33.5	75	SPT-2 Brown silty sand with gravel
	4	3.45	5	33	44	49	93	54	75	Fractured rock with gravel
	5	5	6.5	32	48	49	97	56	75	Fractured rock with gravel
	6	6.5	8.5	34	48	49	97	56	75	Fractured rock with gravel
06.01.26	7	8.5	10	41	49	49	98	56.5	75	Fractured rock with gravel
	8	10	11.5	100	-	-	-		75	Refusal as N>100 rock
	9	11.5	13	-	-	-	-			Rock
	10	13	14.5	-	-	-	-			Rock
	11	14.5	15	-	-	-	-			rock



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-13

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'02" , N 27°10'40"	GROUND EL. : 147.91 M	BIT TYPE : DIAMOND BIT
TOTAL DEPTH : 15 M	COLLAR EL. : 147.00 M	DRILL MACHINE : GEO MACHINE
DRILLING PERIOD : 05/01/2026 - 06/01/2026	INCLINATION : 90	NAME OF DRILLER : MD.NAIM
	BEARING :	NAME OF SUPERVISOR : SIYARAM MAHTO
	LOGGING DATE : 6/02/2026	LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS	TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)					IN	PART	FILL	
0.5		BROWN SANDY SOIL									2,3,3 N=6	75					N=10.5
1.5		BROWN SANDY SOIL			15%						6,17,36 N=52	75					N=33.5
3.0		BROWN SILTY SAND WITH GRAVEL									33,44,49 N=93	75					N=54
4.5		FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			20%							75					
6.0		FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER										75					
7.5		FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			20%						32,48,49 N=97	75					N=56
9.0		FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			40%						34,48,49 N=97	75					N=56
10.5		FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER			40%						41,49,49 N=98	75					N=56.5
11.5		FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER										75					
12.0		FRACTURED ROCK															REFUSAL AT 11.5 M
13.5		FRACTURED ROCK			20%							75					
15.0												75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-14

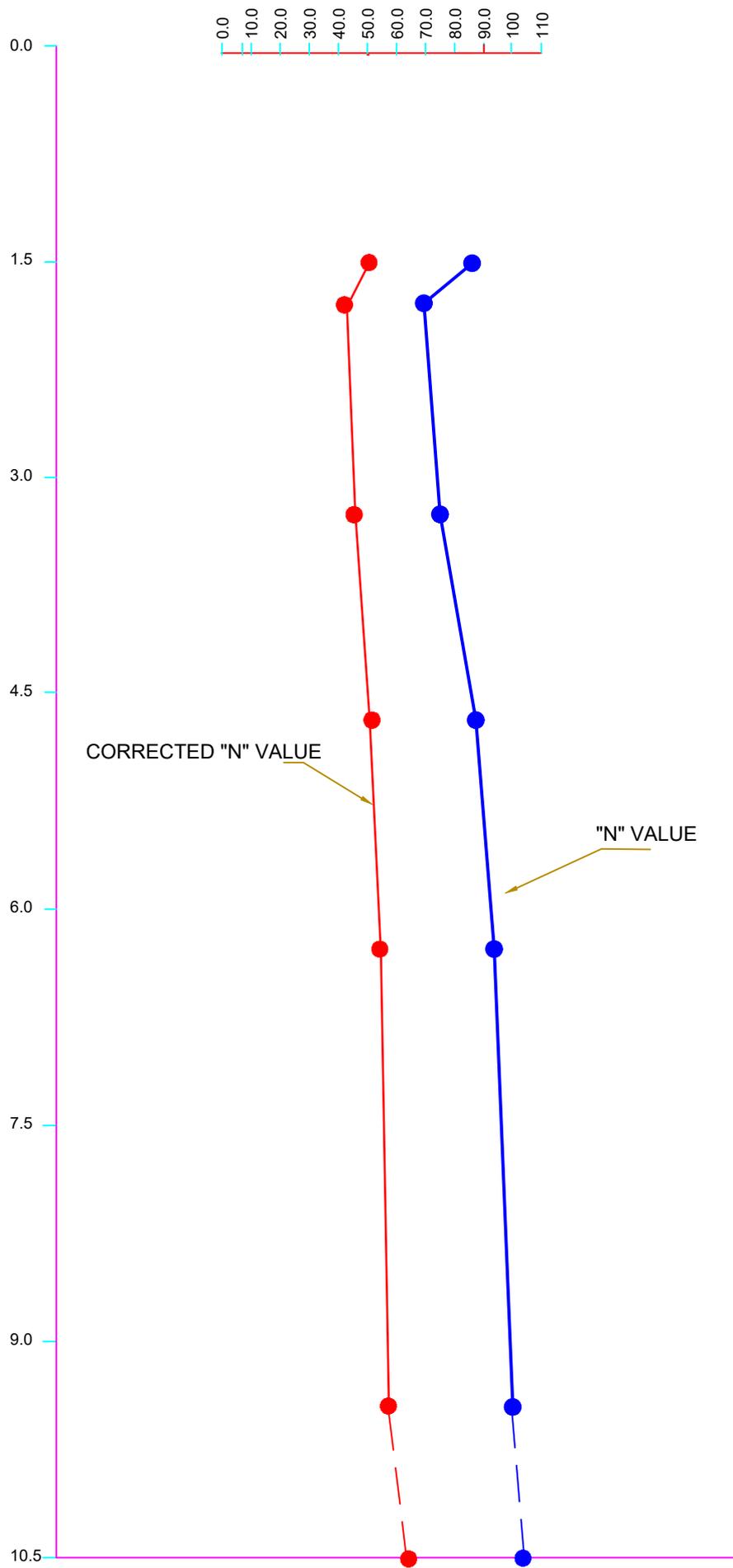
Test Name - SPT
Test Area - AVFCCL, Namrup
Co-ordinate - N-27°10'42", E-95°20'56"
Test ID - BH-14

Table 1: BH -14 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)	Remarks
		From	To	S	P	T				
				15	15	15				
02.01.26	1	0	0.5							DS-1
	2	1.5	1.95	19	38	48	86	50.5	75	SPT-1
	3	1.95	3.5	25	28	41	69	42	75	Fractured rock with gravel
	4	3.5	5	26	32	43	75	45	75	Fractured rock with gravel
	5	5	6.5	32	38	49	87	51	75	Fractured rock with gravel
	6	6.5	8	35	42	51	93	54	75	Fractured rock with gravel
03.01.26	7	8	9.5	36	44	55	99	57	75	Fractured rock with gravel
	8	9.5	11	100					75	Refusal as N>100 rock
	9	11	12.5							Rock
	10	12.5	15							rock



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-11

— "N" VALUE
— CORRECTED N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-14

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 20'56", N 27°10'42"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 02/01/2026 - 03/01/2026

GROUND EL. : 148.76 M
 COLLAR EL. : 148.21 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			OTHER NX HX AX			
0.5											19,38,48 N=86	75				N=50.5	
1.5				15%							25,28,41 N=69	75				N=42	
3.0											26,32,43 N=75	75				N=45	
4.5				20%							32,38,49 N=87	75				N=51	
6.0				20%				W			35,42,51 N=93	75				N=54	
7.5				40%							36,44,55 N=99	75				N=57	
9.0				40%								75					
10.5				40%								75					
11.0				40%								75					
12.0				20%								75				REFUSAL AT 11 M	
13.5				20%								75					
15.0				20%								75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

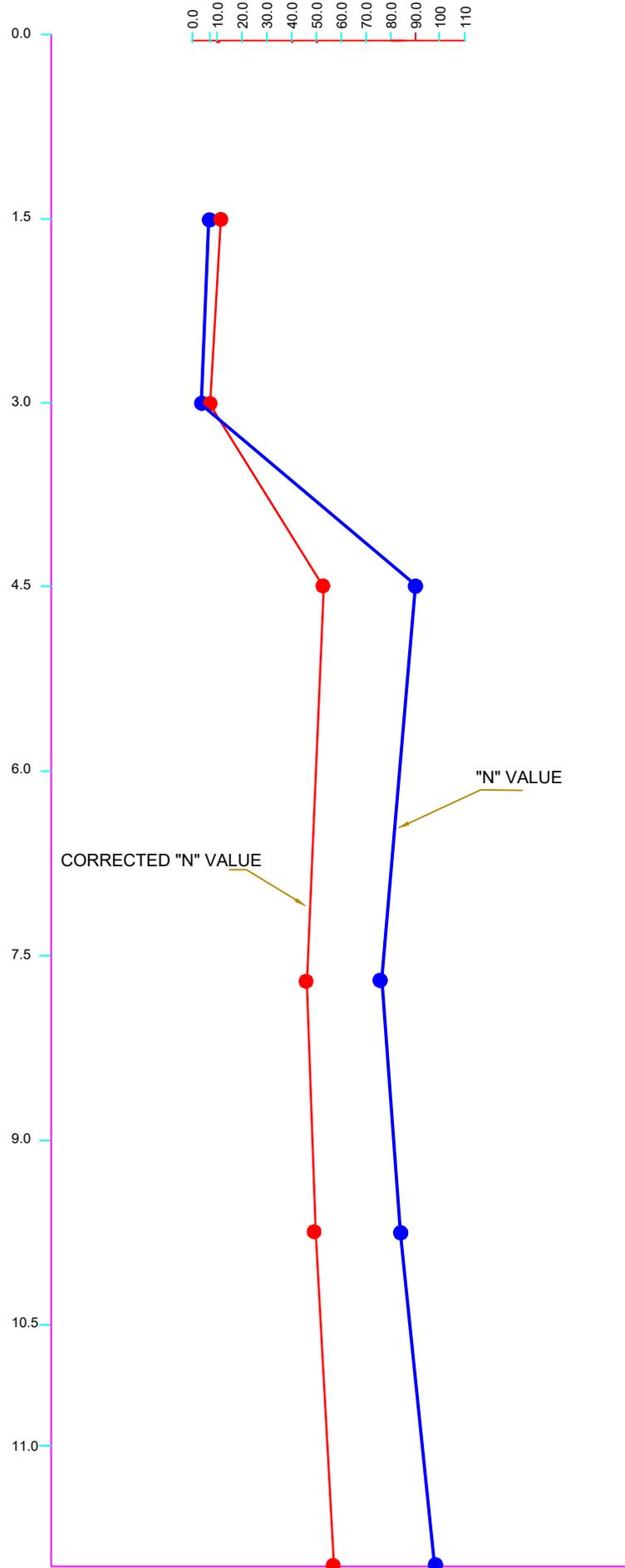
BH-15

Test Name - SPT
Test Area - AVFCCL, Namrup
Co-ordinate - N-27°10'38", E-95°20'54"
Test ID - BH-15

Table 1: BH -15 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)	Remarks
		From	To	S	P	T				
30.12.25	1	0	0.5						75	DS-1 Filling materials
	2	1.5	1.95	4	4	3	7	11	75	SPT-1
	3	3	3.45	2	3	3	6	10.5	75	SPT-2
	4	4.5	4.95	17	31	59	90	52.5	75	SPT-3
31.12.2025	5	4.95	6.5	-	-	-	-		75	No displacement as boulder is found in borehole
	6	6.5	8	-	-	-	-		75	do
	7	8	9.5	29	32	44	76	45.5	75	Fractured rock with gravel
	8	9.5	11	33	38	46	84	49.5	75	Fractured rock with gravel
	9	11	12.5	33	40	58	98	56.5	75	Fractured rock with gravel
	10	12	12.5	100	-	-	-		75	Refusal as N>100 rock
	11	12.5	15	-	-	-	-		75	rock

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-15

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 20'54" , N 27°10'38"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 30/12/2025 - 31/12/2025

GROUND EL. : 148.37 M
 COLLAR EL. : 148.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN PART	LOSS FILL			OTHER NX HX AX			
0.5	FILLING MATERIAL										4.4,3 N=7	75				N=11	
1.5				15%							2.3,3 N=6	75				N=10.5	
3.0											17,31.59 N=90	75				N=52.5	
4.5	NO DISPLACEMENT AS BOULDER IS FOUND IN BOREHOLE			20%					WL			75					
6.0	DO			20%							29,32.44 N=76	75				N=45.5	
7.5				40%							33,38.46 N=84	75				N=49.5	
9.0				40%							33,40.98 N=98	75				N=56.5	
10.5				20%								75					
12.0												75					
12.5												75				REFUSAL AT 12.5 M	
13.5												75					
15.0												75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

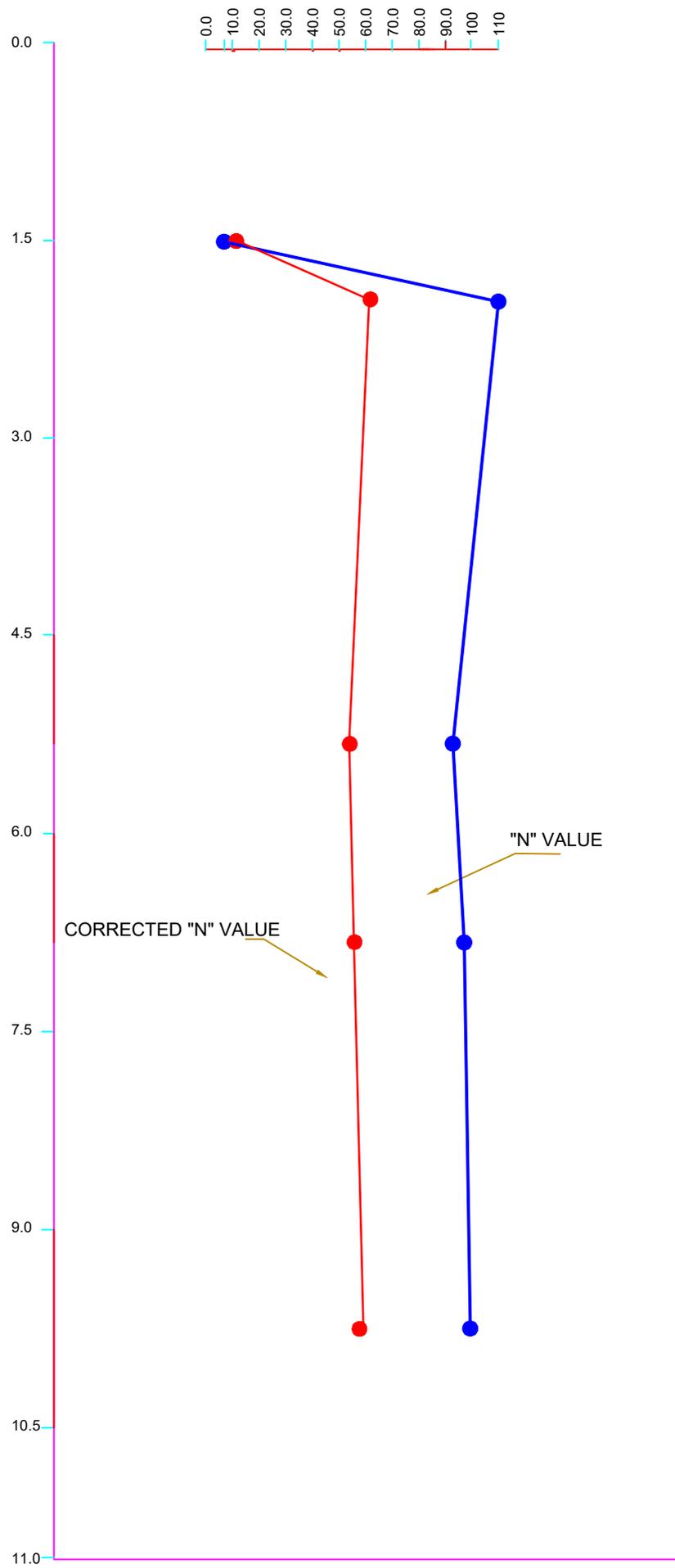
CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND
 CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-16

— "N" VALUE
— CORRECTED N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-16

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'03" , N 27°10'34"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 07/01/2026 - 08/01/2026

GROUND EL. : 147.56 M
 COLLAR EL. : 147.21 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 ELEVATION (M)	3 LITHOLOGY		4 WEATHERING RING (W)	5 CORE RECOVERY %	6 ROD	7 STRUCTURAL CONDITION			8 WATER LEVEL	9 WATER LOSS	10 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUENCY (J)					IN	PART	FILL	
0.5											2,3,4 N=7	75					N=11
1.5					15%						41,48,62 N=110	75					N=62.5
3.0											42,38,55 N=93	75					N=54
4.5					20%						42,39,58 N=97	75					N=56
6.0																	
7.5					20%												
9.0					40%						40,41,59 N=100	75					N=57.5
10.5					40%												
11.0																	
12.0																	REFUSAL AT 11 M
13.5					20%												
15.0																	

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-17

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'32", E-95°21'10"
 Test ID - BH-17

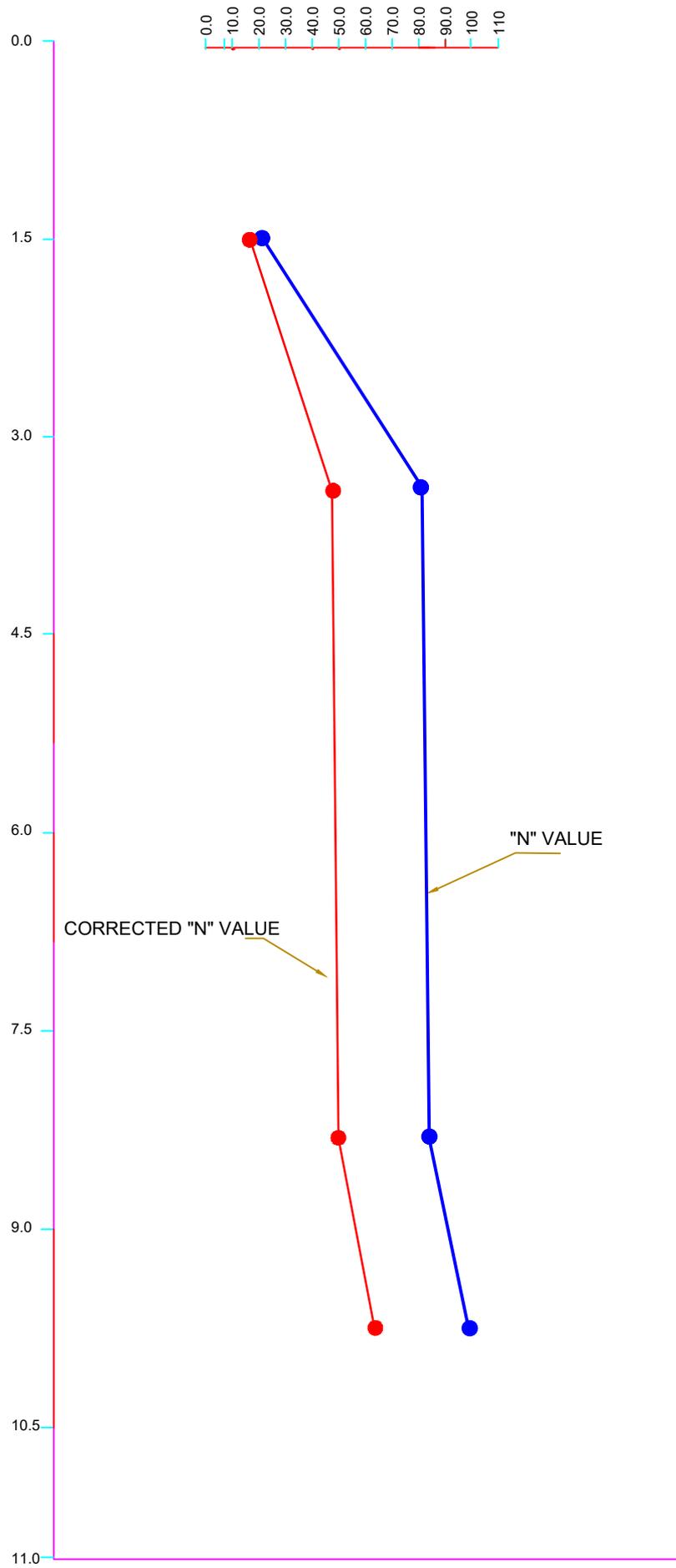
Table 1: BH -17 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)	Remarks
		From	To	15	15	15				
09.01.2026	1	0	0.5							DS-1 Filling material
	2	1.5	1.95	5	8	13	21	18	75	SPT-1 Medium dense brown sand
	3	3	3.45	29	38	43	81	48	75	SPT-2 Sand with coarse gravel
	4	3.45	5.0	40	41	56	97	56	75	
	5	5.0	6.5	42	-	-	-		75	No displacement as boulder is found in borehole
	6	6.5	8	44	-	-	-		75	-do-
	7	8	9.5	31	36	48	84	49.5	75	Fractured rock with gravel
10.01.26	8	9.5	11	33	45	54	99	57	75	Fractured rock with gravel
	9	11	12.5	100					75	Refusal as N>100 rock
	10	12.5	15							



11 Jan 2026 10:15:59 am
Dillghat Gaon No.2
Upper Assam Division
Assam

NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

SPT CURVE : N VALUE v/s DEPTH OF BH-17

— N" VALUE
— CORRECTED N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-17

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'10" , N 27°10'32"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 09/01/2026 - 10/01/2026

GROUND EL. : 146.33 M
 COLLAR EL. : 145.97 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS	TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION	
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUENCY (J)					IN	PART	LOSS		TEST
0.5		FILLING MATERIAL										5.8,13 N=21	75					N=18
1.5		MEDIUM DENCE BROWN SAND			15%							29,38,43 N=81	75					N=48
3.0		SAND WITH COARSE GRAVEL			20%							40,41,56 N=97	75					N=45
4.5													WL					N=51
6.0		NO DISPLACEMENT AS BOULDER IS FOUND IN BOREHOLE			20%							31,36,48 N=84	75					N=49.5
7.5		DO			40%							33,45,54 N=99	75					N=57
9.0		FRACTURED ROCK WITH GRAVEL			40%								75					
10.5													75					
12.0													75					
12.5		FRACTURED ROCK			20%								75					REFUSAL AT 12.5 M
13.5													75					
15.0													75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-18

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'36", E-95°21'22"
 Test ID - BH-18

Table 1: BH -18 SPT Chart

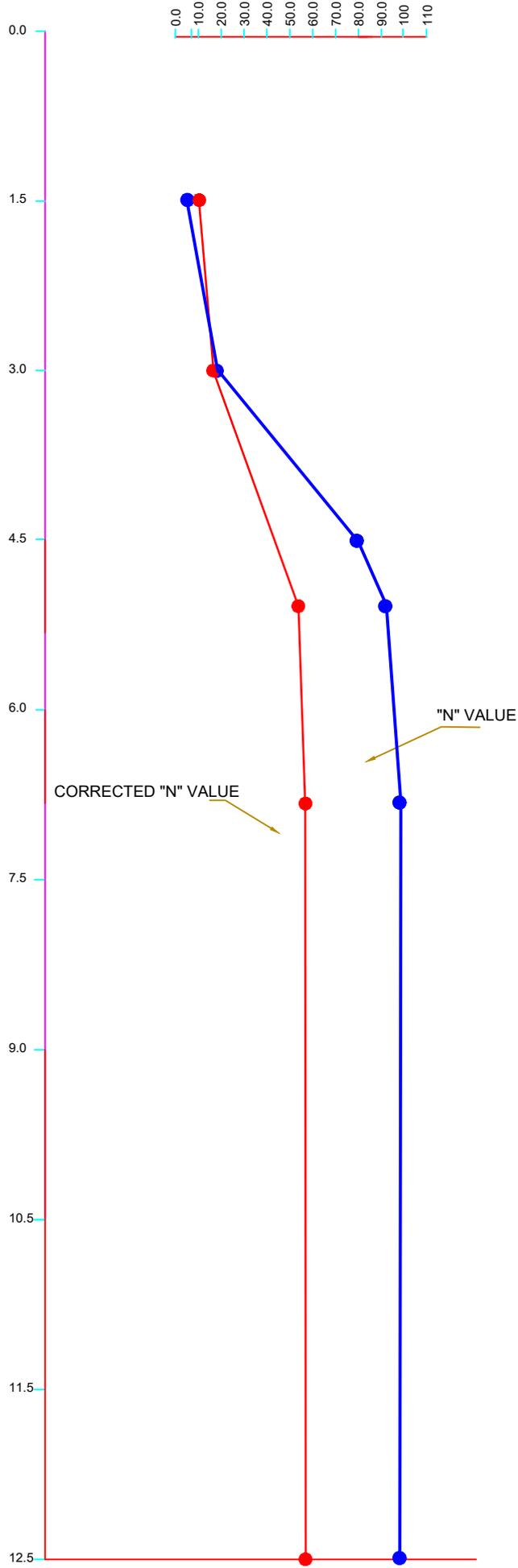
Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
24.01.26	1	0	0.5							DS-1	Brown sandy clay
	2	1.5	1.95	1	1	2	3	9	75	SPT-1	Brown sandy clay
		3	3.45	34	70	86	156	85.5	75	SPT-2	Brown sandy clay with course gravel

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Size of hole	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To										
29.01.26	3.45	4.5	1.05	50	NX		IMP	S/T	Greyish	Sand with coarse, cobble to boulder	Partial	26
	4.5	6	1.5	65	NX		IMP	S/T	Greyish	Sand with coarse, cobble to boulder	Full	14
	6	7.5	1.5	63	NX		IMP	S/T	Greyish	Sand with coarse, cobble to boulder	Full	13
	7.5	9	1.5	55	NX		IMP	S/T	Greyish	Sand grey clay with boulder	Full	17
	9	10.5	1.5	57	NX		IMP	S/T	Greyish	Sand grey clay with boulder	Full	16
30.01.26	10.5	12	1.5	51	NX		IMP	S/T	Greyish	Sand grey clay with boulder	Full	18
	12	13.5	1.5	61	NX		IMP	S/T	Greyish	Sand with boulder	Full	12
	13.5	15	1.5	57	NX		IMP	S/T	Greyish	Sand with boulder	Full	23

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
5,2,3,4,3,2		1	24.76	18.09		3.6	
3,3,2,2		2	9.33	6.67			
4,2,2		3	8.67	5.33			
4,2,3,2		4	11.33	7.33			
7,3,2		5	10.67	8			
4,3,2,2,3		6	12	9.33			
5,3,2		7	8	6.67			
3,5,4,3,2,2		8	15.33	12.67			



NO OF BLOWS, N VALUE



SPT CURVE : N VALUE v/s DEPTH OF BH-18

— N' VALUE
— CORRECTED N' VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-18

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 20'57", N 27°10'33"	GROUND EL. : 143.92 M	BIT TYPE : DIAMOND BIT
TOTAL DEPTH : 15 M	COLLAR EL. : 143.10 M	DRILL MACHINE : GEO MACHINE
DRILLING PERIOD : 29/01/2026 - 30/01/2026	INCLINATION : 90	NAME OF DRILLER : MD.NAIM
	BEARING :	NAME OF SUPERVISOR : SIYARAM MAHTO
	LOGGING DATE : 6/02/2026	LOGGED BY : DEEPAK KUMAR

DEPTH (M)	ELEVATION (M)	LITHOLOGY		WEATHERING RING (W)	CORE RECOVERY %	ROD	STRUCTURAL CONDITION			WATER LEVEL	WATER LOSS		TEST SECTION SPT	HOLE SIZE	CASING			SPECIAL OBSERVATION
		DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			OTHER	NX	HX	
0.5		BROWN SANDY SOIL																
1.5		BROWN SANDY CLAY			15%													
3.0		BROWN SANDY CLAY										1,1,2 N=3	75					N=9
3.45		BROWN SANDY SOIL WITH COARSE GRAVELS										34,70,86 N=156	75					N=85.5
4.5		FRACTURED ROCK			20%				WL				75					REFUSAL AT 3.45 M
6.0		FRACTURED ROCK											75					
7.5		FRACTURED ROCK			20%								75					
9.0		FRACTURED ROCK			40%								75					
10.5		FRACTURED ROCK			40%								75					
12.0		FRACTURED ROCK											75					
13.5		FRACTURED ROCK			20%								75					
15.0		FRACTURED ROCK											75					

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-19

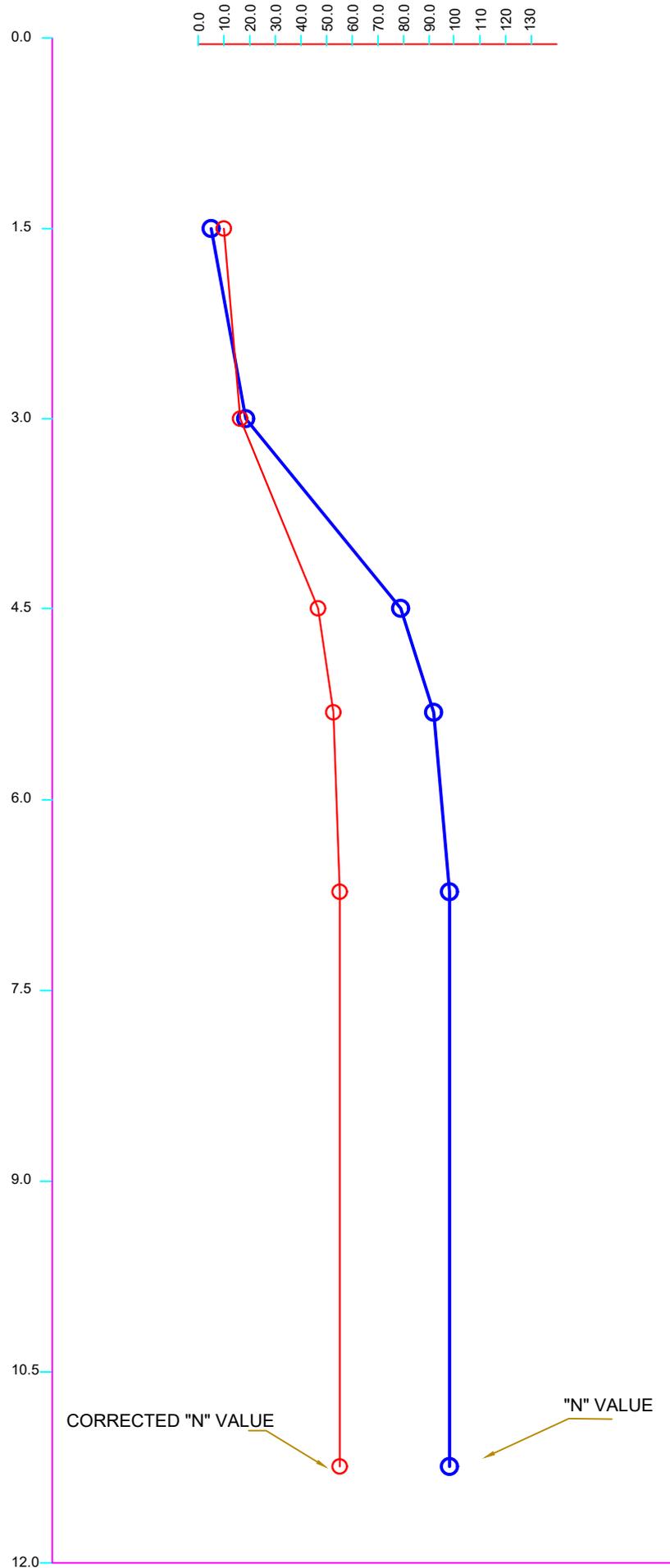
Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'31", E-95°21'06"
 Test ID - BH-19

Table 1: BH -19 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)	Remarks
		From	To	15	15	15				
10.01.26	1	0	0.5						75	DS-1 Brown Sandy soil
	2	1.5	1.95	2	2	3	5	10	75	SPT-1 Brown Sandy soil
	3	3	3.45	3	7	11	18	16.5	75	SPT-2 Brown Sandy soil
	4	4.5	4.95	17	28	51	79	47	75	SPT-3 Sand with coarse gravel
11.01.26	5	4.95	6.5	21	38	54	92	53.5	75	Fractured rock with gravel
	6	6.5	8	31	40	58	98	56.5	75	Fractured rock with gravel
	7	8	9.5	40	-	-	-		75	No displacement as boulder is found in borehole
	8	9.5	11	41	-	-	-		75	-do-
	9	11	12.5	38	43	55	98	56.5	75	Fractured rock with gravel
	10	12.5	15	100						Refusal as N > 100 rock



NO OF BLOWS, N VALUE



CORRECTED "N" VALUE

"N" VALUE

GEOLOGICAL LOG OF DRILL HOLE BH-19

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 21'06" , N 27°10'31"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 10/01/2026 - 11/01/2026

GROUND EL. : 144.30 M
 COLLAR EL. : 144.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUENCY (J)		IN	PART FILL			TO	NX	HX	
0.5	BROWN SANDY SOIL											2.2,3 N=5	75				N=10
1.5	BROWN SANDY SOIL			15%								3.7,11 N=18	75				N=16.5
3.0	BROWN SANDY SOIL											17.28,51 N=79	75				
4.5	SAND WITH COARSE GRAVEL			20%								21.38,54 N=92	75				N=53.5
6.0	FRACTURED ROCK WITH GRAVEL			20%					WL			31.40,58 N=98	75				N=56.5
7.5	FRACTURED ROCK WITH GRAVEL			20%									75				
9.0	NO DISPLACEMENT AS BOULDER IS FOUND IN BOREHOLE			40%									75				
10.5				40%									75				
12.0	FRACTURED ROCK WITH GRAVEL											38.43,55 N=98	75				N=56.5
12.5	FRACTURED ROCK			20%									75				REFUSAL AT 12.5 M
13.5													75				
15.0													75				

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders,mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

BH-20

Test Name - SPT
 Test Area - AVFCCL, Namrup
 Co-ordinate - N-27°10'29", E-95°20'57"
 Test ID - BH-20

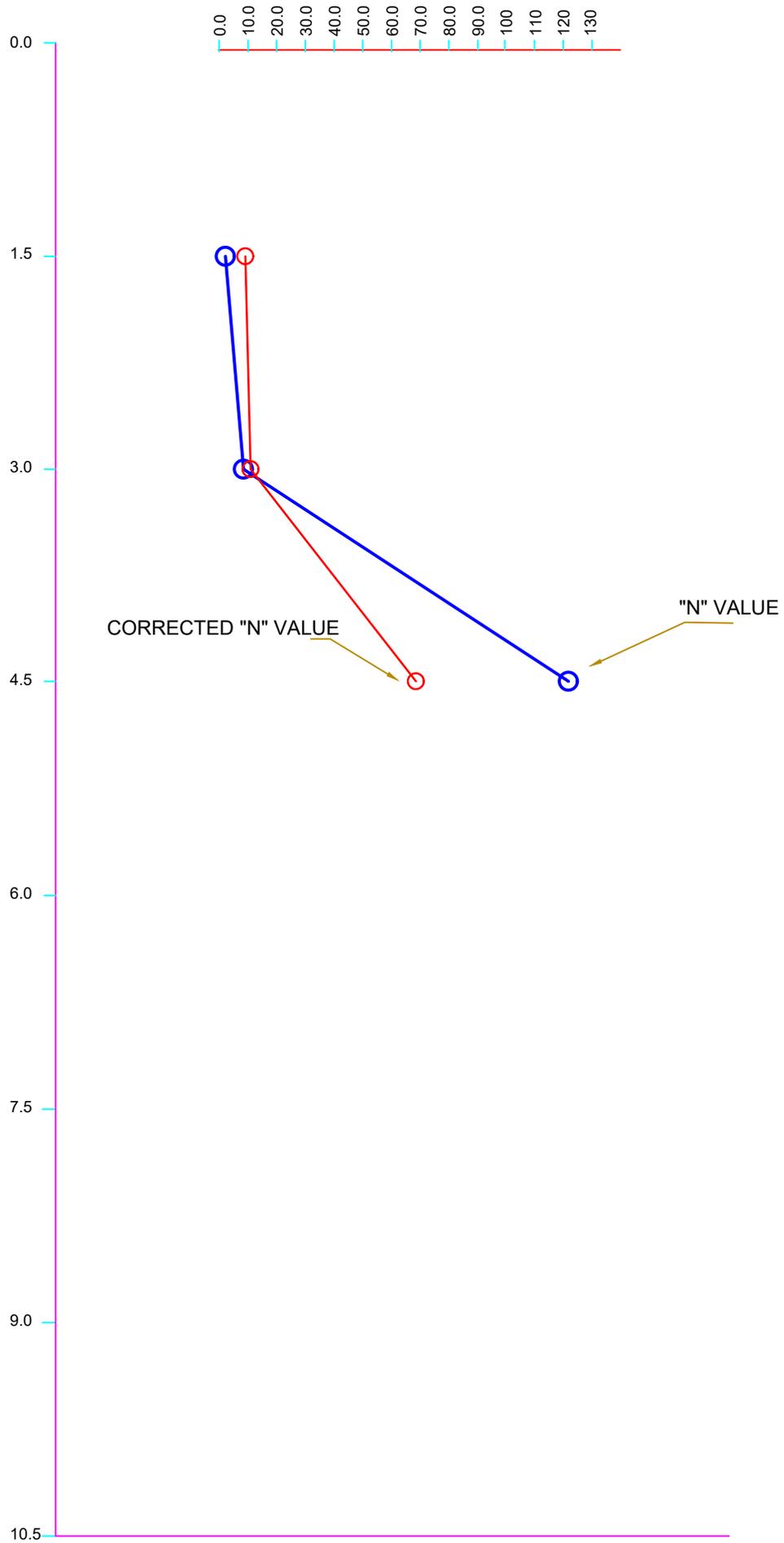
Table 1: BH -20 SPT Chart

Date	Sl. No.	Test Section (Depth)		Blows			N Value	N" Corrected	Height of Jar Block (cm)		Remarks
		From	To								
30.01.26	1	0	0.5							DS-1	Brown sandy soil
	2	1.5	1.95	1	1	2	3	9	75	SPT-1	Brown sandy clay
		3	3.45	2	2	6	8	11.5	75	SPT-2	Brown sandy clay
		4.5	4.95	35	54	68	122	68.5	75	SPT-3	Brown clay with coarse gravel

Date	Drilling Run (MTR)		Total run (MTR)	Total time (Mint)	Use of casing	Size of hole	Use of Bit	Use of barrel	Color of return water	Sample type	Water loss	Total core recovery
	From	To										
31.01.26	4.95	6	1.05	45	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Partial	13
	6	7.5	1.5	56	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Full	11
	7.5	9	1.5	60	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Full	17
	9	10.5	1.5	55	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Full	15
	10.5	12	1.5	62	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Full	14
	12	13.5	1.5	51	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Full	19
	13.5	15	1.5	55	NX		IMP	S/T	Greyish	Sand with cobble to boulder	Full	15

Size of Core Pieces (cm)	RQD	Serial Number of Core Pieces	Core Recovery percentage			Ground water label depth	Remarks
			TCR %	SCR %	RQD %		
6,2,3		1	12.38	10.47			
4,2,3		2	7.33	6			
6,2,2,3		3	11.33	8.67			
8,2		4	10	6.67			
4,3,3		5	9.33	6.67			
6,3,2,3		6	12.67	9.33			
3,4,2,2		7	10	7.33			

NO OF BLOWS, N VALUE



GEOLOGICAL LOG OF DRILL HOLE BH-20

SHEET 1/1

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED AMMONIA-UREA FERTILIZER AND CHEMICAL COMPANY LTD.

COORDINATE : E 95° 20'57", N 27°10'29"
 TOTAL DEPTH : 15 M
 DRILLING PERIOD : 30/01/2026 - 31/01/2026

GROUND EL. : 146.39 M
 COLLAR EL. : 146.00 M
 INCLINATION : 90
 BEARING :
 LOGGING DATE : 6/02/2026

BIT TYPE : DIAMOND BIT
 DRILL MACHINE : GEO MACHINE
 NAME OF DRILLER : MD.NAIM
 NAME OF SUPERVISOR : SIYARAM MAHTO
 LOGGED BY : DEEPAK KUMAR

1 DEPTH (M)	2 LITHOLOGY		3 WEATHERING RING (W)	4 CORE RECOVERY %	5 ROD	6 STRUCTURAL CONDITION			7 WATER LEVEL	8 WATER LOSS		9 TEST SECTION SPT	11 HOLE SIZE	13 CASING			14 SPECIAL OBSERVATION
	DISCRIPTION	LOG				LOG	DISCRIPTION	JOINT FREQUEN CY (J)		IN	PART FILL			TO	NX	HX	
0.5	BROWN SANDY SOIL																
1.5	BROWN SANDY CLAY			15%								1,1,2 N=3	75				N=9
3.0	BROWN SANDY CLAY											2,2,6 N=8	75				N=11.5
4.5	BROWN CLAY WITH COARSE GRAVELS			20%				WL				35,34,68 N=122	75				N=68.5
4.95	FRACTURED ROCK												75				REFUSAL AT 4.95 M
6.0	FRACTURED ROCK			20%									75				
7.5	FRACTURED ROCK			40%									75				
9.0	FRACTURED ROCK			40%									75				
10.5	FRACTURED ROCK			40%									75				
12.0	FRACTURED ROCK			20%									75				
13.5	FRACTURED ROCK												75				
15.0	FRACTURED ROCK												75				

INDEX

	SILTY SOIL WITH GRAVEL		FRACTURED ROCK
	SILTY SAND WITH GRAVEL		
	FRACTURED ROCK WITH GRAVEL & SAND THIN LAYER		

CONCLUSION :

- The borehole data revealed compacted overburden material from 0.0 to 3 m depth and semi compacted boulders, mixed with pebbles & sand material from 3.5 to 12 m depth & fractured rock up to 15m.
- Water table depth is 6.5 m
- There is heavy water loss during drilling

CLIENT : PROJECT & DEVELOPMENT INDIA LTD.

LOGGED BY : DEEPAK KUMAR

CHECKED BY : G.C.S GAUR

PROJECT : ASSAM VALLEY FERTILIZER AND CHEMICAL COMPNY LTD.

VERIFIED BY : SONAM JOSHI

APPROVED BY : G.C.S GAUR

Rock Drilling

GEO drilling through rock formation was performed using heavy-duty, hydraulic skid-mounted rotary drill rig.

Drilling and sampling of the rock was performed using an NX size tube core barrel. A 32-carat diamond impregnated bit was used to drill through rock strata/refusal. The bit was attached to the end of a core barrel, which is connected to the machine by a string of NW drill rods and rotated by the drilling machine.

Water was circulated through the drill rods to the bottom of the hole. The water serves the purpose of lubrication, cooling and protection of the diamond drill bit in addition to flushing the cuttings out of the hole. A reciprocating pump was used to circulate the water. While drilling through soft rock that is likely to collapse, NX size casing was installed. The casing with a diamond shoe bit was used to assist the casing to advance.

The percent core recovery and Rock Quality Designation (RQD) was measured for each core run. The percent core recovery is defined as the percent ratio of the cumulative length of core sample recovered to the total length of the core run. The Rock Quality Designation (RQD) is defined as the ratio of the cumulative length of core pieces 10 cm or longer to the total length of the core run, expressed as percentage. The Rock mass Rating (RMR), an engineering parameter that assists in assessing the rock quality and behavior is also presented on the individual rock profiles.

Details of rock samples collected and their respective core recovery / RQD values are presented on the rock profiles at various depths. The color of return water and the extent of water loss while drilling the borehole recorded on the boring logs may be used for an assessment of the nature of rock, water-tightness of joints and possible presence of interconnected channels / cavities.

Groundwater

Groundwater level was measured in the boreholes after drilling and sampling was completed.

The measured water levels are recorded on the individual soil/rock profiles which is between 6to7m.



GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-01

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.19	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	68.1	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	101.02	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
2. The result listed refer only to the tested samples and applicable parameters endorsement or product is neither inferred nor implied.
3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
5. This report is not reproduced wholly or in part and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-02

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	6.86	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	53.3	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	110.01	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
2. The result listed refer only to the tested samples and applicable parameters endorsement or product is neither inferred nor implied.
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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-03

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.85	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	65.6	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	113.04	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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4. Samples will be destroyed after 30 days from the date of issue of test report.
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H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-04

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.63	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	71.7	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	149.01	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-05

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	6.88	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	59.3	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	121.33	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-06

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.89	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	77.2	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	160.15	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-07

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.01	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	85.3	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	154.10	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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TEST REPORT

Description of Sample: Drinking Water BH No-08

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	6.91	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	66.14	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	101.11	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-09

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.55	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	81.20	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	103.01	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-10

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.23	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	69.10	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	149.01	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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TEST REPORT

Description of Sample: Drinking Water BH No-11

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.54	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	73.06	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	133.31	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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TEST REPORT

Description of Sample: Drinking Water BH No-12

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.29	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	75.04	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	149.06	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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TEST REPORT

Description of Sample: Drinking Water BH No-13

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.76	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	66.01	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	133.33	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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TEST REPORT

Description of Sample: Drinking Water BH No-14

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.11	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	59.04	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	138.35	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-15

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/01

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Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.39	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	66.11	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	118.04	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-16

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.26	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	72.02	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	124.02	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-17

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	6.89	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	67.49	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	132.12	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-18

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.42	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	71.82	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	142.18	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-19

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	7.92	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	78.22	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	136.35	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Drinking Water BH No-20

Sample ID: 100226/01

Sample Quantity: 1 Ltr.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-12/02/2026

Date of Receipt: 10/02/2026

Requirement as per IS:14543-2004 (Drinking Water)

S. No.	Characteristics	Test-Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	pH Value	6.98	6.5-8.5	No Relaxation	IS-3025(P-11)-1983
2	Chloride as Cl, mg/l	81.02	200 Max	1000	IS-3025(P-32)-1988
3	Sulphate as SO ₄ , mg/l	126.52	200 Max	400	IS-3025(P-24)-1986

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Static & Cyclic Plate Load Tests

Plate load tests were performed at the site at the locations as given by the client at the specified depths. The test procedure was in general accordance with IS: 1888-1982.

Dead load was used to provide the reaction. The plate was loaded by pushing up against the anchored ISMB using a hydraulic jack. Four dial gauges measured the plate settlement with reference to a stable reference bar.

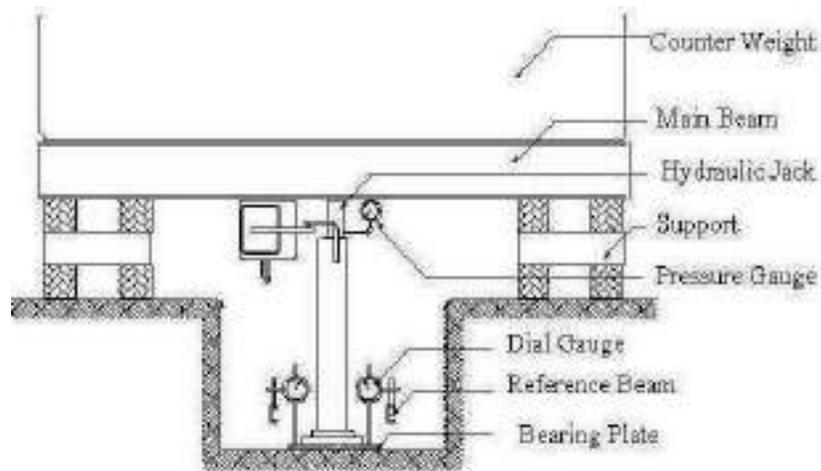
The load was applied in small increments upto a maximum loading intensity of 8 kg/cm² or 40 mm settlement of the plate, whichever occurs first. Each load was held until the time rate of settlement became negligible (less than 0.02 mm per minute) or until the total settlement exceeded 40 mm. The plate was then unloaded and the rebound was recorded.

Apparatus

1. Test plate of size 600mm x 600 mm x 25 mm
2. Hydraulic jack with Hydraulic Pump
3. Load gauge
4. 2 no of dial gauges (with sensitivity of 0.01 mm and a travel of 50 mm)
5. Dial gauge supporting channels
6. Dial gauge stands
7. Magnetic bases for dial gauges
8. Loading Platform
9. Spirit level

Test Setup

Figure show how the schematic diagram of test is set up. Basically, it contains a plate, loading column, jack, counter weight, pressure gauge and settlement gauge.



Procedure

1. A pit was dug at site where the foundation was proposed to be laid (Depth - 2.00M).
2. Position the test plate was centrally at the base of the pit. Ensured that the ground surface below the test plate was perfectly horizontal and level so that no stress concentration takes place below the plate during loading. For slightly uneven surface, a thin layer of sand was spread underneath the test plate.
3. Hydraulic jack over the test plate was positioned so that when hydraulic pressure is built up the jack pushes against the loaded Platform (Kerledge) by means of Sand bags. Loading column between the test plate and the jack were placed to ensure the jack reach the Kerledge's loading plate.
4. Four dial gauges were placed diagonally to record its settlement of the plate. The dial gauges were supported carefully over a stable base which does not settle with the plate. This was achieved by placing two cross beams at ground level over which the dial gauges are supported with the help of magnetic bases. The settlement of the plate was transmitted to the dial gauges through dial gauge stands.

5. The dial gauges were positioned such that the plunger of the dial gauges were at its beginning of rebound (i.e. the plunger is initially pushed up) so that it will get released as the plate settles and the reading changes and the difference in reading provided the settlement of the plate.
6. A seating load of 70g/cm^2 was applied which is released before the actual loading is started.
7. Initial readings of the dial gauges were noted down
8. Settlement of the plate was to be observed from the dial gauge readings. Settlement should be observed for each increment of load after an interval of 1, 2.25, 4, 6.25, 9, 16 and 25 minutes or until the rate of settlement becomes to the nearest 0.02 mm per hour. Readings were recorded in the tabular form in observation sheet.
9. After completing the recording of settlement readings under a load, the next load increment is applied and the dial gauges readings were noted under the new load.

Scope of Work

Preparation of plate load test report for determining of safe bearing capacity by way of plate load test at AVFCCL, Namrup Assam.

One number of plate load test is conducted at location namely PLT-1 for determining the safe bearing capacity of soil for the proposed construction, in accordance with the standard procedures as per Is: 1888-1982 RA: 2002.

Plate Load Test - 01

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	PLT-1	Lat- 27.1756 Long- 95.357529

Observations

Plate Load Tests on 600 mm X 600 mm X 25 mm plate at specified depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m²)	Gross settlement (mm)
20	55.55	2.11
40	111.11	7.27
60	166.66	16.05
75	208.33	25.78

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity. Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity : = 205.00KN/Sq.mtr.

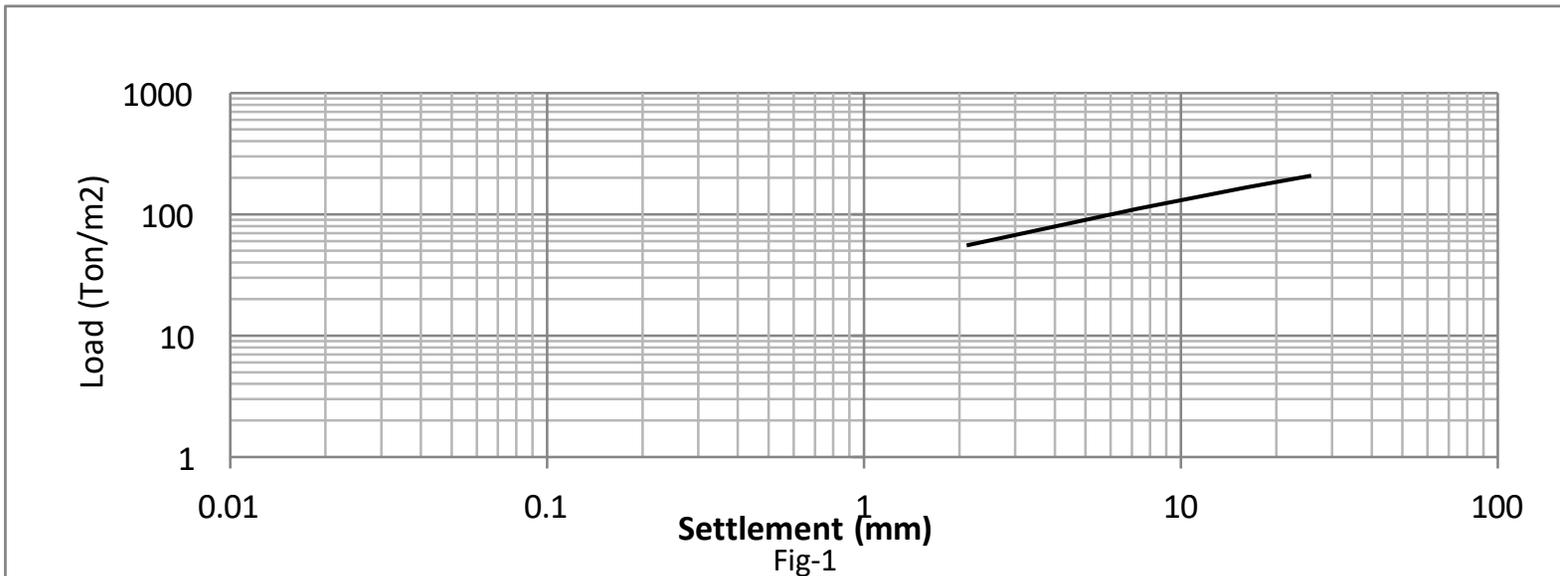
F = Factor of safety = 2.5

Result: $205/2.5 = 82.00$ KN/sqr.Metre

Table: Field Observation

DATE	TIME	LOAD APPLIED	DIAL GAUGE READING		MEAN	REMARKS
	(Min.)		(mm)		(mm)	
			A	B		
03-02-26	11.10	0.00	0.00	0.00	0.00	
	11.10	20KN	2.39	1.80	2.10	
	2.25	55.55KN/m2	2.39	1.80	2.10	
	4.00		2.39	1.80	2.10	
	6.25		2.39	1.80	2.10	
	9.00		2.39	1.81	2.10	
	16.00		2.39	1.81	2.10	
	25.00		2.39	1.81	2.10	
	60.00		2.40	1.82	2.11	
	1.00	40KN	7.48	6.99	7.24	
	2.25	111.11KN/m2	7.48	7.00	7.24	
	4.00		7.48	7.00	7.24	
	6.25		7.48	7.00	7.24	
	9.00		7.49	7.00	7.25	
	16.00		7.49	7.00	7.25	
	25.00		7.51	7.02	7.27	
	60.00		7.51	7.02	7.27	
	1.00	60KN	15.76	16.30	16.03	
	2.25	166.66KN/m2	15.77	16.30	16.04	
	4.00		15.77	16.31	16.04	
	6.25		15.77	16.32	16.05	
	9.00		15.78	16.32	16.05	
	16.00		15.78	16.32	16.05	
	25.00		15.78	16.32	16.05	
	60.00		15.78	16.32	16.05	
	1.00	75KN	24.42	27.10	25.76	
	2.25	208.33KN/m2	24.43	27.11	25.77	
	4.00		24.43	27.11	25.77	
	6.25		24.43	27.11	25.77	
	9.00		24.43	27.11	25.77	
	16.00		24.43	27.12	25.78	
	25.00		24.44	27.12	25.78	
	60.00		24.44	7.12	15.78	

Load settlement curve



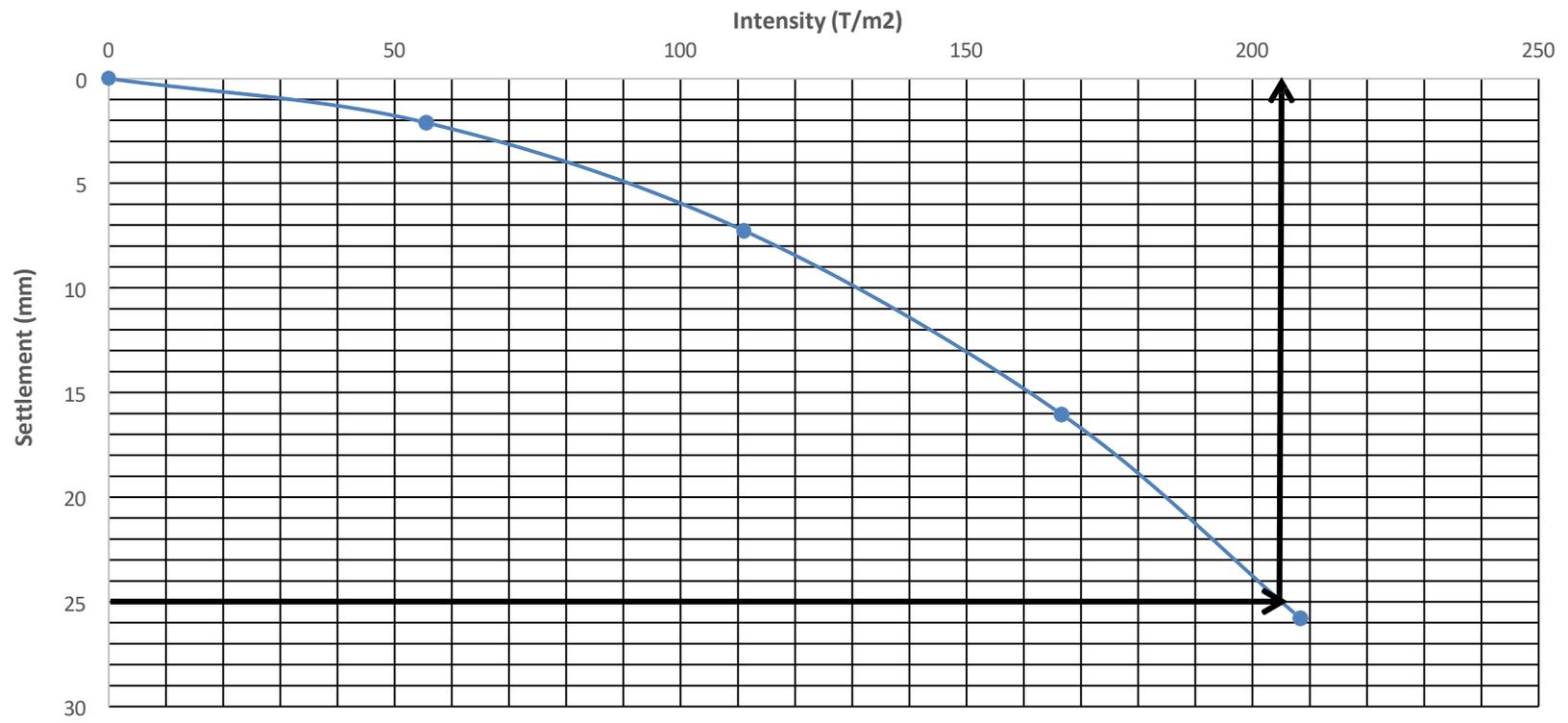


Fig-2

Plate Load Test - 02

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	PLT-2	Latitude : 27.17612, Longitude : 95.352962

Observations

Plate Load Tests on 300 mm X 300 mm X 25 mm plate at 2.0m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
10.00	111.11	7.41
20.00	222.22	11.65
30.00	333.33	18.32
40.00	444.44	27.60

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- 25mm settlement of Plate
- Yield point
- Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 260.00KN/Sq.mtr.

F = Factor of safety = 2.5

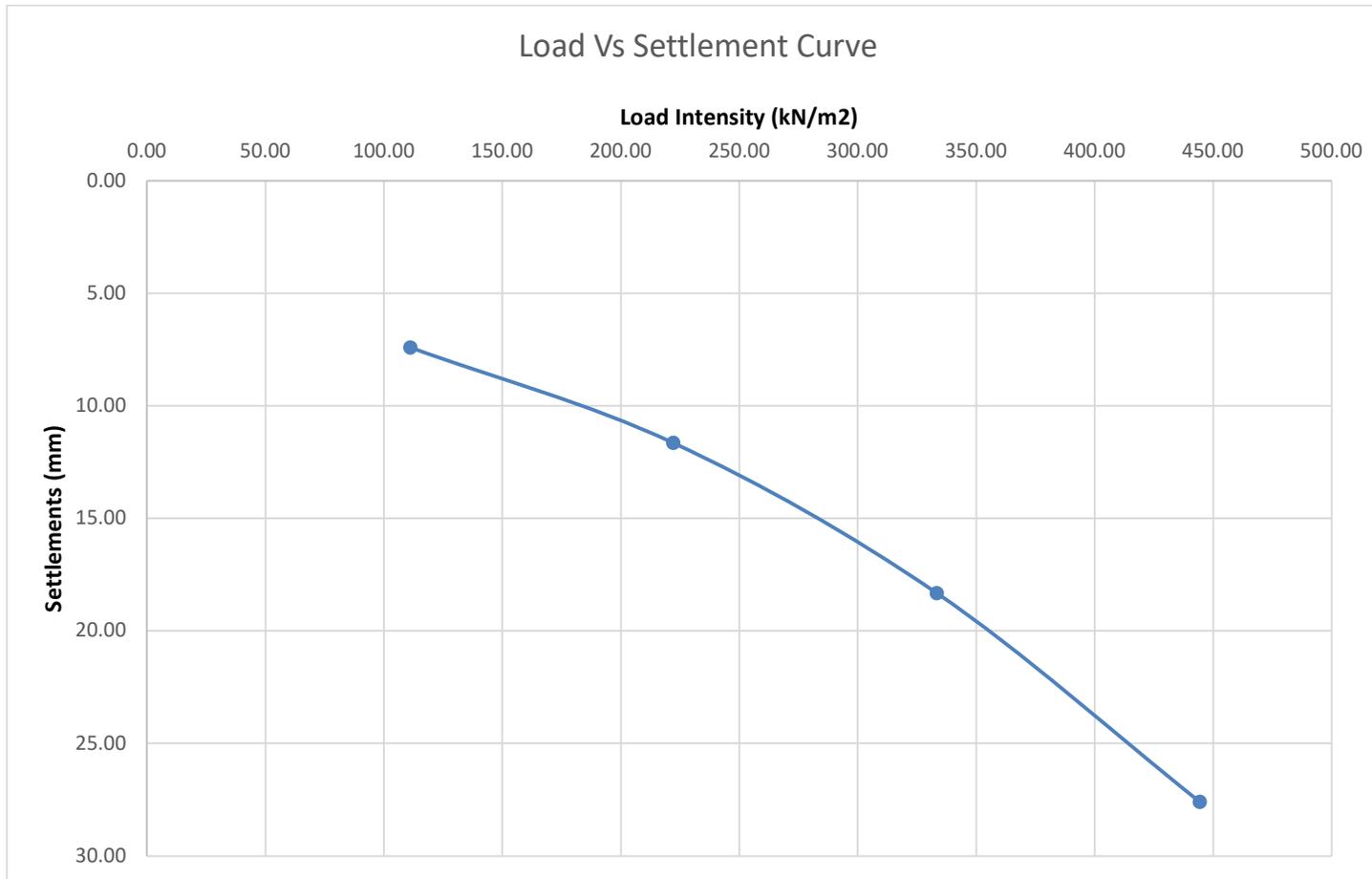
Result: 260/2.5 = 104.00 KN/sqr.Metre

Table: Field Observation

Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
01.02.2026	10.00	0 KN	0.00	0.00	0.00	
	1.00	10.00 KN	8.29	6.47	7.38	
	2.25		8.29	6.47	7.38	
	4.00		8.29	6.47	7.38	
	6.25		8.30	6.48	7.39	
	9.00		8.30	6.48	7.39	
	16.00		8.30	6.48	7.39	
	25.00		8.31	6.48	7.40	
	60.00		8.32	6.49	7.41	
	1.00	20.00 KN	12.20	11.00	11.60	
	2.25		12.21	11.02	11.62	
	4.00		12.21	11.02	11.62	
	6.25		12.22	11.03	11.63	
	9.00		12.23	11.03	11.63	
	16.00		12.23	11.04	11.64	
	25.00		12.24	11.05	11.65	
	60.00		12.25	11.05	11.65	
	1.00	30.00 KN	18.89	17.65	18.27	
	2.25		18.90	17.66	18.28	
	4.00		18.90	17.67	18.29	
	6.25		18.91	17.67	18.29	

	9.00		18.92	17.68	18.30	
	16.00		18.93	17.69	18.31	
	25.00		18.93	17.69	18.31	
	60.00		18.94	17.69	18.32	
	1.00	40.00 KN	27.60	27.58	27.59	
	2.25		27.60	27.58	27.59	
	4.00		27.60	27.59	27.60	
	6.25		27.60	27.59	27.60	
	9.00		27.60	27.59	27.60	
	16.00		27.60	27.59	27.60	
	25.00		27.60	27.59	27.60	
	60.00		27.60	27.59	27.60	

Load settlement curve



Load Vs Settlement Curve

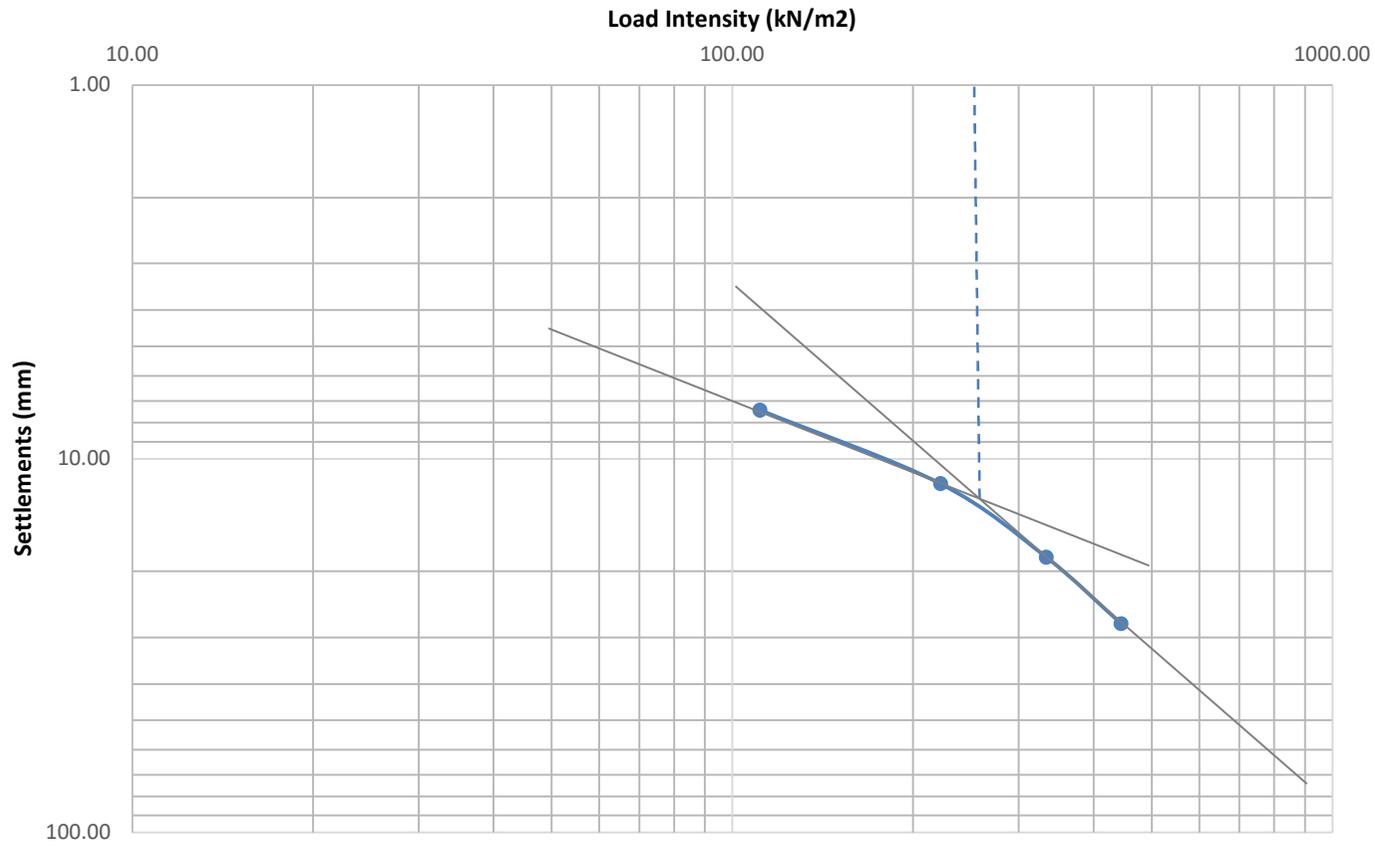


Plate Load Test -03

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	PLT-3	Latitude : 27.177311, Longitude : 95.348425

Observations

Plate Load Tests on 300 mm X 300 mm X 25 mm plate at 2.0m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
10.00	111.11	7.70
20.00	222.22	14.38
30.00	333.33	20.75
45.00	500.00	27.19

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 320.00KN/Sq.mtr.

F = Factor of safety = 2.5

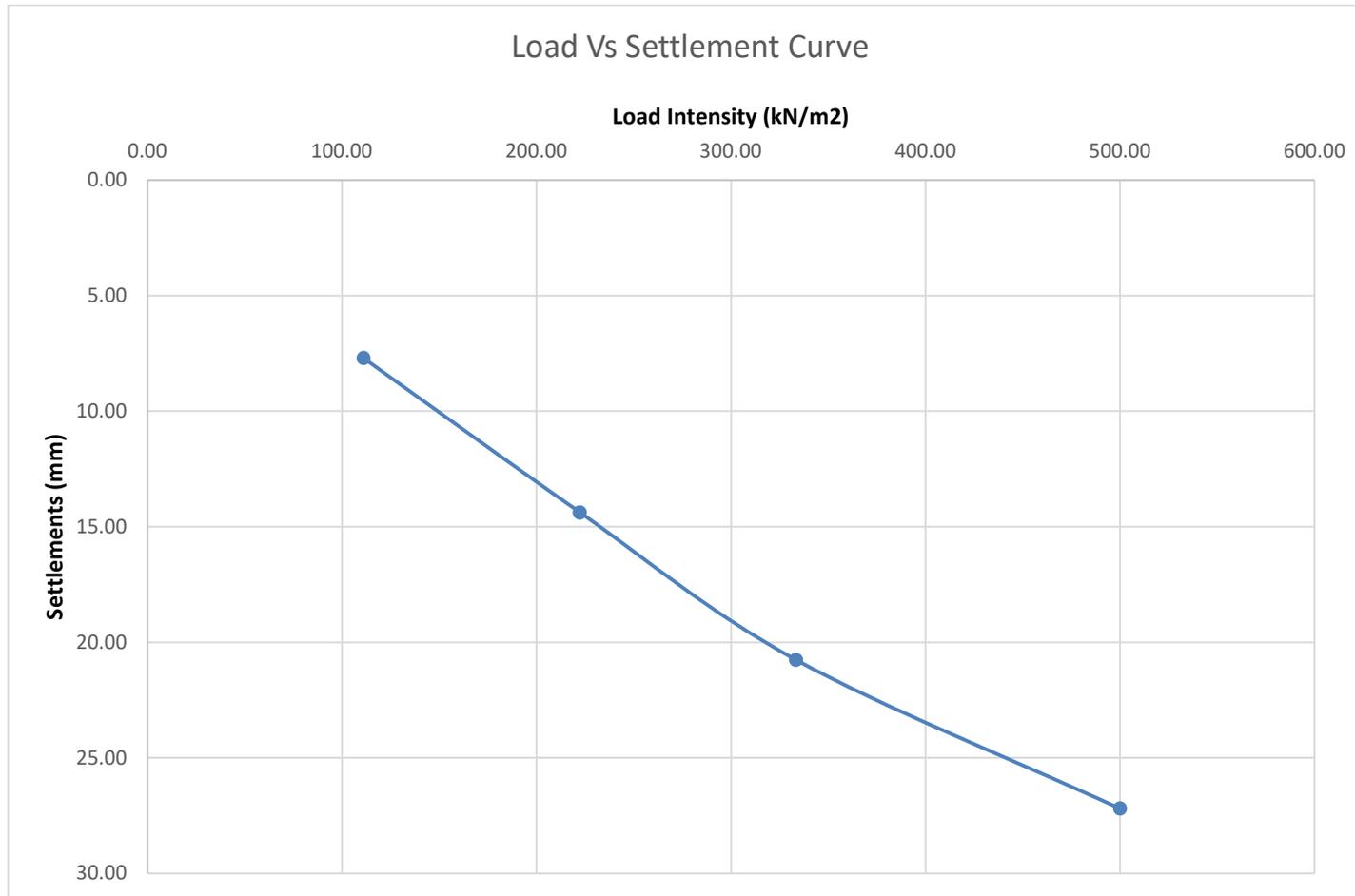
Result: $320/2.5 = 128.00$ KN/sqr.Metre

Table: Field Observation

Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
01.02.2026	5.20	0 KN	0.00	0.00	0.00	
	1.00	10.00 KN	7.40	7.91	7.66	
	2.25		7.40	7.92	7.66	
	4.00		7.41	7.93	7.67	
	6.25		7.42	7.93	7.68	
	9.00		7.42	7.94	7.68	
	16.00		7.43	7.94	7.69	
	25.00		7.44	7.94	7.69	
	60.00		7.44	7.95	7.70	
	1.00	20.00 KN	13.68	15.00	14.34	
	2.25		13.69	15.01	14.35	
	4.00		13.70	15.01	14.36	
	6.25		13.70	15.02	14.36	
	9.00		13.70	15.03	14.37	
	16.00		13.71	15.03	14.37	
	25.00		13.71	15.04	14.38	
	60.00		13.72	15.04	14.38	
	1.00	30.00 KN	20.16	21.27	20.72	
	2.25		20.17	21.28	20.73	
	4.00		20.18	21.28	20.73	
	6.25		20.18	21.29	20.74	
	9.00		20.19	21.30	20.75	

	16.00		20.19	21.30	20.75	
	25.00		20.19	21.31	20.75	
	60.00		20.19	21.31	20.75	
	1.00	45.00 KN	26.80	27.49	27.15	
	2.25		26.81	27.50	27.16	
	4.00		26.82	27.51	27.17	
	6.25		26.82	27.51	27.17	
	9.00		26.83	27.52	27.18	
	16.00		26.83	27.52	27.18	
	25.00		26.84	27.53	27.19	
	60.00		26.84	27.53	27.19	

Load settlement curve



Load Vs Settlement Curve

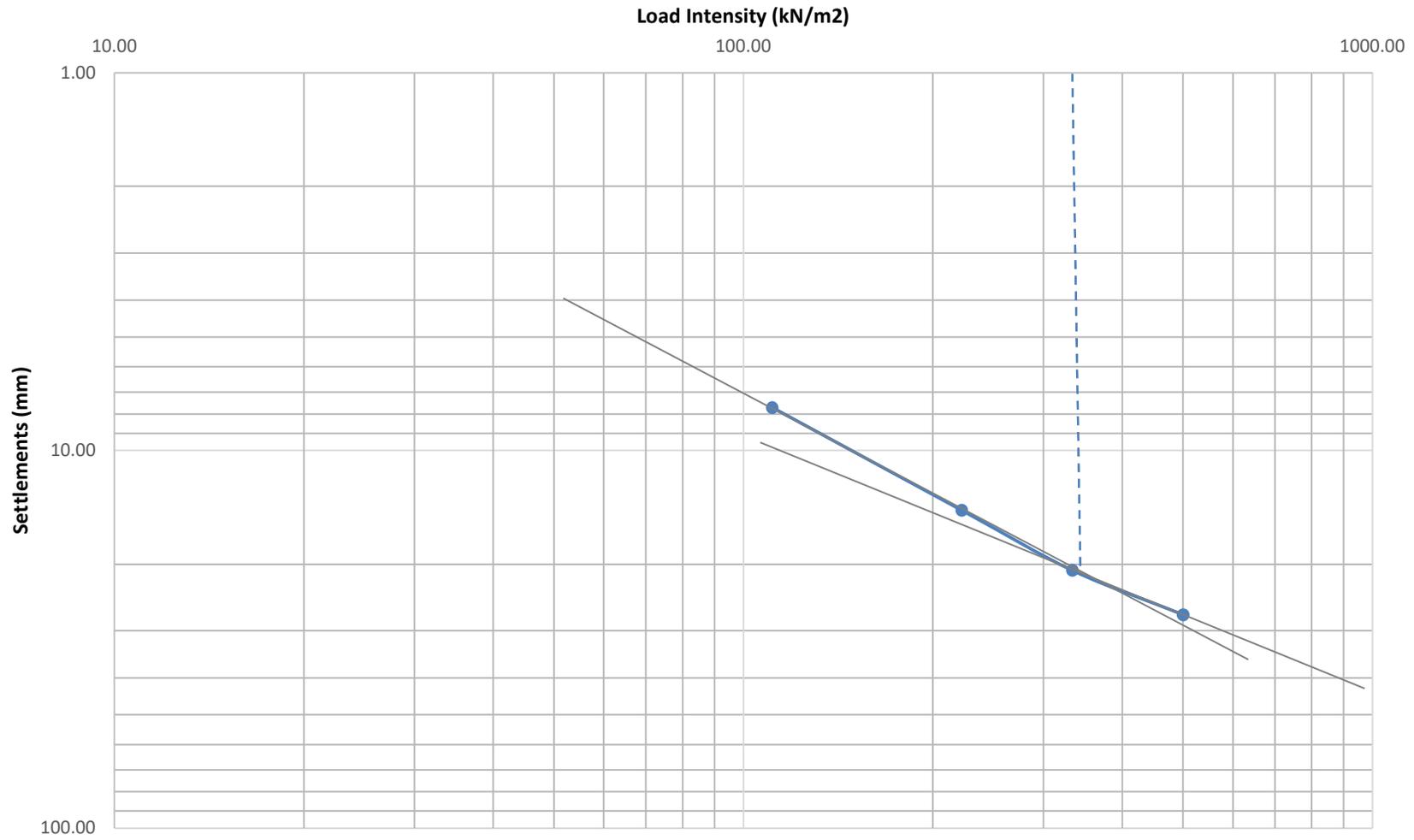


Plate Load Test - 04

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	PLT-04	Lat- 27.172755 Long- 95.355483

Observations

Plate Load Tests on 450 mm X 450 mm X 25 mm plate at specified depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
20	98.76	4.35
40	197.53	10.01
60	296.29	18.57
80	395.06	26.52

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- 25mm settlement of Plate
- Yield point
- Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity. Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity : = 250.00KN/Sq.mtr.

F = Factor of safety = 2.5

Result: $372/2.5 = 148.80$ KN/sqr.Metre

Table: Field Observation

DATE	TIME	LOAD APPLIED	DIAL GAUGE READING		MEAN	REAMARKS
	(Min.)		(mm)			
			A	B		
30-01-26	11.10	0.00	0.00	0.00	0.00	
	11.10	20KN	3.11	5.55	4.33	
	2.25	98.76KN/m ²	3.11	5.56	4.34	
	4.00		3.12	5.56	4.34	
	6.25		3.12	5.56	4.34	
	9.00		3.12	5.56	4.34	
	16.00		3.12	5.57	4.35	
	25.00		3.12	5.57	4.35	
	60.00		3.13	5.57	4.35	
	1.00	40KN	9.60	10.35	9.98	
	2.25	197.53KN/m ²	9.61	10.60	10.11	
	4.00		9.61	10.37	9.99	
	6.25		9.62	10.37	10.00	
	9.00		9.62	10.38	10.00	
	16.00		9.62	10.38	10.00	
	25.00		9.62	10.38	10.00	
	60.00		9.62	10.39	10.01	
	1.00	60KN	19.02	17.05	18.04	
	2.25	296.29KN/m ²	19.03	17.06	18.05	
	4.00		19.03	17.06	18.05	
	6.25		19.04	17.06	18.05	
	9.00		19.04	17.07	18.06	
	16.00		19.04	17.07	18.06	
	25.00		19.04	17.07	18.06	
	60.00		19.05	18.08	18.57	
	1.00	80KN	27.60	25.43	26.52	
	2.25	395.06KN/m ²	27.60	25.43	26.52	
	4.00		27.60	25.44	26.52	
	6.25		27.60	25.44	26.52	
	9.00		27.60	25.44	26.52	

Load settlement curve

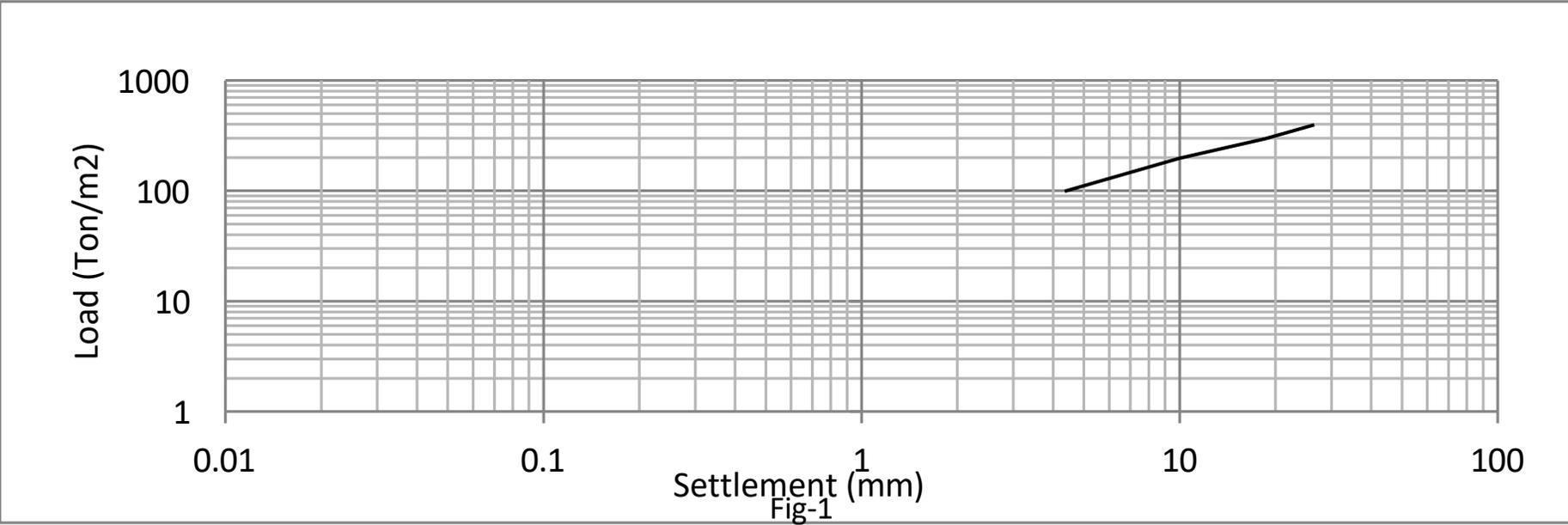


Fig-1

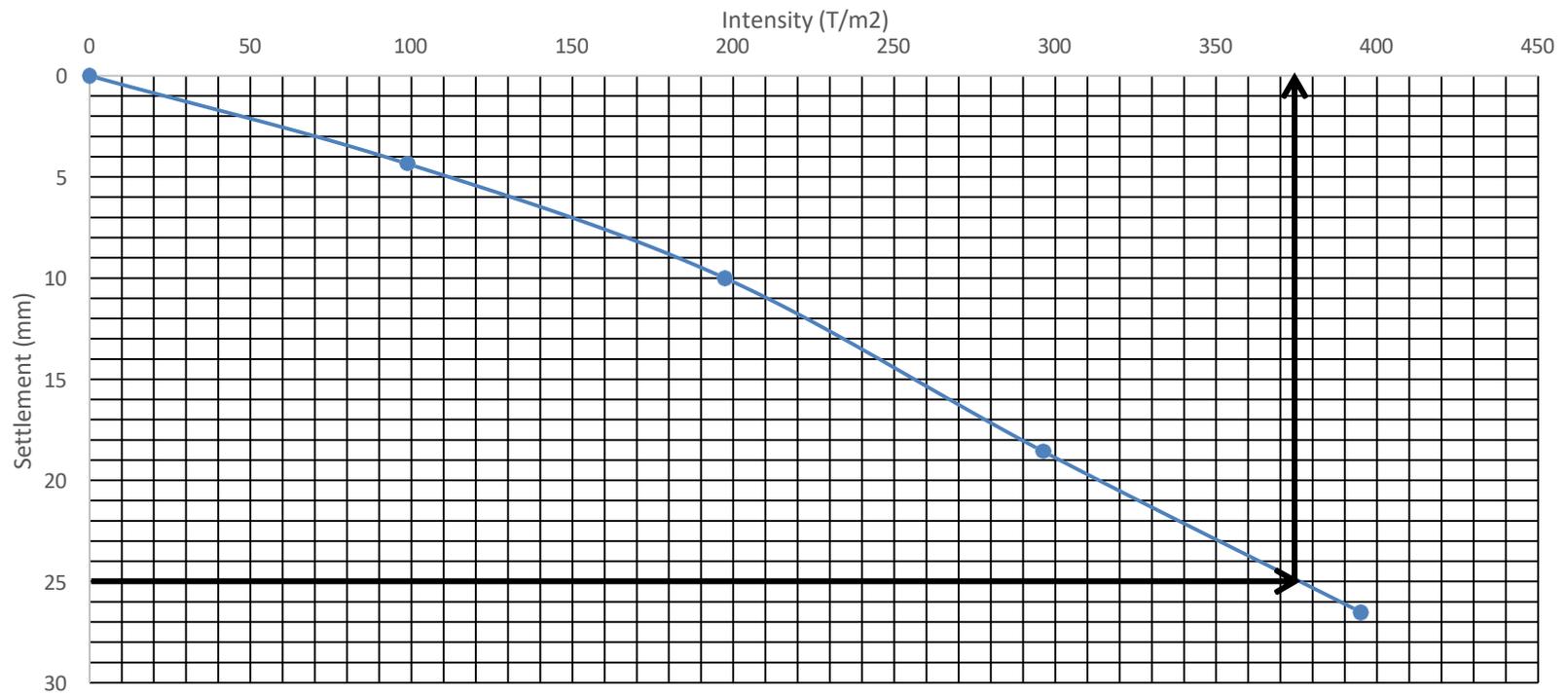


Fig-2

Plate Load Test - 05

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	PLT-5	Latitude : 27.173804, Longitude : 95.352967

Observations

Plate Load Tests on 450 mm X 450 mm X 25 mm plate at 2.5m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
20.00	98.77	9.18
40.00	197.53	12.51
60.00	296.30	18.46
70.00	345.68	27.09

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 280.00KN/Sq.mtr.

F = Factor of safety = 2.5

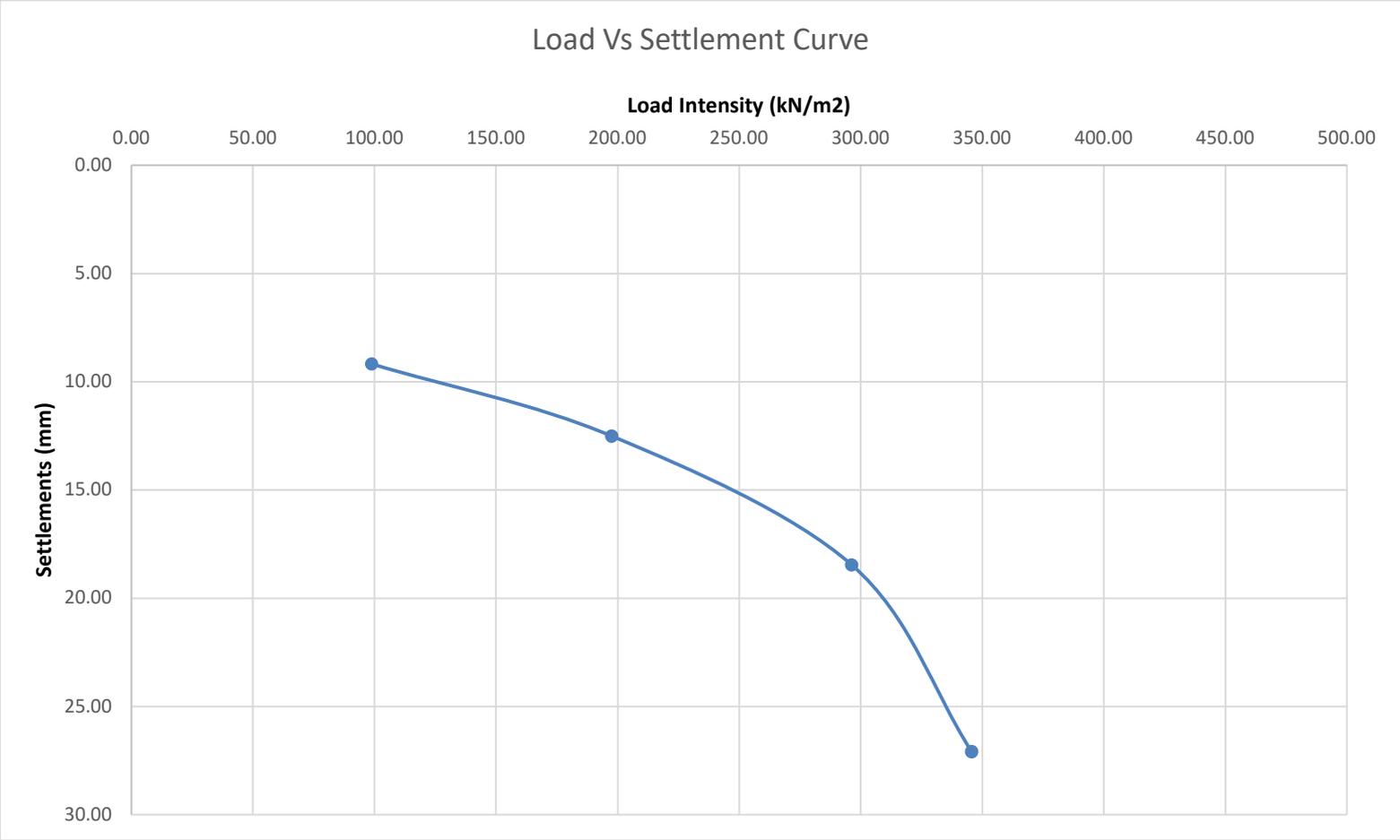
Result: 280/2.5 = 112.00 KN/sqr.Metre

Table: Field Observation

Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
23.1.2026	12.40	0 KN	0.00	0.00	0.00	
	1.00	20.00 KN	7.95	10.35	9.15	
	2.25		7.95	10.35	9.15	
	4.00		7.95	10.35	9.15	
	6.25		7.95	10.35	9.15	
	9.00		7.95	10.36	9.16	
	16.00		7.95	10.37	9.16	
	25.00		7.96	10.38	9.17	
	60.00		7.96	10.39	9.18	
	1.00	40.00 KN	11.51	13.48	12.50	
	2.25		11.51	13.48	12.50	
	4.00		11.52	13.49	12.51	
	6.25		11.52	13.49	12.51	
	9.00		11.52	13.49	12.51	
	16.00		11.52	13.49	12.51	
	25.00		11.52	13.49	12.51	
	60.00		11.52	13.50	12.51	
	1.00	60.00 KN	17.72	19.16	18.44	
	2.25		17.72	19.16	18.44	
	4.00		17.73	19.17	18.45	
	6.25		17.73	19.17	18.45	
	9.00		17.73	19.17	18.45	

	16.00		17.73	19.17	18.45	
	25.00		17.73	19.18	18.46	
	60.00		17.74	19.18	18.46	
	1.00	70.00 KN	26.58	27.60	27.09	

Load settlement curve



Load Vs Settlement Curve

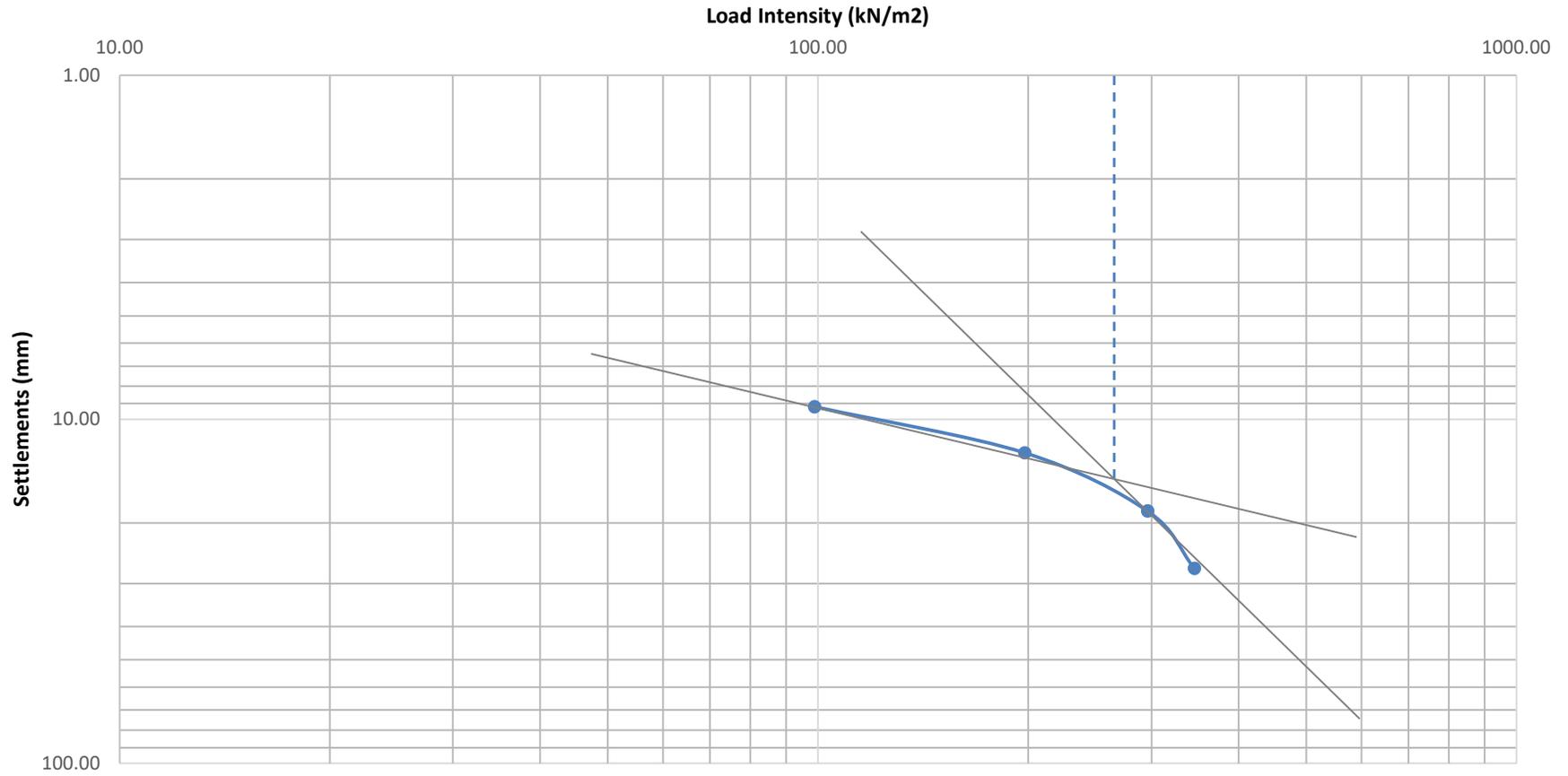


Plate Load Test - 06

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	PLT-06	Lat- 27.174427 Long- 95.34972

Observations

Plate Load Tests on 600 mm X 600 mm X 25 mm plate at specified depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
20	55.55	4.16
40	111.11	10.96
60	166.66	16.84
80	222.22	22.84
100	277.77	26.68

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- 25mm settlement of Plate
- Yield point
- Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity : = 250.00KN/Sq.mtr.

F = Factor of safety = 2.5

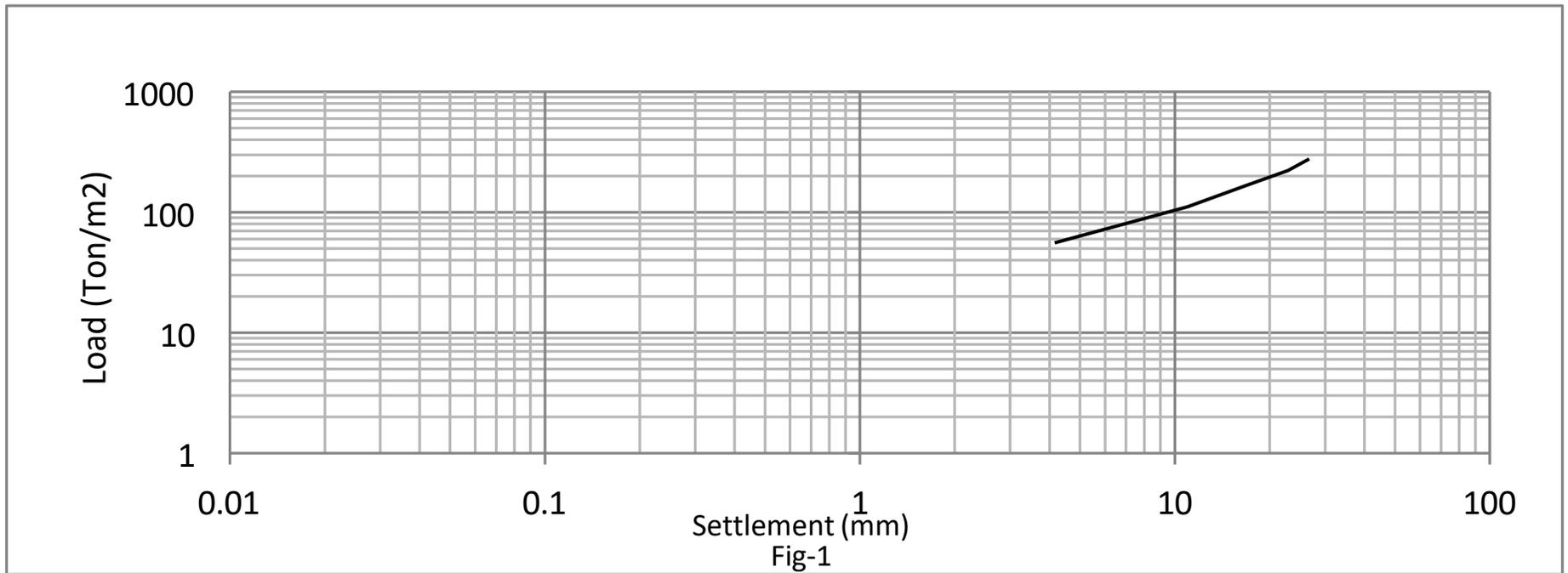
Result: 205/2.5 = 125.00 KN/sqr.Metre

Table: Field Observation

DATE	TIME	LOAD APPLIED	DIAL GAUGE READING		MEAN	REMARKS
	(Min.)		(mm)			
			A	B		
04-02-26	11.10	0.00	0.00	0.00	0.00	
	11.10	20KN	3.16	5.11	4.14	
	2.25	55.55KN/m2	3.17	5.12	4.15	
	4.00		3.17	5.12	4.15	
	6.25		3.17	5.12	4.15	
	9.00		3.18	5.13	4.16	
	16.00		3.18	5.13	4.16	
	25.00		3.18	5.13	4.16	
	60.00		3.18	5.13	4.16	
	1.00	40KN	10.01	11.87	10.94	
	2.25	111.11KN/m2	10.01	11.88	10.95	
	4.00		10.01	11.88	10.95	
	6.25		10.01	11.89	10.95	
	9.00		10.02	11.89	10.96	
	16.00		10.02	11.90	10.96	
	25.00		10.02	11.90	10.96	
	60.00		10.02	11.90	10.96	
	1.00	60KN	16.12	17.50	16.81	
	2.25	166.66KN/m2	16.13	17.51	16.82	
	4.00		16.13	17.51	16.82	
	6.25		16.14	17.52	16.83	
	9.00		16.11	17.52	16.82	
	16.00		16.15	17.52	16.84	
	25.00		16.15	17.53	16.84	
	60.00		16.15	17.53	16.84	
	1.00	80KN	22.42	23.19	22.81	
	2.25	222.22KN/m2	22.42	23.20	22.81	

	4.00		22.43	23.21	22.82	
	6.25		22.44	23.21	22.83	
	9.00		22.44	23.21	22.83	
	16.00		22.45	23.21	22.83	
	25.00		22.45	23.22	22.84	
	60.00		22.45	23.22	22.84	
	1.00	100KN	27.56	25.80	26.68	
	2.25	277.77KN/m2	27.56	25.80	26.68	
	4.00		27.56	25.80	26.68	
	6.25		27.56	25.80	26.68	
	9.00		27.56	25.80	26.68	
	16.00		27.56	25.80	26.68	
	25.00		27.56	25.80	26.68	
	60.00		27.56	25.80	26.68	

Load settlement curve



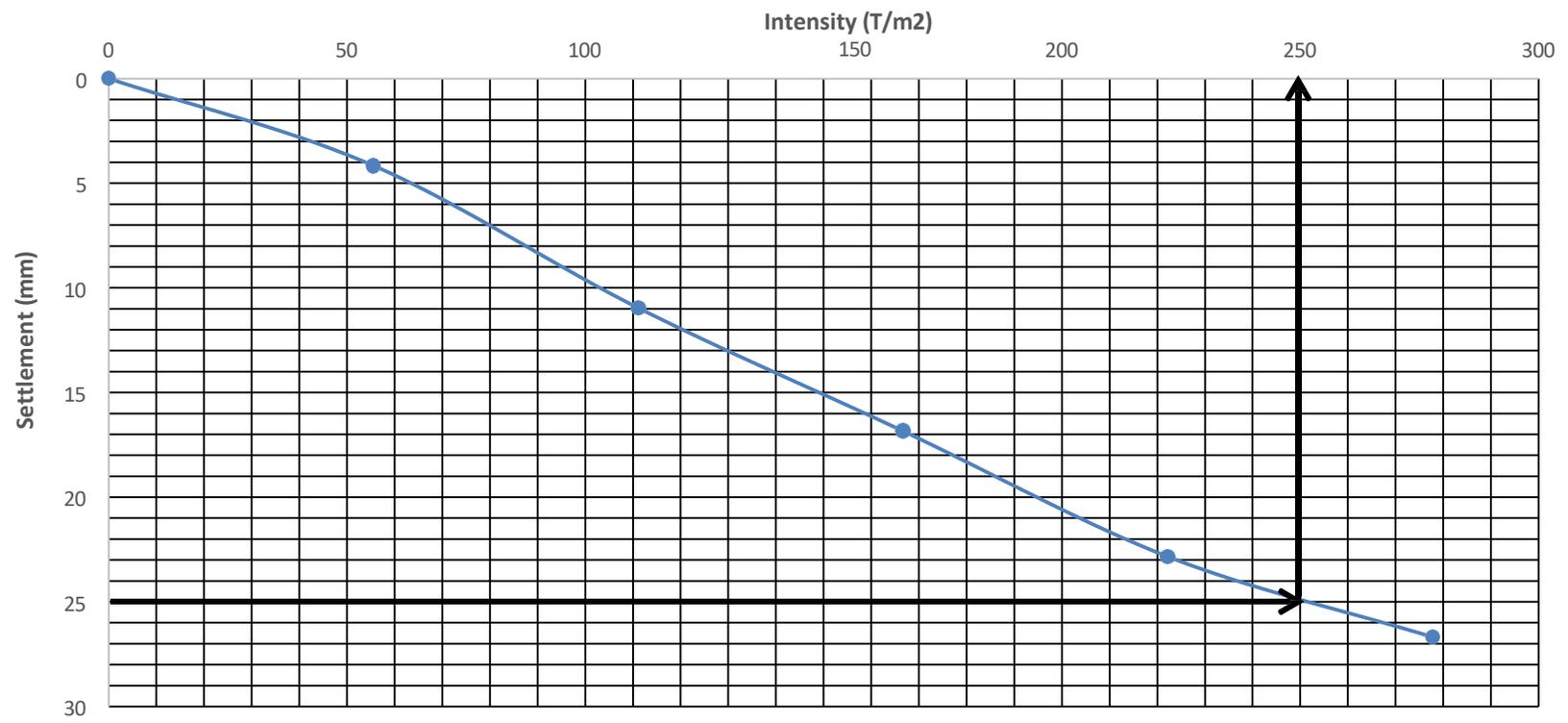


Fig-2

CPLT - 01

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	CPLT-1	Latitude : 27.175277, Longitude : 95.357045

Observations

Plate Load Tests on 450 mm X 450 mm X 25 mm plate at 2.25m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
20.00	98.77	7.89
40.00	197.53	11.99
60.00	296.30	18.59
70.00	345.68	27.58

Further the load was released to 0 (Zero) to measure reverse settlement under rebound pressure. The load intensity with respect to reverse settlement has been given below and graph has been plotted with respective stress condition.

Applied Loading Intensity (KN/m ²)	Loading Intensity (KN/m ²)	Gross settlement (mm)
98.77	0.00	5.35
197.53	0.00	9.82
296.30	0.00	16.56
345.68	0.00	20.60

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 230 KN/Sq.mtr.

F = Factor of safety = 2.5

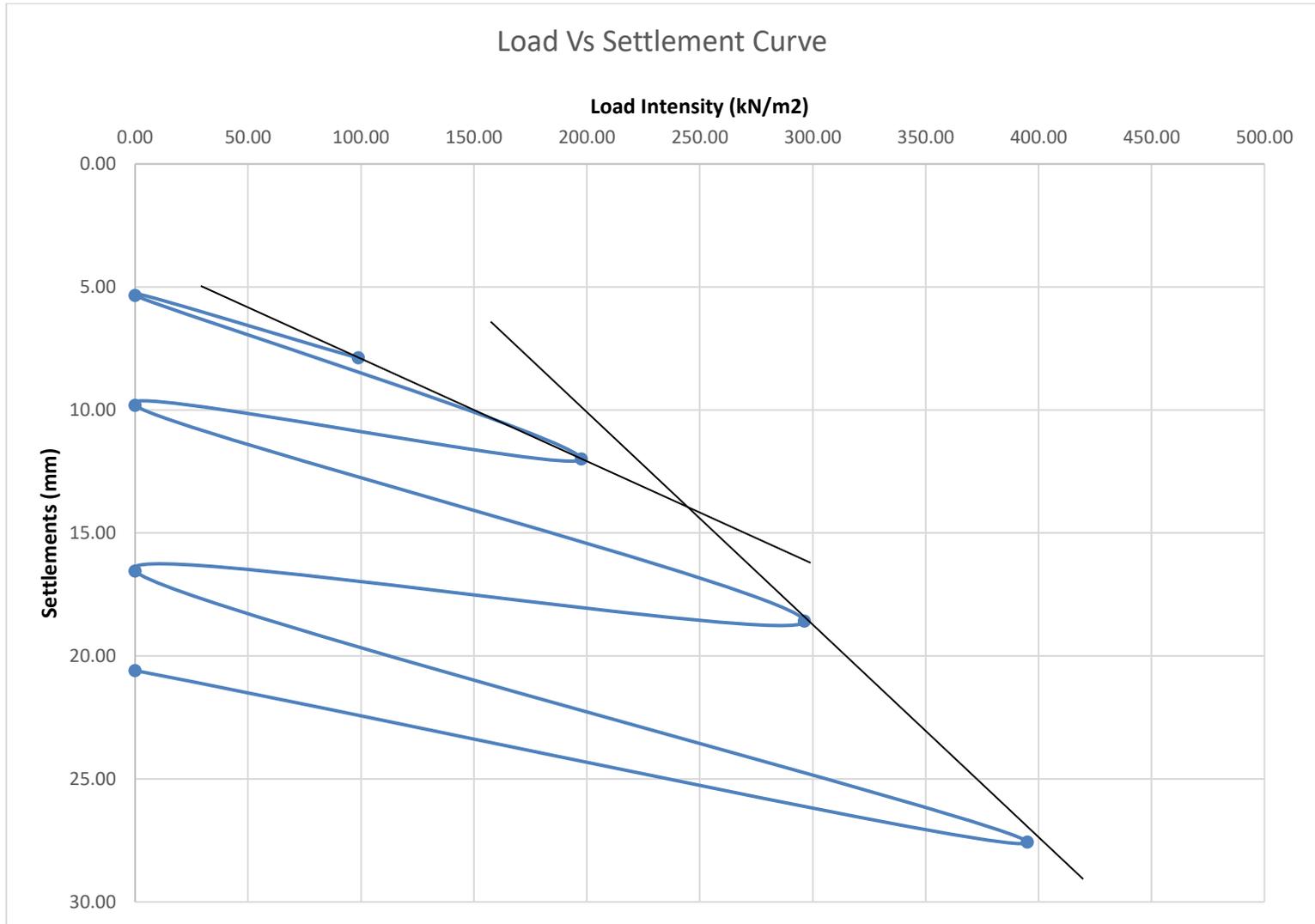
Result: $220/2.5 = 92.00$ KN/sqr.Metre

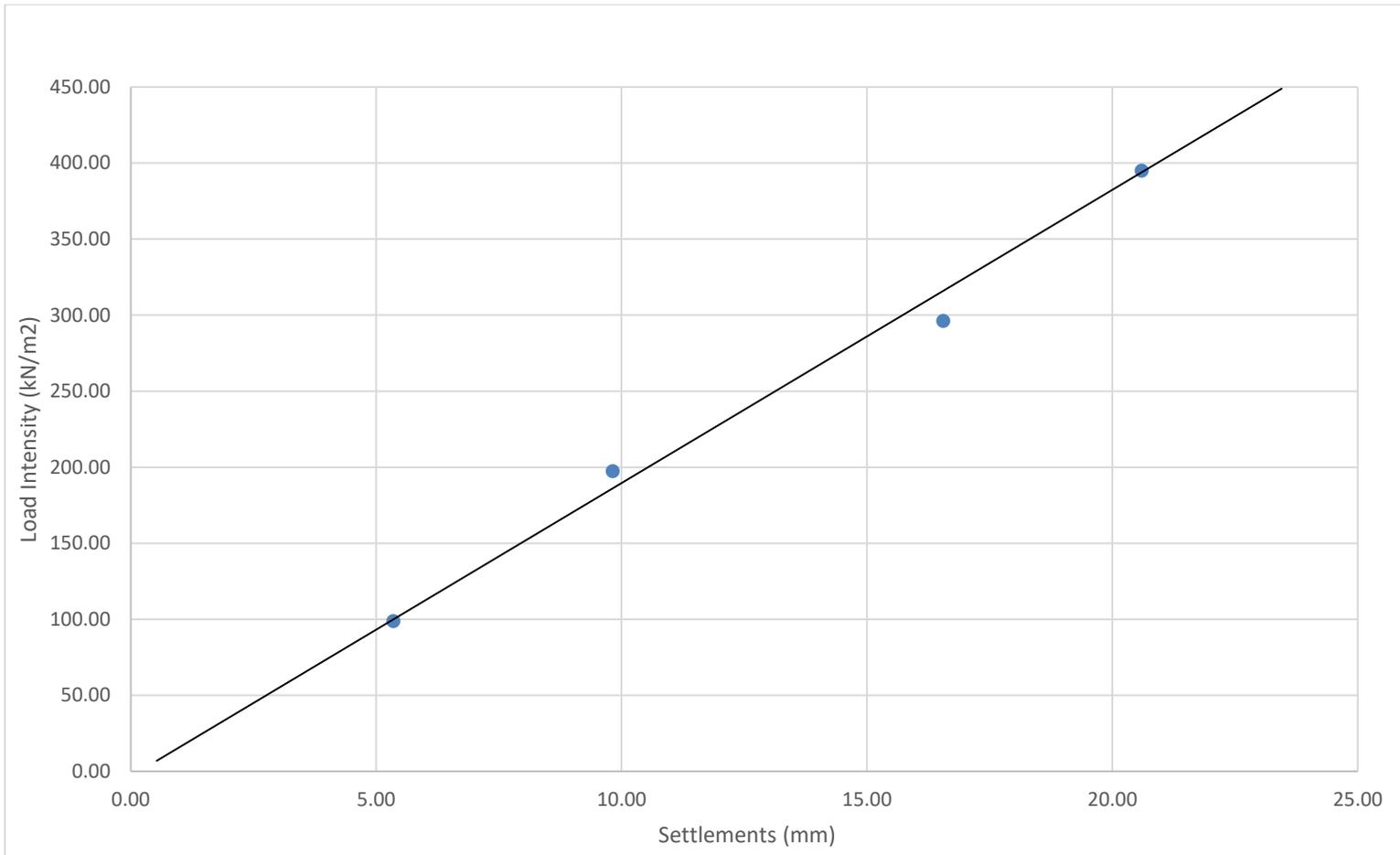
Table: Field Observation

Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
03.02.26	4.00	0 KN	0.00	0.00	0.00	
	1.00	20.00 KN	6.13	9.60	7.87	
	2.25	20.00 KN	6.13	9.60	7.87	
	4.00	20.00 KN	6.14	9.60	7.87	
	6.25	20.00 KN	6.14	9.61	7.88	
	9.00	20.00 KN	6.14	9.61	7.88	
	16.00	20.00 KN	6.15	9.61	7.88	
	25.00	20.00 KN	6.15	9.61	7.88	
	60.00	20.00 KN	6.15	9.62	7.89	
	CPLT Rebound					
	5.05	0.00 KN	3.93	6.77	5.35	
	1.00	40.00 KN	10.31	13.62	11.97	
	2.25	40.00 KN	10.31	13.63	11.97	

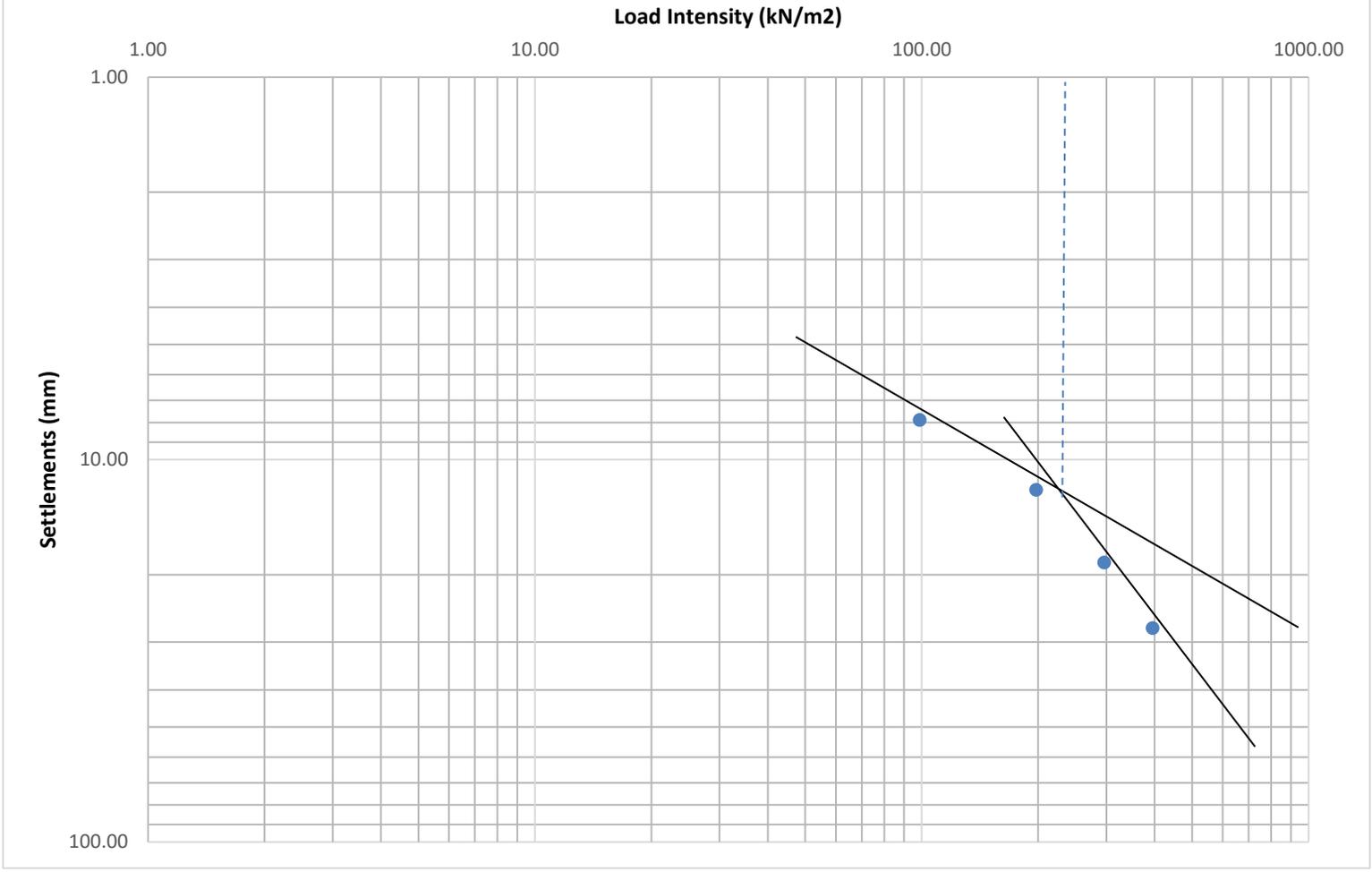
	4.00	40.00 KN	10.31	13.63	11.97	
	6.25	40.00 KN	10.32	13.64	11.98	
	9.00	40.00 KN	10.32	13.64	11.98	
	16.00	40.00 KN	10.33	13.64	11.99	
	25.00	40.00 KN	10.33	13.65	11.99	
	60.00	40.00 KN	10.33	13.65	11.99	
	Rebound					
	6.10	0.00 KN	8.61	11.03	9.82	
	1.00	60.00 KN	17.03	20.10	18.57	
	2.25	60.00 KN	17.03	20.11	18.57	
	4.00	60.00 KN	17.03	20.11	18.57	
	6.25	60.00 KN	17.04	20.12	18.58	
	9.00	60.00 KN	17.04	20.12	18.58	
	16.00	60.00 KN	17.04	20.12	18.58	
	25.00	60.00 KN	17.04	20.13	18.59	
	60.00	60.00 KN	17.05	20.13	18.59	
	Rebound					
	7.15	0.00 KN	15.11	18.00	16.56	
	1.00	80.00 KN	27.56	27.58	27.57	
	2.25	80.00 KN	27.56	27.58	27.57	
	4.00	80.00 KN	27.56	27.59	27.58	
	6.25	80.00 KN	27.56	27.59	27.58	
	9.00	80.00 KN	27.56	27.59	27.58	
	16.00	80.00 KN	27.56	27.59	27.58	
	25.00	80.00 KN	27.56	27.59	27.58	
	60.00	80.00 KN	27.56	27.59	27.58	
	Rebound					
	8.2	0.00 KN	20.17	21.02	20.595	

Load settlement curve





Load Vs Settlement Curve



CPLT - 02

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	CPLT-2	Latitude : 27.178146, Longitude : 95.349548

Observations

Plate Load Tests on 300 mm X 300 mm X 25 mm plate at 1.50m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
10.00 KN	111.11	6.33
20.00 KN	222.22	11.55
30.00 KN	333.33	15.82
40.00 KN	444.44	21.48
50.00 KN	555.56	27.18

Further the load was released to 0 (Zero) to measure reverse settlement under rebound pressure. The load intensity with respect to reverse settlement has been given below and graph has been plotted with respective stress condition.

Applied Loading Intensity (KN/m ²)	Loading Intensity (KN/m ²)	Gross settlement (mm)
111.11	0.00	5.97
222.22	0.00	11.10
333.33	0.00	15.36
444.44	0.00	20.86
555.56	0.00	26.225

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 300 KN/Sq.mtr.

F = Factor of safety = 2.5

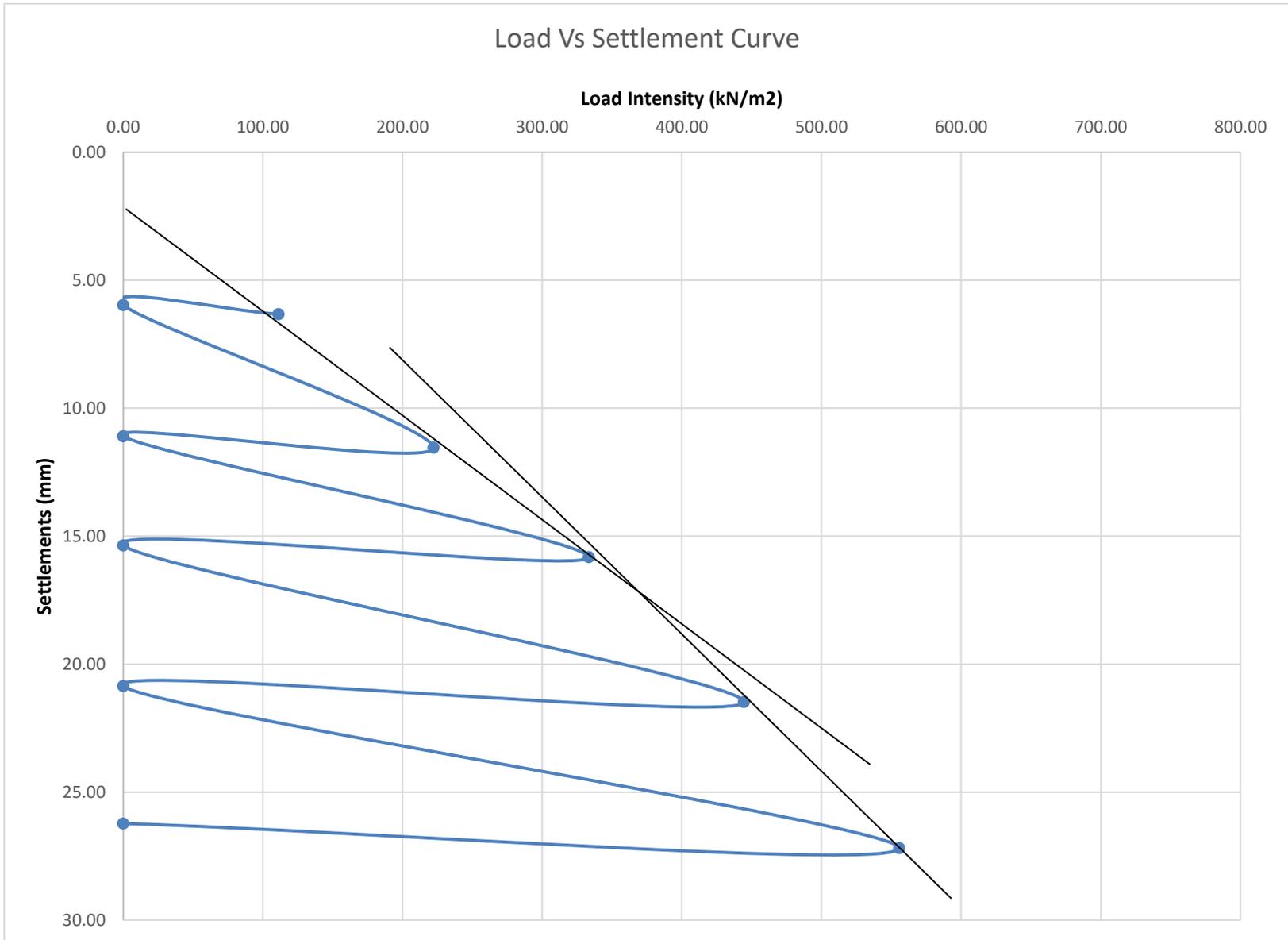
Result: $300/2.5 = 120.00$ KN/sqr.Metre

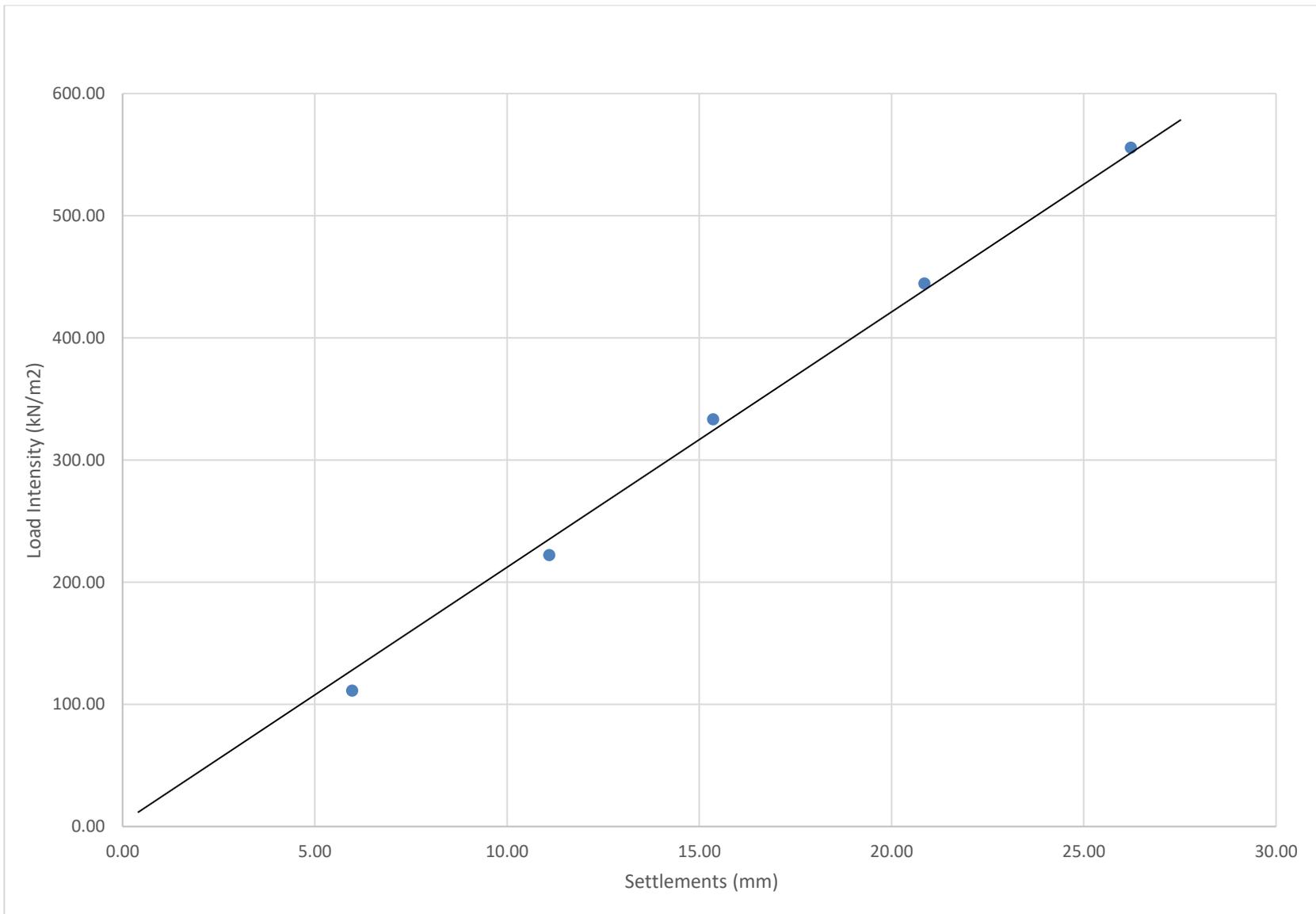
Table: Field Observation

Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
02.02.2026	2.00	0 KN	0.00	0.00	0.00	
	1.00	10.00 KN	6.19	6.37	6.28	
	2.25		6.20	6.39	6.30	
	4.00		6.20	6.40	6.30	
	6.25		6.21	6.40	6.31	
	9.00		6.21	6.41	6.31	
	16.00		6.22	6.42	6.32	
	25.00		6.23	6.42	6.33	
	60.00		6.23	6.42	6.33	
CPLT Rebound						
	3.05	0.00 KN	5.85	6.09	5.97	
	1.00	20.00 KN	11.17	11.85	11.51	
	2.25		11.18	11.86	11.52	
	4.00		11.19	11.86	11.53	
	6.25		11.19	11.87	11.53	
	9.00		11.19	11.87	11.53	
	16.00		11.20	11.88	11.54	
	25.00		11.20	11.89	11.55	
	60.00		11.20	11.89	11.55	
Rebound						
	4.10	0.00 KN	10.78	11.41	11.10	

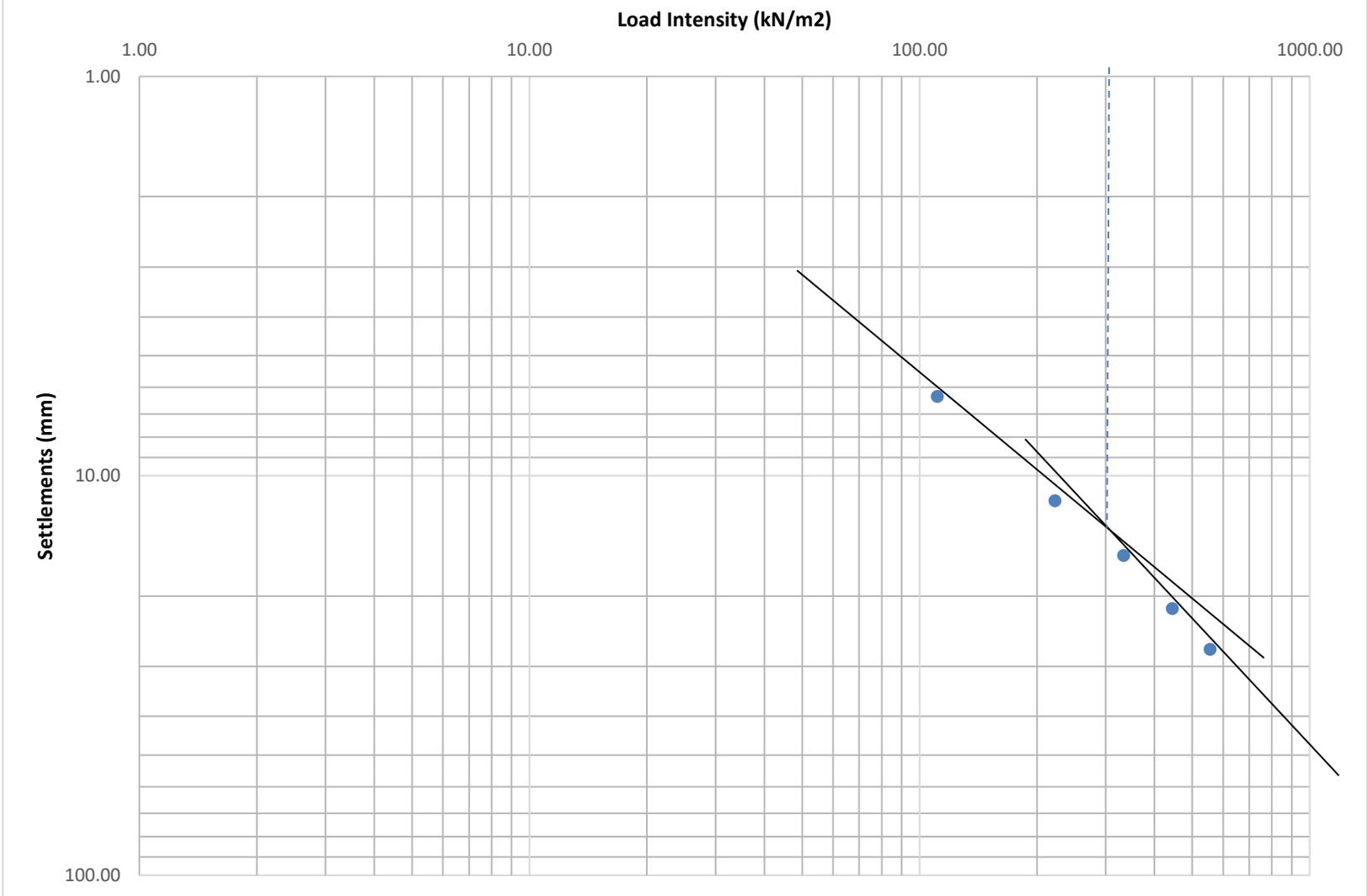
	1.00	30.00 KN	15.38	16.19	15.79	
	2.25		15.39	16.19	15.79	
	4.00		15.40	16.20	15.80	
	6.25		15.40	16.20	15.80	
	9.00		15.41	16.21	15.81	
	16.00		15.41	16.22	15.82	
	25.00		15.41	16.22	15.82	
	60.00		15.41	16.23	15.82	
	Rebound					
	5.15	0.00 KN	14.99	15.73	15.36	
	1.00	40.00 KN	21.01	21.89	21.45	
	2.25		21.01	21.90	21.46	
	4.00		21.02	21.91	21.47	
	6.25		21.03	21.91	21.47	
	9.00		21.03	21.92	21.48	
	16.00		21.03	21.92	21.48	
	25.00		21.03	21.92	21.48	
	60.00		21.03	21.92	21.48	
	Rebound					
	6.2	0.00 KN	20.60	21.11	20.86	
	1.00	50.00 KN	26.8	27.49	27.15	
	2.25		26.81	27.5	27.16	
	4.00		26.81	27.51	27.16	
	6.25		26.82	27.51	27.17	
	9.00		26.83	27.52	27.18	
	16.00		26.83	27.53	27.18	
	25.00		26.83	27.53	27.18	
	60.00		26.83	27.53	27.18	
	Rebound					
	7.25	0.00 KN	25.95	26.5	26.225	

Load settlement curve





Load Vs Settlement Curve



CPLT - 03

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	CPLT-3	Latitude : 27.175671, Longitude : 95.352794

Observations

Plate Load Tests on 600 mm X 600 mm X 25 mm plate at 3.00m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
20.00 KN	55.56	3.98
40.00 KN	111.11	9.66
60.00 KN	166.67	15.74
80.00 KN	222.22	22.62
95.00 KN	263.89	27.16

Further the load was released to 0 (Zero) to measure reverse settlement under rebound pressure. The load intensity with respect to reverse settlement has been given below and graph has been plotted with respective stress condition.

Applied Loading Intensity (KN/m ²)	Loading Intensity (KN/m ²)	Gross settlement (mm)
55.56	0.00	3.62
111.11	0.00	9.29
166.67	0.00	15.29
222.22	0.00	21.94
263.89	0.00	26.225

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity. Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and Q_{nf}
 = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 160 KN/Sq.mtr.

F = Factor of safety = 2.5

Result: $160/2.5 = 64.00$ KN/sqr.Metre

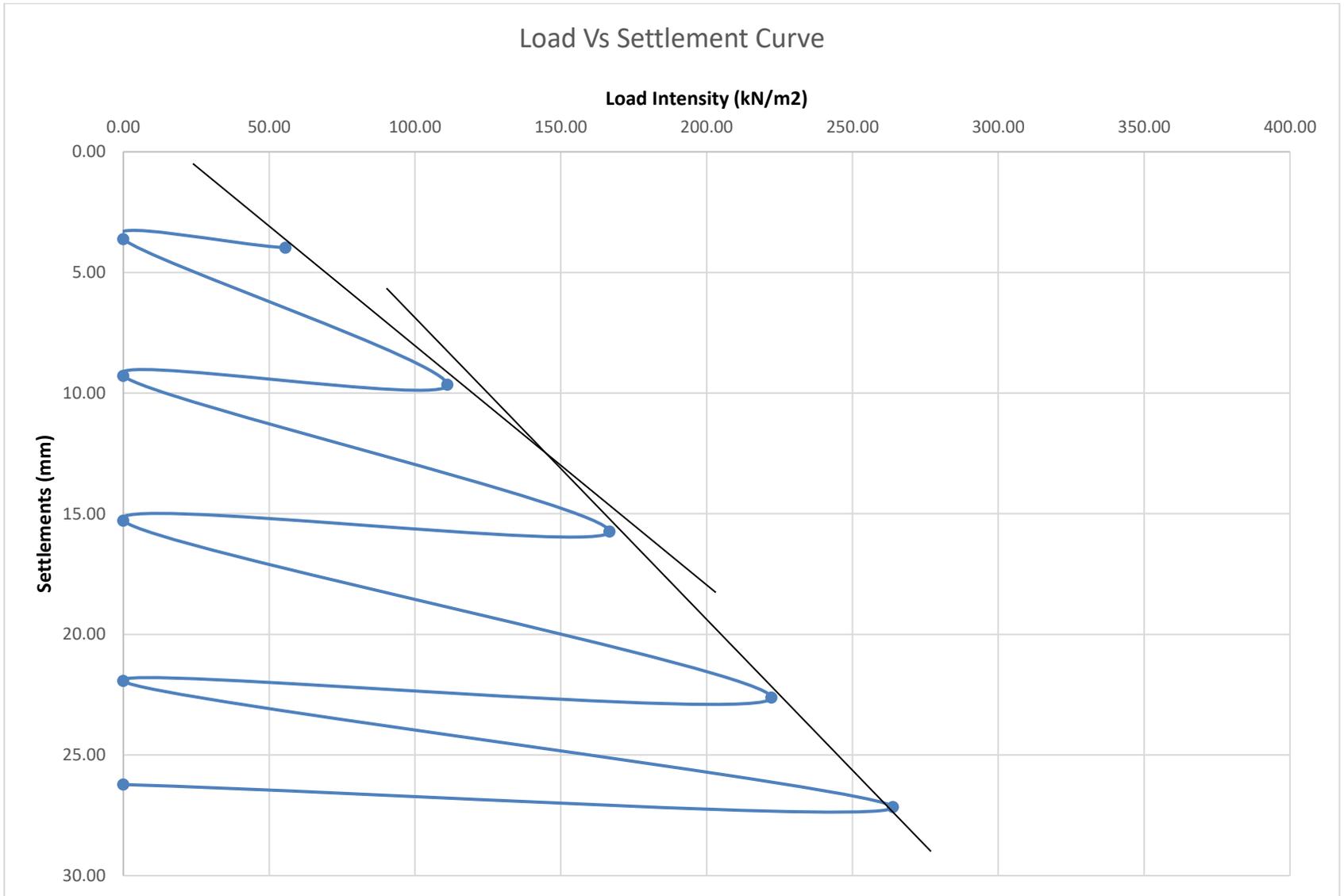
Table: Field Observation

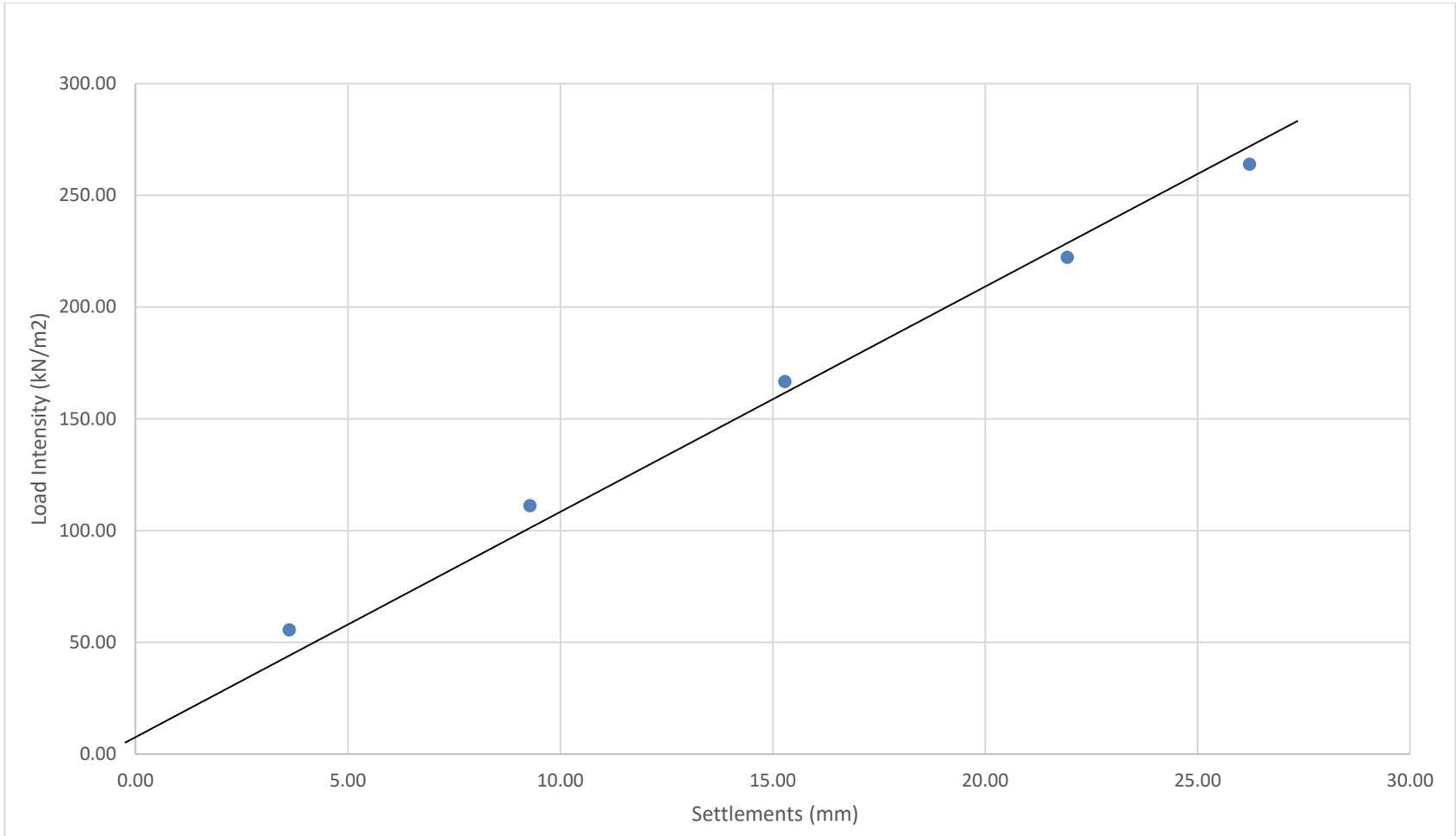
Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
02.02.2026	9.00	0 KN	0.00	0.00	0.00	
	1.00	20.00 KN	3.90	3.98	3.94	
	2.25		3.90	3.99	3.95	
	4.00		3.91	3.99	3.95	
	6.25		3.91	4.00	3.96	
	9.00		3.91	4.01	3.96	
	16.00		3.92	4.01	3.97	

	25.00		3.93	4.02	3.98	
	60.00		3.93	4.02	3.98	
	CPLT Rebound					
	10.05	0.00 KN	3.61	3.63	3.62	
	1.00	40.00 KN	9.18	10.00	9.59	
	2.25		9.19	10.01	9.60	
	4.00		9.21	10.03	9.62	
	6.25		9.22	10.05	9.64	
	9.00		9.22	10.05	9.64	
	16.00		9.23	10.06	9.65	
	25.00		9.24	10.06	9.65	
	60.00		9.24	10.07	9.66	
	Rebound					
	11.10	0.00 KN	8.97	9.60	9.29	
	1.00	60.00 KN	15.37	15.99	15.68	
	2.25		15.38	16.00	15.69	
	4.00		15.39	16.02	15.71	
	6.25		15.39	16.03	15.71	
	9.00		15.40	16.03	15.72	
	16.00		15.41	16.04	15.73	
	25.00		15.42	16.04	15.73	
	60.00		15.42	16.05	15.74	
	Rebound					
	12.15	0.00 KN	15.01	15.56	15.29	
	1.00	80.00 KN	22.23	22.90	22.57	
	2.25		22.24	22.92	22.58	
	4.00		22.25	22.93	22.59	

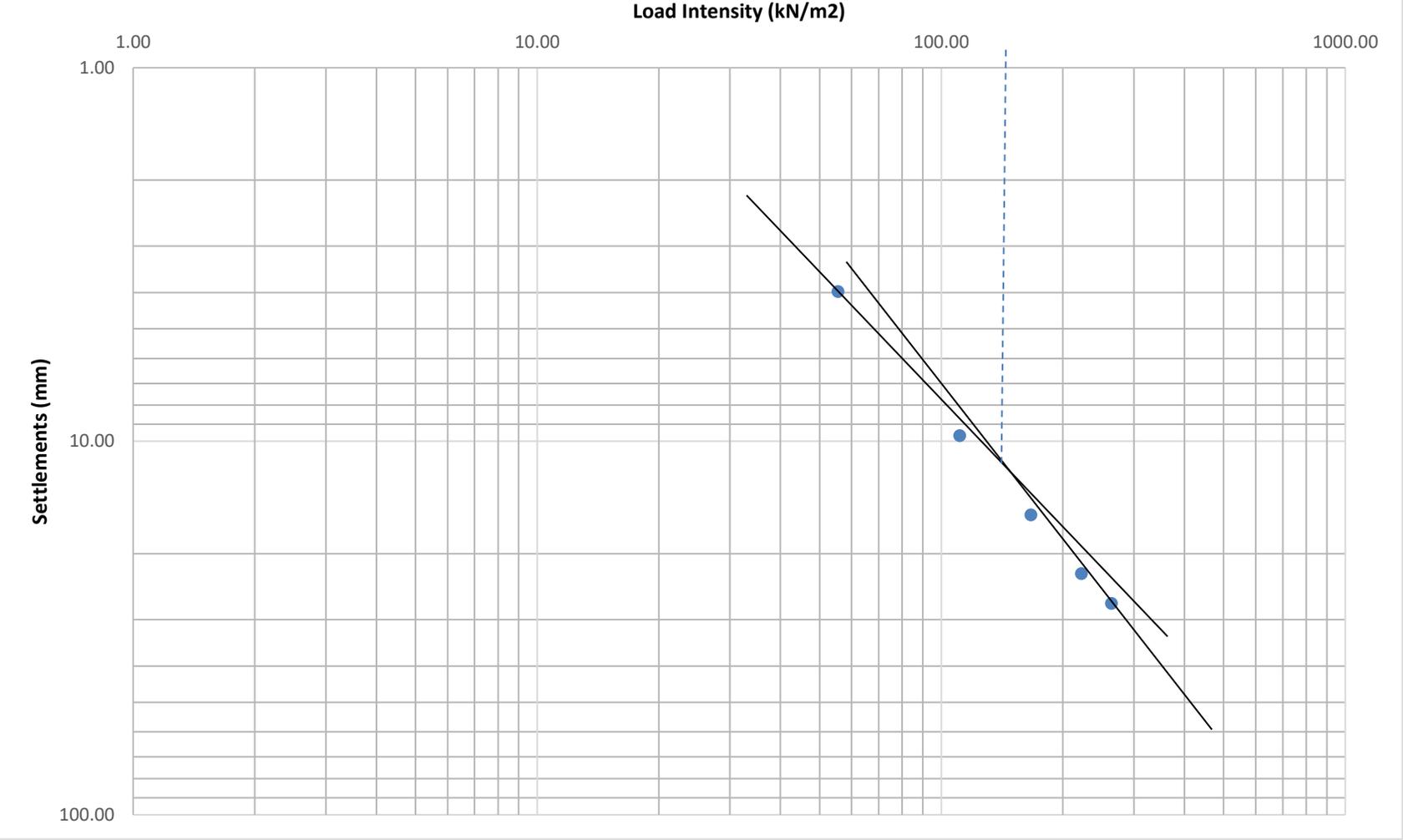
	6.25		22.25	22.94	22.60	
	9.00		22.26	22.94	22.60	
	16.00		22.27	22.95	22.61	
	25.00		22.27	22.96	22.62	
	60.00		22.28	22.96	22.62	
Rebound						
	1.2	0.00 KN	21.67	22.20	21.94	
	1.00	95.00 KN	26.80	27.48	27.14	
	2.25		26.80	27.50	27.15	
	4.00		26.81	27.51	27.16	
	6.25		26.81	27.51	27.16	
	9.00		26.81	27.51	27.16	
	16.00		26.81	27.51	27.16	
	25.00		26.81	27.51	27.16	
	60.00		26.81	27.51	27.16	
Rebound						
	2.25	0.00 KN	25.85	26.6	26.225	

Load settlement curve





Load Vs Settlement Curve



CPLT - 04

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	CPLT-4	Latitude : 27.178146, Longitude : 95.349548

Observations

Plate Load Tests on 450 mm X 450 mm X 25 mm plate at 2.00m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
20.00 KN	98.77	1.46
40.00 KN	197.53	7.92
60.00 KN	296.30	15.19
80.00 KN	395.06	23.16
100.00 KN	493.83	26.53

Further the load was released to 0 (Zero) to measure reverse settlement under rebound pressure. The load intensity with respect to reverse settlement has been given below and graph has been plotted with respective stress condition.

Applied Loading Intensity (KN/m ²)	Loading Intensity (KN/m ²)	Gross settlement (mm)
98.77	0.00	1.36
197.53	0.00	7.67
296.30	0.00	14.98
395.06	0.00	22.95
493.83	0.00	26.53

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity = 330 KN/Sq.mtr.

F = Factor of safety = 2.5

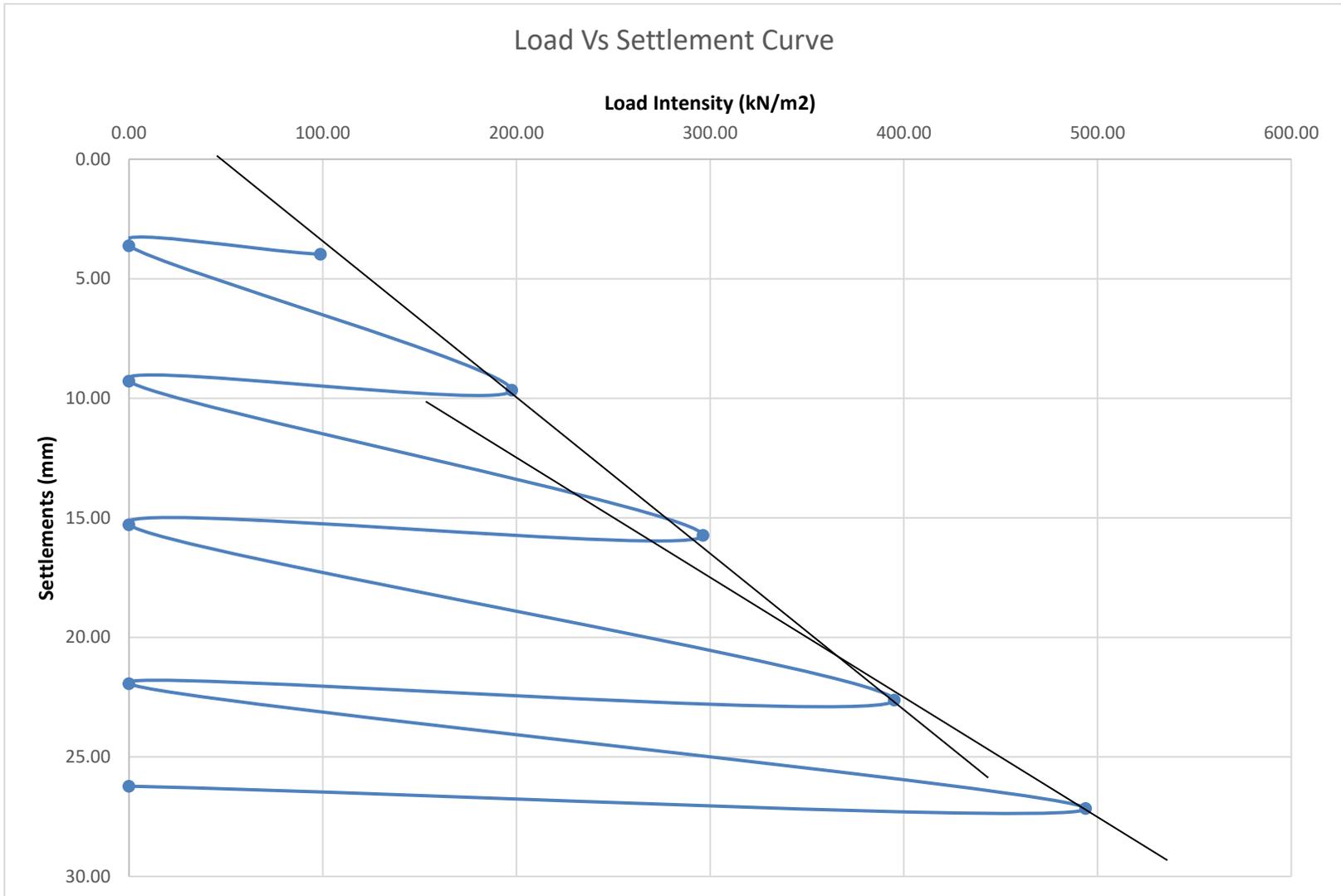
Result: $330/2.5 = 132.00$ KN/sqr.Metre

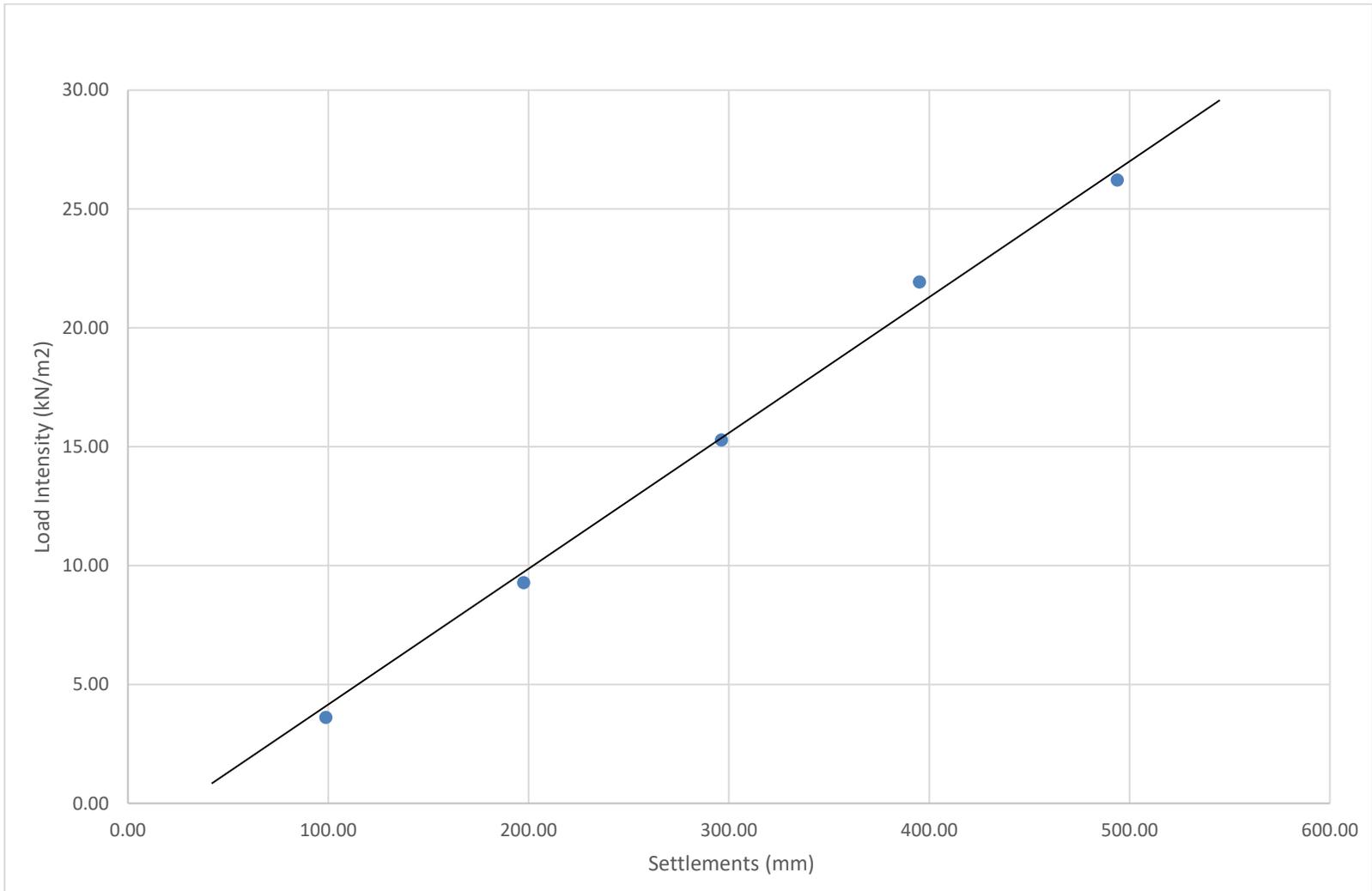
Table: Field Observation

Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
30.01.2026	4.25	0 KN	0.00	0.00	0.00	
	1.00	20.00 KN	1.48	1.37	1.43	
	2.25		1.49	1.38	1.44	
	4.00		1.49	1.38	1.44	
	6.25		1.50	1.38	1.44	
	9.00		1.50	1.39	1.45	
	16.00		1.50	1.39	1.45	
	25.00		1.51	1.39	1.45	
	60.00		1.52	1.40	1.46	
	CPLT Rebound					
	5.3	0.00 KN	1.41	1.30	1.355	
	1.00	40.00 KN	7.89	7.85	7.87	
	2.25		7.90	7.86	7.88	

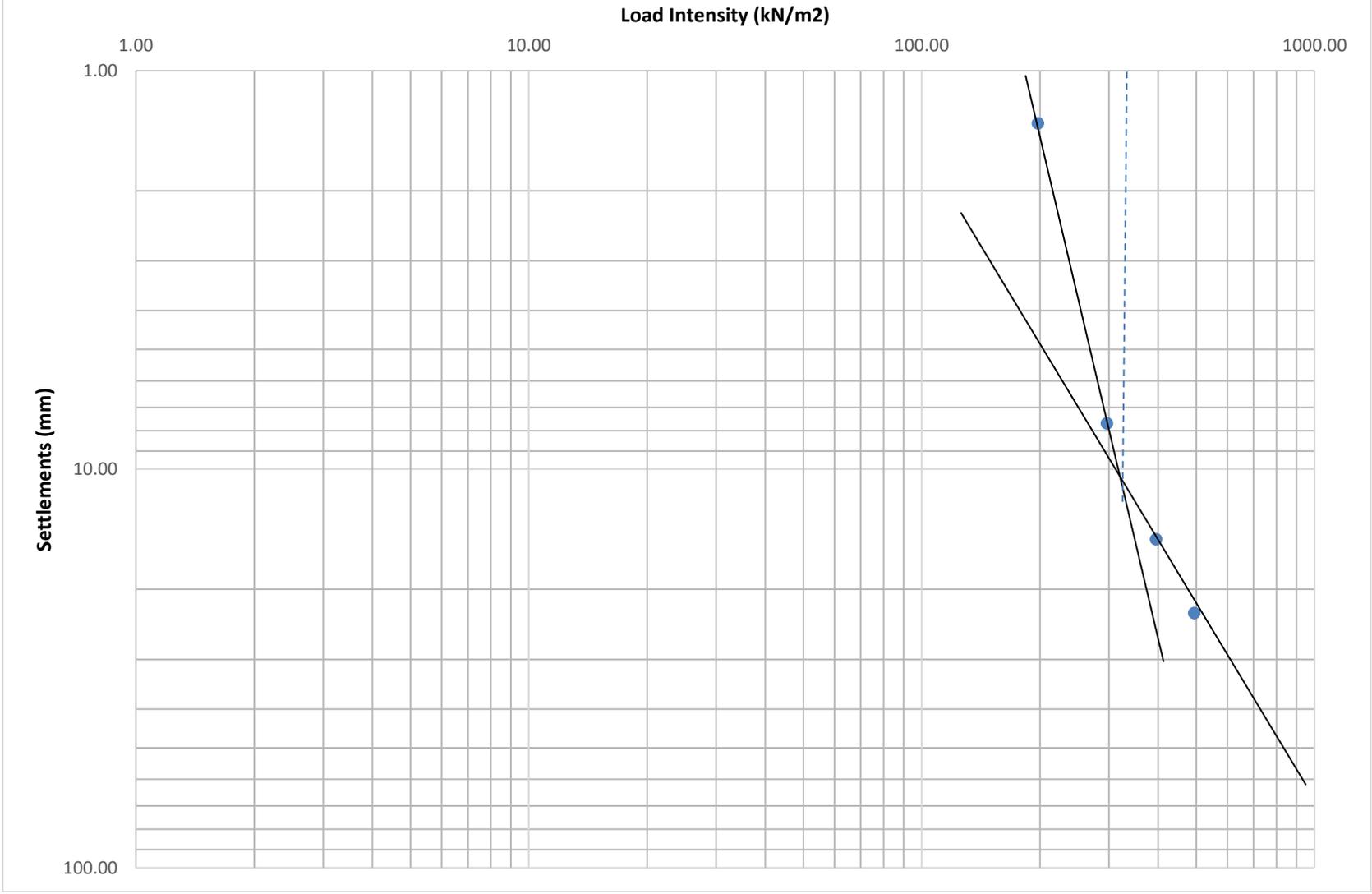
	4.00		7.90	7.87	7.89	
	6.25		7.91	7.87	7.89	
	9.00		7.92	7.88	7.90	
	16.00		7.92	7.89	7.91	
	25.00		7.92	7.89	7.91	
	60.00		7.93	7.90	7.92	
	Rebound					
	6.35	0.00 KN	7.70	7.63	7.67	
	1.00	60.00 KN	15.18	15.15	15.17	
	2.25		15.18	15.16	15.17	
	4.00		15.19	15.16	15.18	
	6.25		15.19	15.16	15.18	
	9.00		15.19	15.17	15.18	
	16.00		15.20	15.17	15.19	
	25.00		15.20	15.17	15.19	
	60.00		15.20	15.17	15.19	
	Rebound					
	7.40	0.00 KN	15.01	14.95	14.98	
	1.00	80.00 KN	23.15	23.10	23.13	
	2.25		23.16	23.11	23.14	
	4.00		23.16	23.11	23.14	
	6.25		23.16	23.12	23.14	
	9.00		23.17	23.12	23.15	
	16.00		23.17	23.12	23.15	
	25.00		23.17	23.13	23.15	
	60.00		23.18	23.14	23.16	
	Rebound					
	8.45	0.00 KN	22.99	22.90	22.945	
	1.00	100.00 KN	27.60	25.46	26.53	
	2.25		27.60	25.46	26.53	

Load settlement curve





Load Vs Settlement Curve



CPLT - 05

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	CPLT-5	Latitude : 27.176806, Longitude : 95.351592

Observations

Plate Load Tests on 300 mm X 300 mm X 25 mm plate at 1.50m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed. Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
10.00 KN	111.11	5.97
20.00 KN	222.22	12.25
30.00 KN	333.33	17.65
40.00 KN	444.44	23.52
45.00 KN	500.00	27.51

Further the load was released to 0 (Zero) to measure reverse settlement under rebound pressure. The load intensity with respect to reverse settlement has been given below and graph has been plotted with respective stress condition.

Applied Loading Intensity (KN/m ²)	Loading Intensity (KN/m ²)	Gross settlement (mm)
111.11	0.00	5.66
222.22	0.00	11.89
333.33	0.00	17.43
444.44	0.00	23.03
500.00	0.00	25.80

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity. Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 402 KN/Sq.mtr.

F = Factor of safety = 2.5

Result: $402/2.5 = 160.8.00$ KN/sqr.Metre

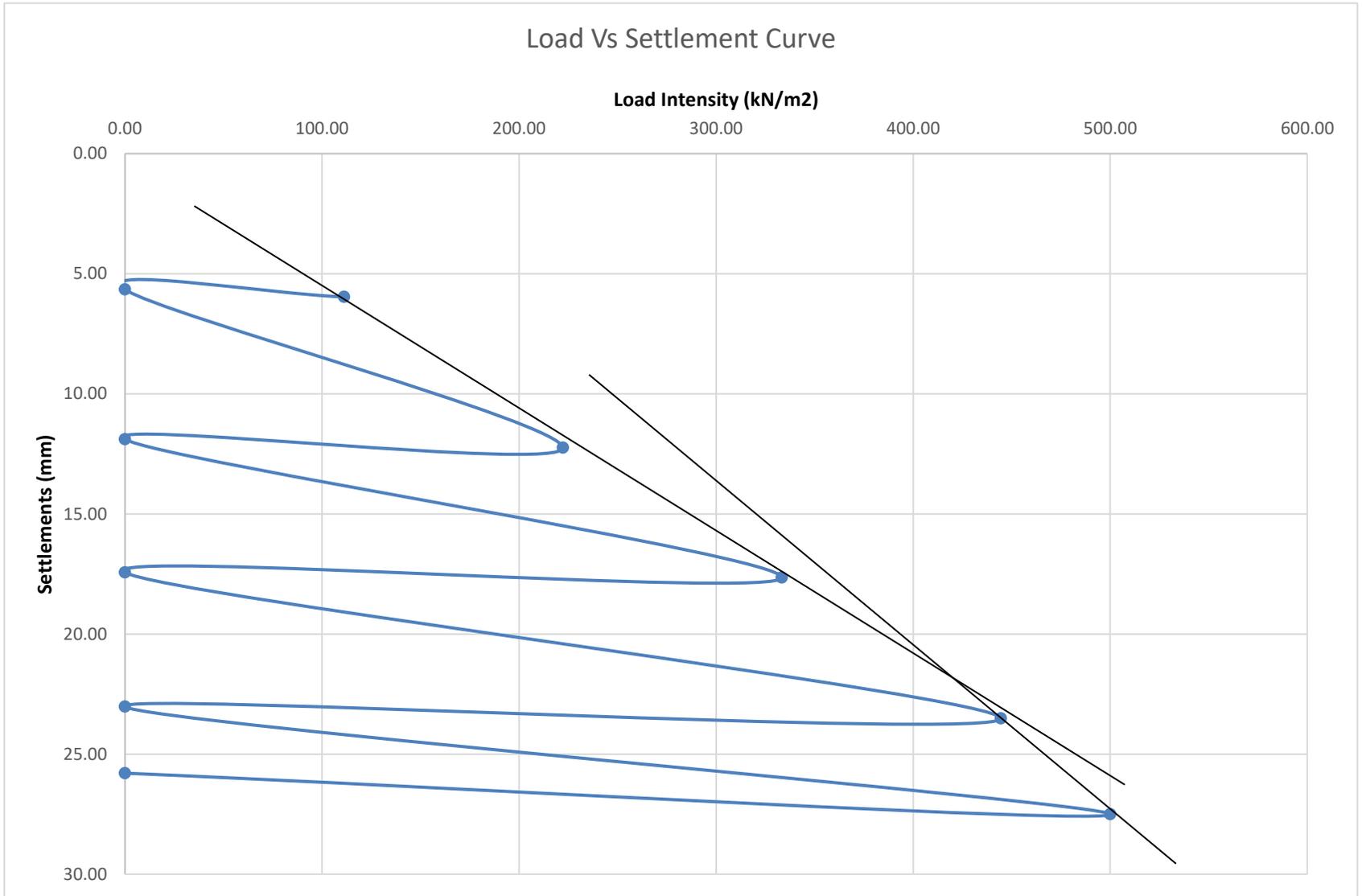
Table: Field Observation

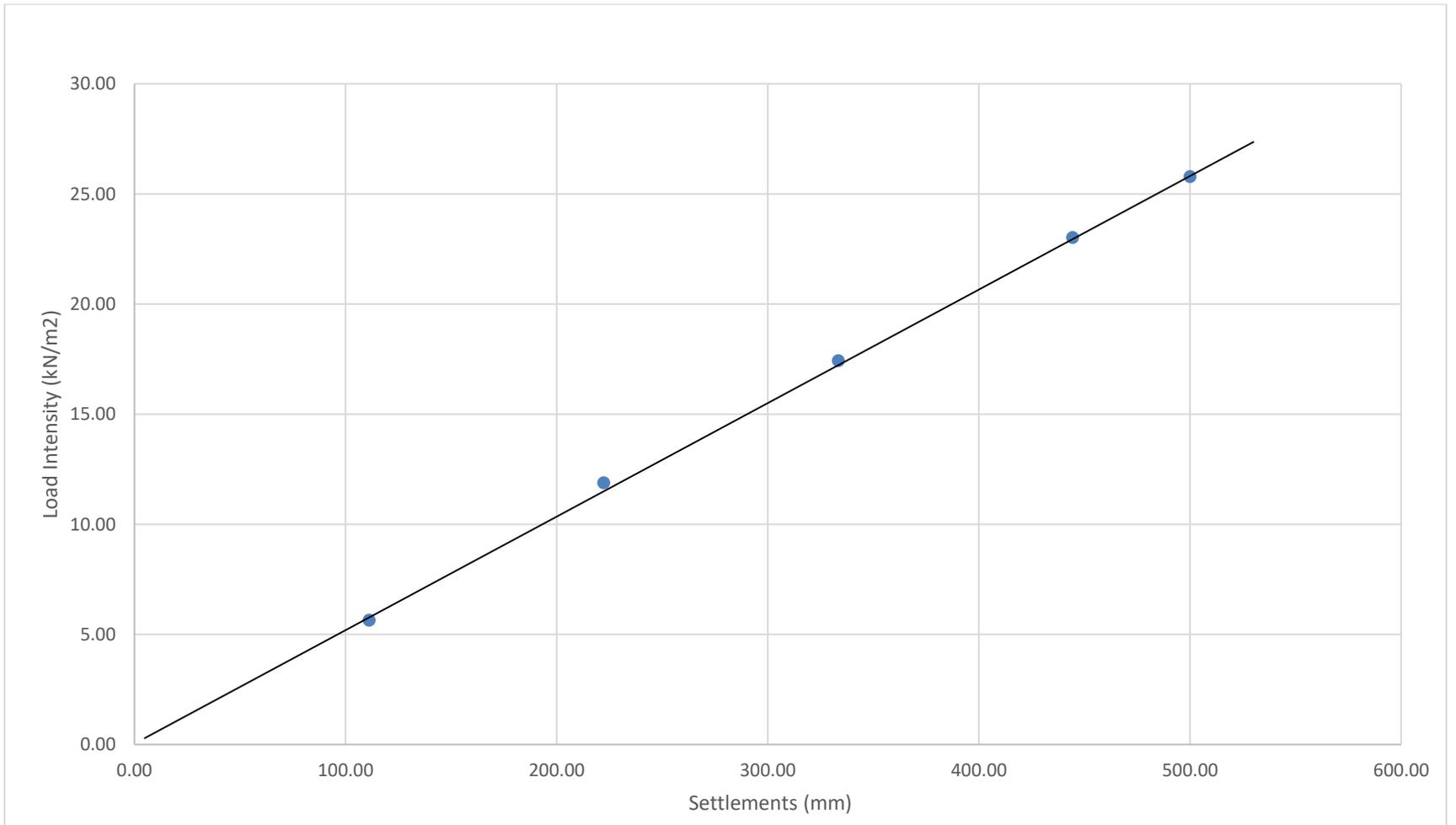
Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
29.01.2026	3.00	0 KN	0.00	0.00	0.00	
	1.00	10.00 KN	5.80	6.01	5.91	
	2.25	10.00 KN	5.81	6.03	5.92	
	4.00	10.00 KN	5.82	6.04	5.93	
	6.25	10.00 KN	5.84	6.05	5.95	
	9.00	10.00 KN	5.84	6.05	5.95	
	16.00	10.00 KN	5.85	6.06	5.96	
	25.00	10.00 KN	5.86	6.07	5.97	
	60.00	10.00 KN	5.86	6.07	5.97	
	CPLT Rebound					
	4.05	0.00 KN	5.51	5.80	5.655	
	1.00	20.00 KN	11.56	12.83	12.20	
	2.25	20.00 KN	11.58	12.84	12.21	

	4.00	20.00 KN	11.59	12.85	12.22	
	6.25	20.00 KN	11.60	12.85	12.23	
	9.00	20.00 KN	11.61	12.86	12.24	
	16.00	20.00 KN	11.61	12.86	12.24	
	25.00	20.00 KN	11.62	12.87	12.25	
	60.00	20.00 KN	11.62	12.87	12.25	
	Rebound					
	5.10	0.00 KN	11.28	12.50	11.89	
	1.00	30.00 KN	17.01	18.17	17.59	
	2.25	30.00 KN	17.02	18.19	17.61	
	4.00	30.00 KN	17.03	18.20	17.62	
	6.25	30.00 KN	17.04	18.21	17.63	
	9.00	30.00 KN	17.04	18.22	17.63	
	16.00	30.00 KN	17.04	18.23	17.64	
	25.00	30.00 KN	17.05	18.23	17.64	
	60.00	30.00 KN	17.05	18.24	17.65	
	Rebound					
	6.15	0.00 KN	16.85	18.01	17.43	
	1.00	40.00 KN	23.02	23.90	23.46	
	2.25	40.00 KN	23.04	23.92	23.48	
	4.00	40.00 KN	23.05	23.93	23.49	
	6.25	40.00 KN	23.05	23.94	23.50	
	9.00	40.00 KN	23.06	23.94	23.50	
	16.00	40.00 KN	23.06	23.95	23.51	
	25.00	40.00 KN	23.07	23.96	23.52	
	60.00	40.00 KN	23.07	23.96	23.52	
	Rebound					
	7.2	0.00 KN	22.62	23.43	23.03	
	1.00	45.00 KN	27.40	27.60	27.50	
	2.25	45.00 KN	27.40	27.60	27.50	
	4.00	45.00 KN	27.41	27.60	27.51	
	6.25	45.00 KN	27.41	27.60	27.51	
	9.00	45.00 KN	27.41	27.60	27.51	
	16.00	45.00 KN	27.41	27.60	27.51	

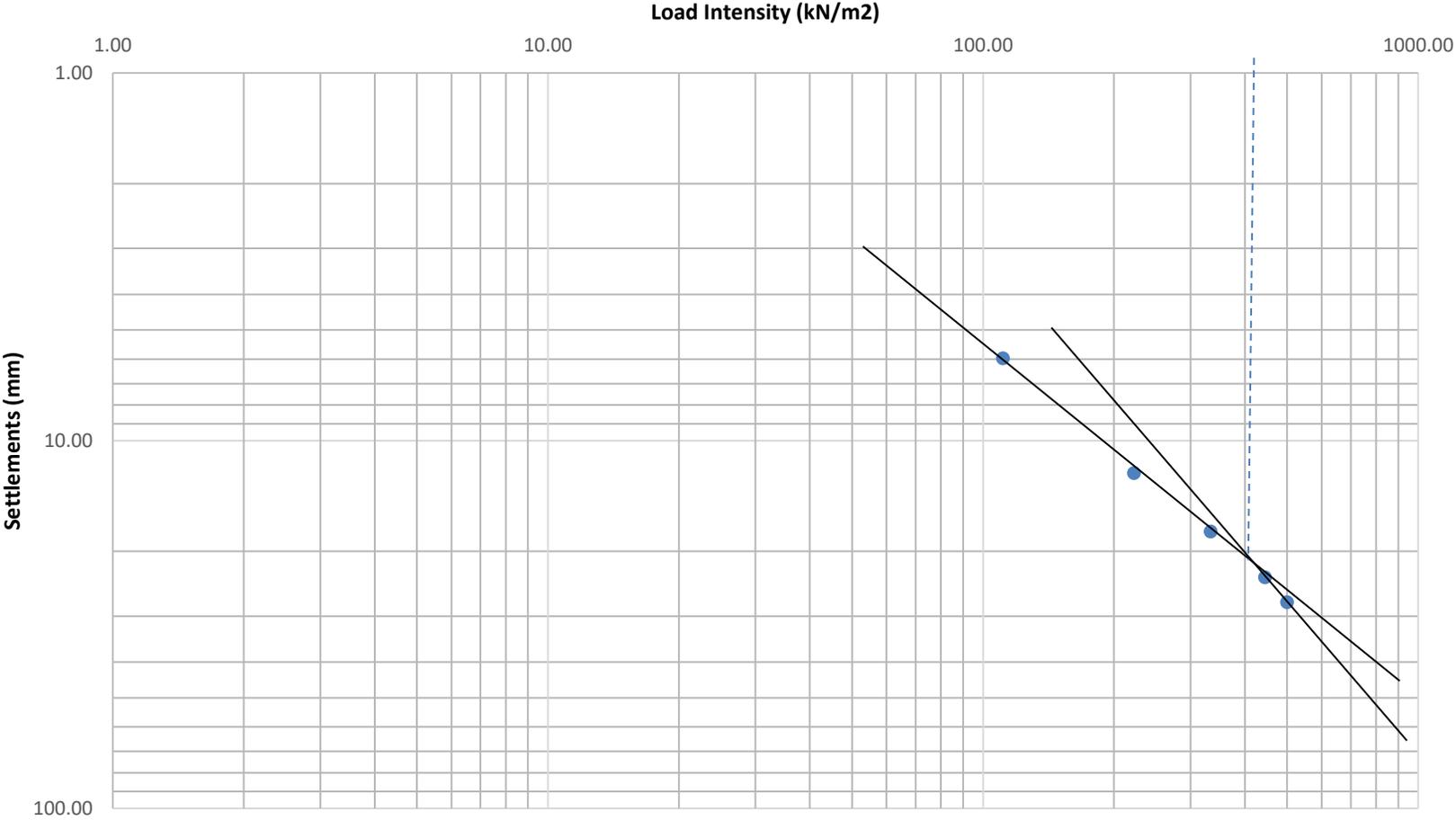
25.00	45.00 KN	27.41	27.60	27.51	
60.00	45.00 KN	27.41	27.60	27.51	
Rebound					
8.25	0.00 KN	25.60	25.99	25.80	

Load settlement curve





Load Vs Settlement Curve



CPLT - 06

Location

Test location is identified by the representative of the clients where plate load test is performed.

SR. No.	PLT Designation	Location
1	CPLT-6	Latitude : 27.174523, Longitude : 95.351663

Observations

Plate Load Tests on 600 mm X 600 mm X 25 mm plate at 3.00m depth below existing ground level was conducted. Test result in form of Load Settlement curve is given in figure enclosed.

Load-settlement curves are drawn on simple arithmetic scale and log-log scale.

Load on Plate (KN)	Loading Intensity (KN/m ²)	Gross settlement (mm)
10.00 KN	55.56	5.86
20.00 KN	111.11	9.83
30.00 KN	166.67	16.00
40.00 KN	222.22	18.41
45.00 KN	277.78	22.79

Further the load was released to 0 (Zero) to measure reverse settlement under rebound pressure. The load intensity with respect to reverse settlement has been given below and graph has been plotted with respective stress condition.

Applied Loading Intensity (KN/m ²)	Loading Intensity (KN/m ²)	Gross settlement (mm)
55.56	0.00	4.69
111.11	0.00	9.33
166.67	0.00	15.37
222.22	0.00	17.92
277.78	0.00	22.19

The bearing pressure vs. settlement curve plotted on the arithmetic scale and logarithmic scale for the test carried out at site form part of the report.

TYPICAL CALCULATION FOR PLT

The Ultimate Load Criteria by Plate Load Test

- a) 25mm settlement of Plate
- b) Yield point
- c) Maximum Applied Load

Since distinct shear failure has not occurred, the final load is taken as ultimate bearing capacity.
Hence safe bearing pressure of soil as per IS: 1888.

$$q_s = \frac{q_{nf}}{F}$$

Where q_s = Safe Bearing Capacity, and

Q_{nf} = Ultimate Bearing Capacity

q_{nf} = Ultimate bearing capacity: = 310 KN/Sq.mtr.

F = Factor of safety = 2.5

Result: $210/2.5 = 84.0$ KN/sqr.Metre

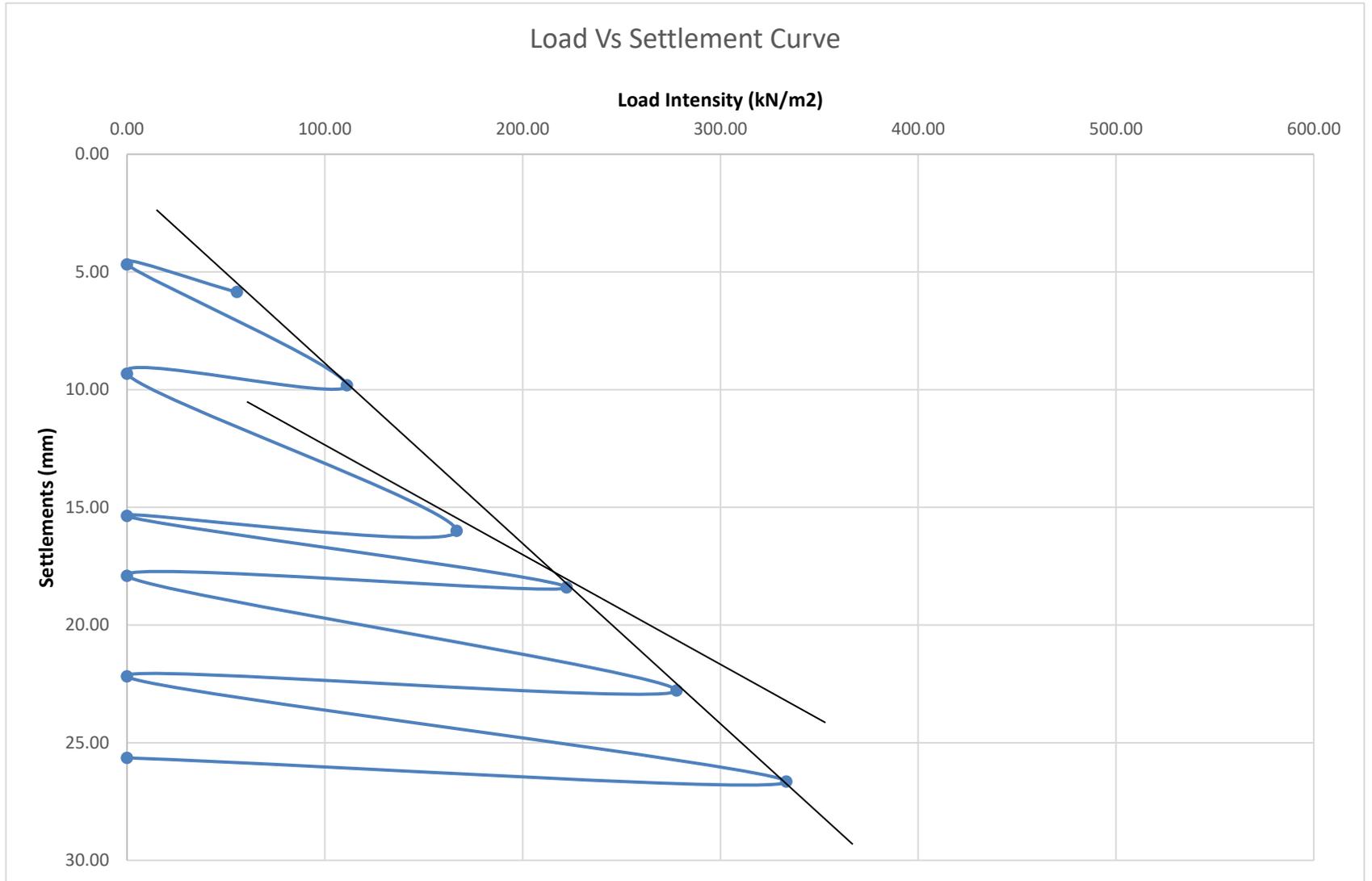
Table: Field Observation

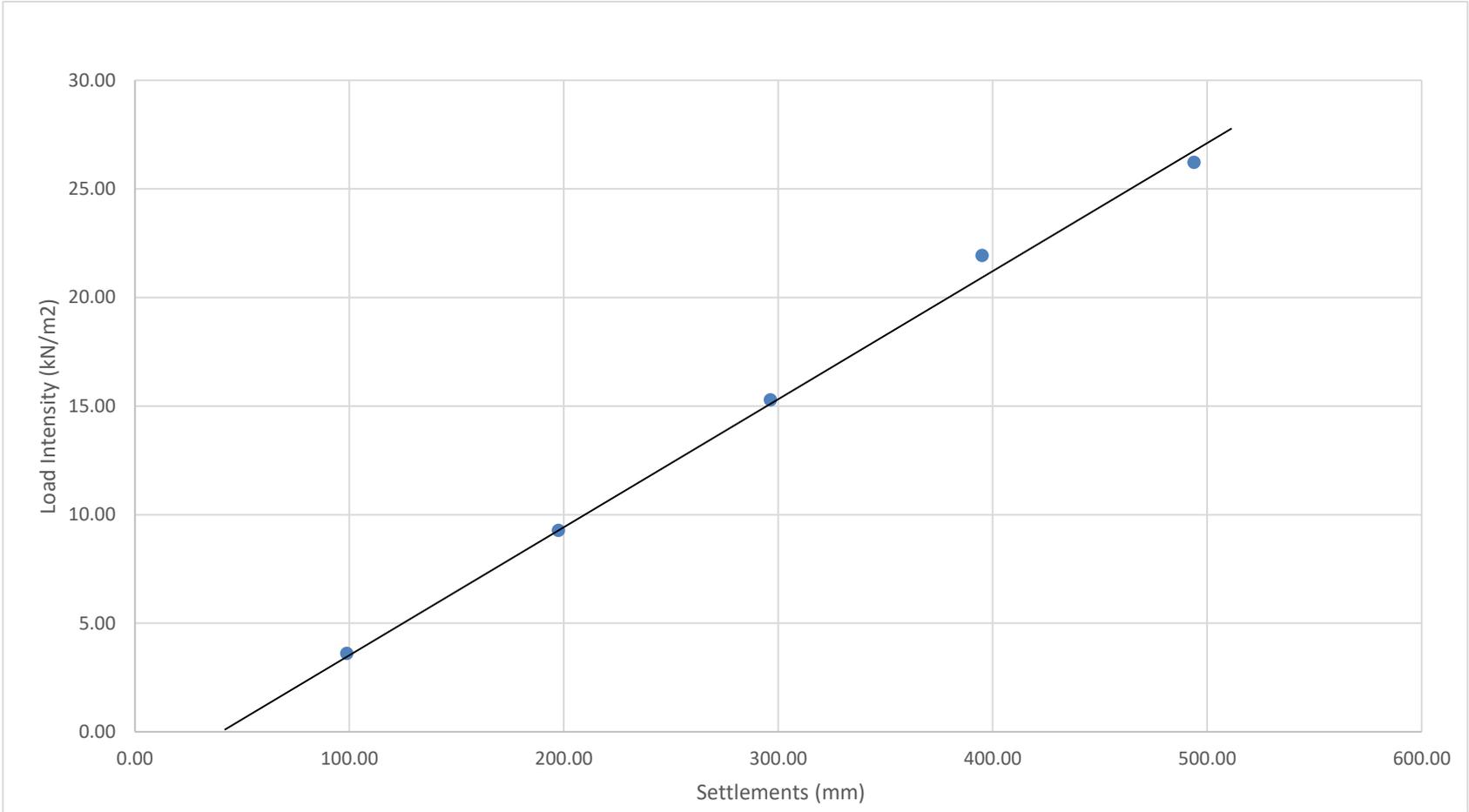
Date	Time (min)	Load Applied	Dial Guage Reading (mm)		Mean (mm)	Remarks
			A	B		
04.02.2026	13 PM	0 KN	0.00	0.00	0.00	
	1.00	20.00 KN	3.75	7.91	5.83	
	2.25	20.00 KN	3.75	7.91	5.83	
	4.00	20.00 KN	3.76	7.91	5.84	
	6.25	20.00 KN	3.76	7.92	5.84	
	9.00	20.00 KN	3.76	7.92	5.84	
	16.00	20.00 KN	3.77	7.92	5.85	
	25.00	20.00 KN	3.78	7.92	5.85	
	60.00	20.00 KN	3.78	7.93	5.86	
CPLT Rebound						
	2.05	0.00 KN	2.87	6.50	4.69	
	1.00	40.00 KN	8.86	10.74	9.80	
	2.25	40.00 KN	8.86	10.74	9.80	
	4.00	40.00 KN	8.86	10.75	9.81	

	6.25	40.00 KN	8.87	10.75	9.81	
	9.00	40.00 KN	8.87	10.76	9.82	
	16.00	40.00 KN	8.87	10.76	9.82	
	25.00	40.00 KN	8.88	10.76	9.82	
	60.00	40.00 KN	8.88	10.77	9.83	
	Rebound					
	3.10	0.00 KN	8.45	10.21	9.33	
	1.00	60.00 KN	15.14	16.80	15.97	
	2.25	60.00 KN	15.14	16.80	15.97	
	4.00	60.00 KN	15.15	16.81	15.98	
	6.25	60.00 KN	15.16	16.82	15.99	
	9.00	60.00 KN	15.16	16.82	15.99	
	16.00	60.00 KN	15.16	16.83	16.00	
	25.00	60.00 KN	15.17	16.83	16.00	
	60.00	60.00 KN	15.17	16.83	16.00	
	Rebound					
	4.15	0.00 KN	14.63	16.11	15.37	
	1.00	80.00 KN	18.06	18.71	18.39	
	2.25	80.00 KN	18.06	18.72	18.39	
	4.00	80.00 KN	18.07	18.72	18.40	
	6.25	80.00 KN	18.07	18.72	18.40	
	9.00	80.00 KN	18.07	18.72	18.40	
	16.00	80.00 KN	18.07	18.73	18.40	
	25.00	80.00 KN	18.08	18.73	18.41	
	60.00	80.00 KN	18.08	18.73	18.41	
	Rebound					
	5.20	0.00 KN	17.65	18.18	17.92	
	1.00	100.00 KN	21.69	23.85	22.77	
	2.25	100.00 KN	21.69	23.85	22.77	
	4.00	100.00 KN	21.69	23.85	22.77	
	6.25	100.00 KN	21.69	23.85	22.77	
	9.00	100.00 KN	21.69	23.86	22.775	
	16.00	100.00 KN	21.69	23.86	22.775	
	25.00	100.00 KN	21.70	23.87	22.785	
	60.00	100.00 KN	21.70	23.87	22.785	

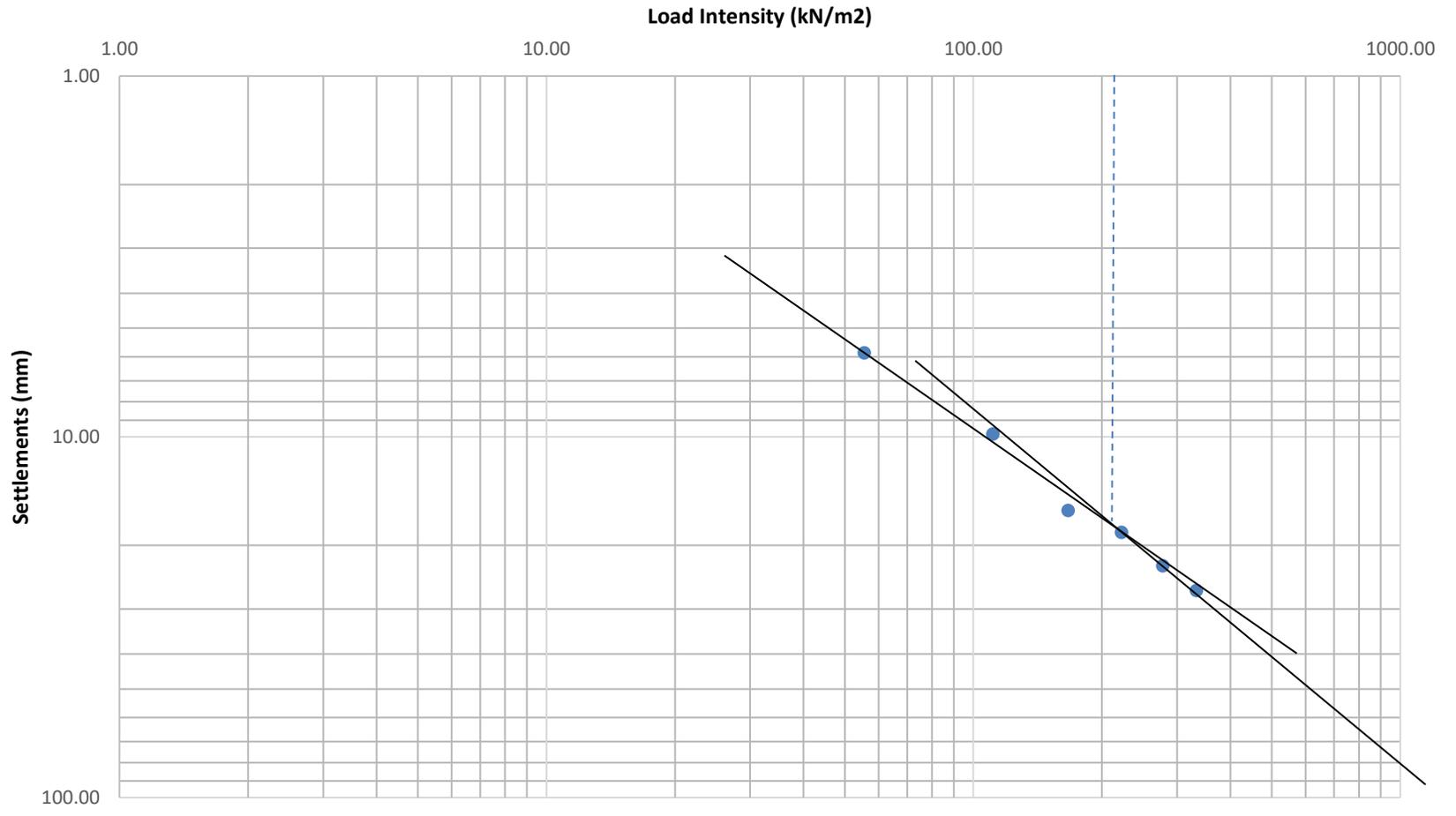
Rebound						
	6.25	00.00 KN	21.08	23.30	22.19	
	1.00	120.00 KN	27.56	25.74	26.65	
	2.25	120.00 KN	27.56	25.74	26.65	
	4.00	120.00 KN	27.56	25.74	26.65	
	6.25	120.00 KN	27.56	25.74	26.65	
	9.00	120.00 KN	27.56	25.74	26.65	
	16.00	120.00 KN	27.56	25.74	26.65	
	25.00	120.00 KN	27.56	25.74	26.65	
	60.00	120.00 KN	27.56	25.74	26.65	
Rebound						
	7.30	00.00 KN	26.51	24.78	25.645	

Load settlement curve





Load Vs Settlement Curve



PROJECT

M/s. Projects & Development India Limited (PDIL) is planning the development of a Fertilizer Manufacturing Facility at Namrup, Assam. The proposed development comprises an Ammonia–Urea Fertilizer Plant for M/s Assam Valley Fertilizer and Chemical Company Limited (AVFCCL).

The geotechnical investigation were carried out at the project site by M/s G S Geo Environs Pvt. Ltd. on behalf of M/s PDIL. The scope of field investigation, including borehole locations, depth of exploration, and in-situ testing program, was briefed and coordinated at site by the site engineer of AVFCCL. M/S G S Geoenviron were helped by M/S SAKA Design and Consulting Pvt. Ltd. in calculating bearing capacity assessments and shallow foundation checks in accordance with IS 6403.

The purpose of this Geotechnical Design study is to evaluate the bearing capacity of the subsurface strata at the proposed fertilizer plant site and to recommend appropriate Safe Bearing Capacity (SBC) values for shallow foundation design.

In this section the key studies are:

- To review and interpret the available geotechnical investigation data.
- To correlate SPT, DCPT, and Plate Load Test results.
- To classify the site into engineering zones based on soil competency.
- To calculate Net Ultimate and Net Safe Bearing Capacity as per IS 6403.
- To recommend Safe Bearing Capacity values for foundation design.
- To assess settlement behavior based on Plate Load Test data.
- To provide engineering recommendations for safe and economical foundation design.

In the present studies the following limitations are likely to apply:

- (1) The recommended safe bearing capacity values are applicable for foundations under static loading conditions only.
- (2) The analysis is based on boreholes, SPT, DCPT, and PLT data carried out at discrete locations. Subsurface conditions between investigation points may vary.
- (3) Groundwater conditions have been considered based on the available data at the time of investigation.
- (4) Bearing capacity calculations have been carried out as per IS 6403 using conservative assumptions (including cohesion = 0 and local shear failure conditions where applicable).
- (5) Recommendations are valid for the soil strata encountered during investigation. Any variation observed during construction should be reported for reassessment.

SUBSURFACE INVESTIGATION

The subsurface investigation comprised Boreholes (SPT), Dynamic Cone Penetration Tests (DCPT), Engineering properties of soil samples and Plate Load Tests (PLT). The investigations were conducted in accordance with relevant Indian Standards.

- Applicable Codes:
- IS 2131 – Standard Penetration Test (SPT)
- IS 4968 (Part I) – 1976 (RA 2007) – Dynamic Cone Penetration Test (DCPT)
- IS 6403 – Determination of Bearing Capacity of Shallow Foundations
Founding at deeper levels or on rock where feasible.

ENGINEERING PROPERTIES OF SOIL

The results of soil samples are given in the test reports .

The Various contents of soil samples varies as follows

Bulk Density varies from 1.921 to 2.29, Dry Density varies from 1.711 to 2.08 and Specific Gravity 2.63 to 2.68

Void Ratio varies between 0.34 and 0.55

Hydrometer Analysis (%) varies between 5 and 26

Direct Shear Test: angle of friction varies from 28° to 38°, and Cohesion from 0.31 to 1.2

Unconfined compressive test (kg/cm²) varies from 1.98 to 2.9

Unconsolidated Undrained test (kg/cm²) Qu: 2.8 to 3.9 and C: 1.1 to 1.9

Consolidated Undrained Test (kg/cm²) varies from Qu: 2.8 to 3.9, C: 1.4 to 1.9

Swelling Pressure Test (kg/cm²) varies from 2 and 28

Optimum Moisture Content (%) varies from 10 to 12

Maximum Dry Density (gm/cc) varies from 1.83 to 1.95

CBR Test at 2.5 mm soaked condition (%) varies from 10 to 16.5

CBR Value at 5mm soaked condition (%) varies from 9.5 to 13.5

Shrinkage Limit Test (%) varies from 2 to 18

INTERPRETATION

The Standard Penetration Test (SPT) is one of the most widely used in-situ tests for evaluating the engineering properties of soil. The test is conducted in accordance with **IS 2131**.

Higher N-values indicate denser or stiffer soil strata, while lower N-values represent loose or soft deposits.

In granular soils, SPT N-values are directly correlated with relative density and angle of internal friction. In cohesive soils, they indicate consistency and undrained shear strength.

Refusal is generally considered when:

- N-value exceeds 100 blows, or
- Penetration is negligible under continued hammering
-

SPT RESULTS OVERVIEW

The SPT results from boreholes across the site indicate significant variation in soil strata within the upper 3.0 m to 4.5 m depth, underlain by dense gravelly material and fractured rock.

- a) Upper Layer (1.5 m – 3.0 m Depth)
- N-values range between **3 to 7**
 - Soil type: Grey clay / Sandy clay
 - Interpretation: **Soft to medium stiff consistency**
 - Engineering implication: Settlement-prone layer
- b) Intermitted Layer (3 m – 5.0 m Depth)
- N-values range between **18 to 87**
 - Soil type: Silty sand with gravel / Gravelly soil
 - Interpretation: **Medium dense to dense**
 - Engineering implication: Improved bearing resistance
- c) Fractured Rock Layer (5.0 m – 11.0 m Depth)
- N-values range between **90 to >100**
 - Soil type: Fractured rock with gravel
 - Interpretation: **Very dense / Highly resistant**
 - Engineering implication: High bearing capacity
- d) Competent Rock (>11 m Depth)
- N-value **>100 (Refusal)**
 - Interpretation: Competent rock bed

For the detailed SPT test data please refer to the Appendix A and Summary of the SPT interpretation is shown in the below table.

Table 1: Summary of SPT Interpretation

Depth Range	Typical N-Value	Soil Type	Consistency/Density	Engineering Significance
1.5 - 3.0 m	3-7	Sandy Clay often with pellets	Soft to Medium Stiff (1.75-1.77)	Settlement-prone
3.0 – 5.0 m	18-87	Silty Sand with Gravel	Medium Dense to Dense (1.84-1.86)	Moderate bearing capacity
5.0 – 11.0 m	90 - >100	Fractured Rock	Very Dense (1.88-1.90)	High bearing resistance
>11.0 m	>100	Competent Rock	Refusal	Rock bearing stratum

CORRELATION WITH PLATE LOAD TEST RESULTS

- Locations BH-9 and BH-10 show lower N-values in upper layers, consistent with PLT-1 results (SBC \approx 82 kN/m²).
- Boreholes BH-03, BH-07 show higher N-values and correspond with PLT-3 (SBC \approx 148.8 kN/m²).
- Intermediate locations match PLT-2 (SBC \approx 125 kN/m²).

This strong correlation validates the interpretation of soil zonation across the site.

ENGINEERING INTERPRETATION

- The upper clayey layer (N = 3–7) governs settlement behavior for shallow foundations.
- Presence of dense gravel and fractured rock below 3.0–4.0 m significantly improves load-carrying capacity.
- Variation in SPT values confirms non-uniform subsurface conditions across the site.
- Conservative design approach ($c = 0$ and local shear condition) adopted in IS 6403 calculations ensures safety in weaker zones.
- SPT refusal depths (9.5 m – 12.5 m) indicate competent rock formation

DESIGN IMPLICATIONS

- For shallow foundations founded within upper 2.0 m, design should consider lower N-values (Zone A condition).
- In gravelly/dense zones, improved SBC may be adopted after confirming soil condition during excavation.

HEAVY STRUCTURES MAY BENEFIT FROM

The Dynamic Cone Penetration Test (DCPT) is an in-situ penetration test conducted in accordance with **IS 4968 (Part I) – 1976 (Reaffirmed 2007)**. It is used to assess the relative resistance of soil and weathered rock strata.

DCPT is particularly useful for:

- Identifying depth to hard strata
- Locating boulders and weathered rock
- Rapid profiling of subsurface strength variation
- Correlating with SPT and rock head levels

Compared to SPT, DCPT is more sensitive to localized obstructions such as gravel pockets and boulders.

OBSERVED DCPT BEHAVIOR AT SITE

The DCPT results across the site indicate

- Erratic penetration resistance up to approximately **4.5 m depth** (Ref figure below extracted from lab report)
- Increasing blow counts with depth
- Refusal generally encountered between **2.7 m and 6.6 m depth**

DYNAMIC CONE PENETRATION TESTS

IS: 4968-Part-2-1976, RA-2007

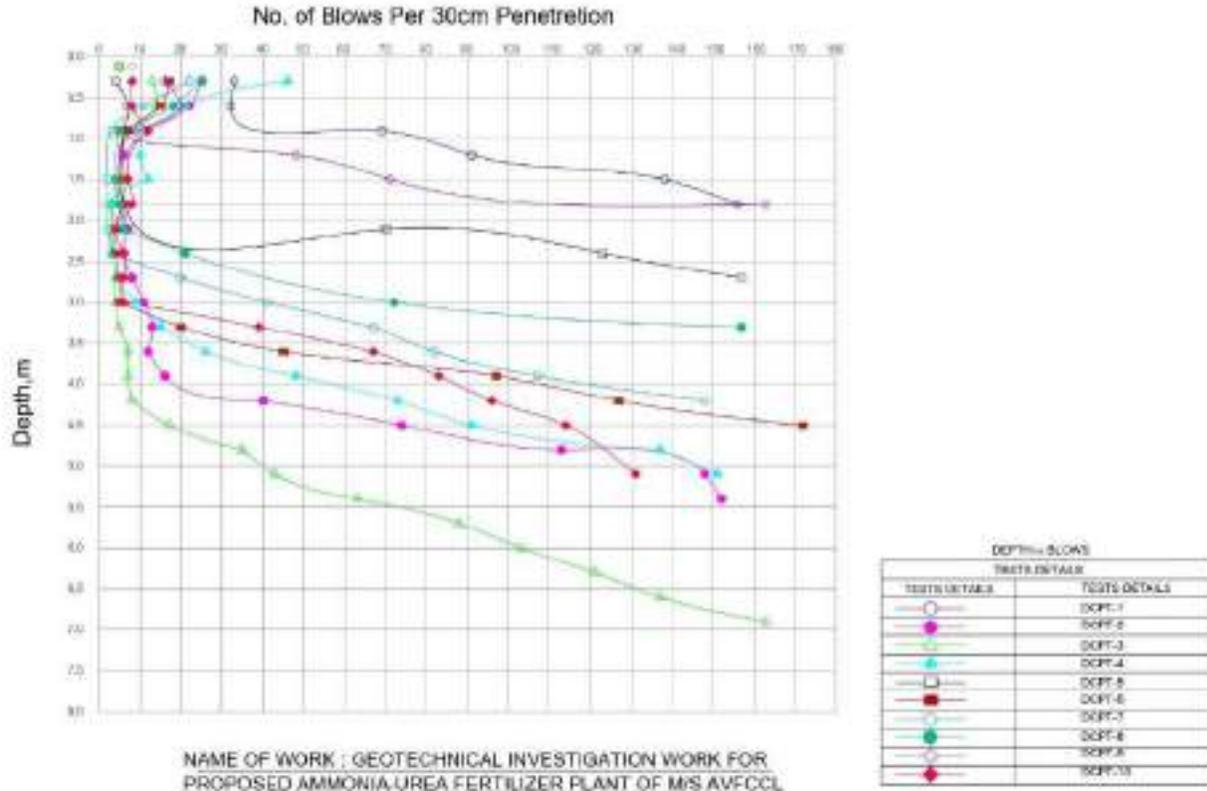


Figure 2-1: DCPT interpretation (Source: Lab report)

Summary of the lab test data is listed in the below table

Table 2: DCPT test data

Test Designation	Northing	Easting	Depth (m)	No. of blows (N)	Remarks
DCPT-01	N-27°10'36"	E-95°21'20"	0.3	33	
DCPT-01	N-27°10'36"	E-95°21'20"	0.6	32	
DCPT-01	N-27°10'36"	E-95°21'20"	0.9	69	
DCPT-01	N-27°10'36"	E-95°21'20"	1.2	91	
DCPT-01	N-27°10'36"	E-95°21'20"	1.5	138	
DCPT-01	N-27°10'36"	E-95°21'20"	1.8	156	
DCPT-02	N-27°10'30"	E-95°21'23"	0.3 - 3.9	25 down to 16	Various blows
DCPT-02	N-27°10'30"	E-95°21'23"	5.4	152	
DCPT-03	N-27°10'35"	E-95°21'11"	0.3 - 6.3	13 down to 121	Various blows
DCPT-03	N-27°10'35"	E-95°21'11"	6.6 - 6.9	163	Refusal
DCPT-04	N-27°10'26"	E-95°21'22"	0.3 - 4.8	46 down to 137	Various blows
DCPT-04	N-27°10'26"	E-95°21'22"	5.1	151	
DCPT-05	N-27°10'42"	E-95°20'58"	0.3 - 1.8	4 to 6	
DCPT-05	N-27°10'42"	E-95°20'58"	2.1	70	
DCPT-05	N-27°10'42"	E-95°20'58"	2.4	123	
DCPT-05	N-27°10'42"	E-95°20'58"	2.7 - 3	-	Refusal
DCPT-06	N-27°10'36"	E-95°21'04"	0.3 - 3.9	17 to 97	
DCPT-06	N-27°10'36"	E-95°21'04"	4.2 - 4.5	172	Refusal
DCPT-07	N-27°10'30"	E-95°21'11"	0.3 - 3.9	22 to 107	
DCPT-07	N-27°10'30"	E-95°21'11"	4.2 - 4.5	-	Refusal
DCPT-08	N-27°10'30"	E-95°21'05"	0.3 - 2.7	25 to 157	
DCPT-08	N-27°10'30"	E-95°21'05"	3 - 3.3	-	Refusal
DCPT-10	N-27°10'28"	E-95°20'57"	0.3 - 4.5	8 to 114	
DCPT-10	N-27°10'28"	E-95°20'57"	4.8 - 5.1	158	Refusal

Key observation from the DCPT data

- In the upper 3.5 m depth, blow counts vary significantly, indicating heterogeneous soil conditions.
- Rapid increase in blow count beyond 2.0–3.0 m depth suggests transition to gravelly soil and weathered rock.
- Refusal occurred much earlier in DCPT compared to SPT.

COMPARISON OF DCPT AND SPT REFUSAL DEPTHS

Key interpretations from the available test data, along with the comparison between DCPT and SPT, are presented in the table below

Table 3: Comparison table of refusal depth based on SPT and DCPT

General location (m)	DCPT Refusal depth (m)	SPT Refusal Depth	Interpretation
Northwest	9.5	2.7	Weathered rock / Boulder layer
West	12.0	4.8	Dense gravel / Rock fragments
Southwest	12.5	3.0	Boulder zone
Central	11.0	6.6	Hard transition layer
East	4.0	1.5	Shallow hard stratum

- DCPT refusal depth represents the top of weathered rock or boulder layer.
- SPT refusal depth represents the competent rock bed.

The difference between DCPT and SPT refusal depths confirms the presence of a fractured rock transition zone. Stratigraphic Interpretation Based on DCPT is given in below table

Table 4: Stratigraphy based on DCPT

Depth Range	DCPT Blow Trend	Interpretation	Engineering Significance
0 – 3.5 m	Variable (Low to Moderate)	Clay / Sandy Soil	Settlement-prone zone
3.5 – 5.0 m	Rapid increase	Gravelly Soil	Improved bearing
2.7 – 6.6 m	Refusal	Weathered Rock / Boulder Layer	Hard stratum
>6.6 m	—	Competent Rock (confirmed by SPT)	Rock foundation possible

CORRELATION WITH PLATE LOAD TEST RESULTS

- PLT-1 location (Zone A) corresponds to deeper rock head and softer upper soil.
- PLT-3 location shows shallower hard layer, matching early DCPT refusal.
- Higher bearing capacity values in PLT-3 align with dense gravel/rock proximity indicated by DCPT

ENGINEERING INTERPRETATION

- a) The erratic DCPT response in upper layers confirms soil variability.
- b) Early refusal indicates presence of dense gravel pockets and boulders.
- c) The weathered rock interface is shallow in certain zones (2.7–3.0 m).
- d) DCPT results support zoning of site into three competency zones (A, B, and C).
- e) Shallow hard layers may cause differential settlement if not uniformly encountered across foundation footprint

DESIGN IMPLICATIONS

- a) Foundations encountering shallow refusal may rest on weathered rock.
- b) Variable depth to refusal suggests careful inspection during excavation.
- c) Where DCPT refusal is shallow (<3 m), higher SBC may be safely adopted after field verification.
- d) Differential founding levels must be avoided to prevent uneven settlement.

The DCPT results confirm:

- Presence of heterogeneous upper soil layer.
- Transition to gravelly soil and weathered rock between 2.7 m to 6.6 m.
- Competent rock exists at deeper levels as confirmed by SPT refusal.
- The DCPT findings strongly support the Safe Bearing Capacity zoning adopted in this report.

PLATE LOAD TEST INTERPRETATION

Three Plate Load Tests were conducted at representative locations. PLT-3 location exhibited significantly higher stiffness compared to PLT-1.

Test location bearing	Estimated safe capacity (kN/m ²)
PLT-1	82
PLT-2	125
PLT-3	148.8

- Grey clay encountered at BH-9 and BH-10 corresponds with PLT-1 behavior and represents the most settlement-prone zone.
- For light structures, a conservative **SBC of 80-85 KN/m²** can be used across the site. In the stiffer gravelly zones (near PLT-3), this can be safely increased to **110 KN/m²**

SUMMARY OF GEOTECHNICAL PARAMETER

Stratigraphy and the geotechnical design parameters-based borehole logs, SPT values, and DCPT results are summarized in the below tables

Table 5: Geotechnical design parameters

Stratum	Depth Range	Typical N-Value	Consistency/Density
Fill / Topsoil	0.0 – 1.0m	N/A	Loose / Variable
Clay / Sand	1.5 – 3.0m	3 – 7	Soft to Medium Stiff
Gravelly Soil	3.0 – 5.0m	18 – 87	Medium Dense to Very Dense

Stratum	Depth Range	Typical N-Value	Consistency/Density
Fractured Rock	5.0 – 11.0m	90 – >100	Very Dense / Refusal
Bedrock	>11.0m	>100	Competent Rock

Table 6: Summary of site with recommended SBC

Design Parameter	Zone A (Softest)	Zone B (Intermediate)	Zone C (Stiffest)
Associated Locations	BH-9, BH-10, PLT-1	BH-11, BH-12, BH-18, PLT-2	BH-03, BH-07, PLT-3
Dominant Soil Type	Grey Clay / Silt	Silty Sand with Gravel	Sandy Soil with Gravels
Safe Bearing Capacity (KN/m ²)*	80 kN/m ²	120 kN/m ²	140 kN/m ²
Estimated Settlement at SBC	~10–12 mm	~8–10 mm	~6–8 mm
Depth to Bedrock/Refusal	9.0m – 13.5m	4.0m – 13.5m	3.5m – 5.0m
Dominant Soil Type	Grey Clay / Silt	Silty Sand with Gravel	Sandy Soil with Gravels
Safe Bearing Capacity (KN/m ²)*	80 kN/m ²	120 kN/m ²	140 kN/m ²

*Recommended based on bearing calculation and available PLT test results

BEARING CAPACITY CALCULATION AS PER IS 6403

The bearing capacity calculations have been carried out in accordance with **IS 6403:1981 – Determination of Bearing Capacity of Shallow Foundations**, considering **local shear failure** condition for conservative design.

Local shear failure has been adopted due to:

- Presence of soft to medium stiff clay in upper layers (SPT N = 3–7)
- Variability in subsurface strata
- Conservative design requirement for industrial structures

Soil Parameters (Zone A/B): SPT N-value: 7 (Typical at 1.5m - 3.0m depth).

Angle of Internal Friction (Φ') =	28.0	degrees	Based on BS 8002: 2015
Cohesion (c) =	0		(Conservatively)
Unit weight (γ) =	18	kN/m ³	As per BS 8002
Modified Friction for Local Shear ($\Phi'm$) =	$\Phi'm =$	$\tan^{-1}(2/3*\tan\Phi')$ 20	degrees
Bearing Capacity Factors (for $\Phi'm = 20$ degree)	$N_q =$	6.4	
	$N_\gamma =$	5.39	
Square Footing Shape Factors:			
	$S_q =$	1.2	

$$SY = 0.8$$

Water table correction (W') = 0.5
 (Wors
 t-case
 submerge
 d)

Detailed Calculation

Table:

Summarized the results for different footing sizes and depths in table below

As per IS 6403, the Net Ultimate Bearing Capacity for local shear is calculated using below formula:

$$q_{ult} = \frac{2}{3} c N_c' S_c d_c i_c + q (N_q' - 1) S_q d_q i_q + 0.5 B \gamma N_\gamma' S_\gamma d_\gamma i_\gamma \omega'$$

Table 7: Bearing calculation based on IS 6403

Depth (Df)	Width (B) kN/m ²	Net Ultimate (qnu), kN/m ²	Net Safe (qns),
1.5	1.0 m	236	94
	1.5 m	233	93
	2.0 m	236	95
	2.5 m	242	97
	3 m	250	100
	3.5 m	258	103
	4 m	266	106
2.0 m	1.0 m	324	130
	1.5 m	312	125
	2.0 m	311	124
	2.5 m	314	125
	3 m	319	128
	3.5 m	326	130
	4 m	333	133
2.5 m	1.0 m	421	168
	1.5 m	396	159
	2.0 m	389	156
	2.5 m	388	155
	3 m	391	156
	3.5 m	396	158
	4 m	402	161
3.0 m	1.0 m	526	210
	1.5 m	486	195
	2.0 m	471	189
	2.5 m	466	186
	3 m	466	186
	3.5 m	469	187
	4 m	473	189
3.5 m	1.0 m	640	256
	1.5 m	582	233
	2.0 m	558	223
	2.5 m	547	219
	3 m	543	217
	3.5 m	544	217
	4 m	546	218

The calculated safe bearing capacity:

- Closely matches PLT-2 and PLT-3 results.
- Is slightly higher than PLT-1 (Zone A), which corresponds to softer grey clay.
- Validates the recommended conservative SBC of **80–85 kN/m²** for general site conditions.
- Allows increase up to **110 kN/m²** in stiffer gravelly zones.

CONCLUSION

- The bearing capacity evaluation as per IS 6403 under local shear failure condition provides conservative and reliable results. The analytical calculations are consistent with Plate Load Test observations and SPT interpretation, thereby validating the adopted Safe Bearing Capacity values for foundation design of the proposed fertilizer plant.
- The site consists of variable upper clayey strata underlain by gravelly soil and fractured rock. Using conservative parameters ($c = 0$ and local shear condition) ensures safe design. A conservative SBC of 80–85 kN/m² is recommended for general construction.
- In stiffer gravelly zones, SBC may be increased to 110 kN/m².
- Special care required in Grey Clay zones due to settlement susceptibility

APPENDIX A: SPT TEST DATA

Borehole ID	Northing	Easting	From Depth (m)	To Depth (m)	SPT N-Value	Soil Description
BH-03	27°10'36"	95°21'22"	1.5	1.95	5	Brown Sandy Soil
BH-03	27°10'36"	95°21'22"	3	3.45	125	Brown Sandy Soil with gravels
BH-05	27°10'36"	95°21'22"	1.5	1.95	5	Medium dense grey clay
BH-05	27°10'36"	95°21'22"	3	3.45	4	Medium dense grey clay
BH-05	27°10'36"	95°21'22"	4.5	4.95	6	Medium dense grey clay
BH-05	27°10'36"	95°21'22"	6	6.45	112	Medium dense grey clay with gravel
BH-06	27°10'36"	95°21'22"	1.5	1.95	3	Medium dense grey clay
BH-06	27°10'36"	95°21'22"	3	3.45	6	Medium dense grey clay
BH-06	27°10'36"	95°21'22"	4.5	4.95	120	Medium dense grey clay
BH-07	27°10'36"	95°21'22"	1.5	1.95	5	Grey Clay
BH-07	27°10'36"	95°21'22"	3	3.45	6	Grey Clay
BH-07	27°10'36"	95°21'22"	4.5	4.95	110	Grey Clay with gravel
BH-9	N-27°10'29"	E-95°21'19"	0	0.5	-	Filling material
BH-9	N-27°10'29"	E-95°21'19"	1.5	1.95	7	Grey clay
BH-9	N-27°10'29"	E-95°21'19"	3	3.45	87	Grey clay with gravels
BH-9	N-27°10'29"	E-95°21'19"	3.45	4.5	92	Fractured rock with gravel
BH-9	N-27°10'29"	E-95°21'19"	4.5	6	95	Fractured rock with gravel
BH-9	N-27°10'29"	E-95°21'19"	6	7.5	97	Fractured rock with gravel
BH-9	N-27°10'29"	E-95°21'19"	7.5	9	99	Fractured rock with gravel
BH-9	N-27°10'29"	E-95°21'19"	9	10.5	>100	Refusal as N>100 rock
BH-10	N-27°10'24"	E-95°21'17"	0	0.5	-	Filling material
BH-10	N-27°10'24"	E-95°21'17"	1.5	1.95	7	grey dense clay
BH-10	N-27°10'24"	E-95°21'17"	3	3.45	100	Sand gravel
BH-10	N-27°10'24"	E-95°21'17"	3.45	13.5	-	Fractured rock / Rock bed found
BH-11	N-27°10'28"	E-95°21'14"	1.5	1.95	73	Silty sand with gravel
BH-11	N-27°10'28"	E-95°21'14"	3	3.45	75	Silty sand with gravel
BH-11	N-27°10'28"	E-95°21'14"	7.5	9	93	Fractured rock with gravel
BH-11	N-27°10'28"	E-95°21'14"	9	10.5	98	Fractured rock with gravel
BH-11	N-27°10'28"	E-95°21'14"	10.5	12	100	Fractured rock with gravel
BH-11	N-27°10'28"	E-95°21'14"	12	13.5	>100	Refusal as N>100 rock
BH-12	N-27°10'36"	E-95°21'22"	0	0.5	-	Brown sandy clay soil
BH-12	N-27°10'36"	E-95°21'22"	1.5	1.95	-	Brown clay
BH-12	N-27°10'36"	E-95°21'22"	3	3.45	-	Brown clay
BH-13	N-27°10'40"	E-95°21'02"	1.5	1.95	6	Brown Sandy Soil
BH-13	N-27°10'40"	E-95°21'02"	3	3.45	52	Brown silty sand with gravel
BH-13	N-27°10'40"	E-95°21'02"	3.45	10	93-98	Fractured rock with gravel
BH-13	N-27°10'40"	E-95°21'02"	10	11.5	>100	Refusal as N>100 rock
BH-14	N-27°10'42"	E-95°20'56"	1.5	1.95	86	SPT-1 (Silty Soil)
BH-14	N-27°10'42"	E-95°20'56"	1.95	9.5	69-99	Fractured rock with gravel
BH-14	N-27°10'42"	E-95°20'56"	9.5	11	>100	Refusal as N>100 rock
BH-15	N-27°10'38"	E-95°20'54"	1.5	1.95	7	SPT-1
BH-15	N-27°10'38"	E-95°20'54"	4.5	4.95	90	SPT-3
BH-15	N-27°10'38"	E-95°20'54"	8	12	76-98	Fractured rock with gravel
BH-16	N-27°10'34"	E-95°21'03"	1.5	1.95	-	Brown sandy Soil
BH-16	N-27°10'34"	E-95°21'03"	5	9.5	93-100	Fractured rock with gravel
BH-17	N-27°10'32"	E-95°21'10"	1.5	1.95	21	Medium dense brown sand
BH-17	N-27°10'32"	E-95°21'10"	3	3.45	81	Sand with coarse gravel
BH-18	N-27°10'36"	E-95°21'22"	1.5	1.95	3	Brown sandy clay
BH-19	N-27°10'31"	E-95°21'06"	1.5	1.95	5	Brown Sandy soil
BH-19	N-27°10'31"	E-95°21'06"	4.5	4.95	79	Sand with coarse gravel
BH-19	N-27°10'31"	E-95°21'06"	4.95	8	92-98	Fractured rock with gravel

Annexure -A



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/01

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/01

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-1	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	60.2
2	3.0			58.2
3	4.5			51.55
4	6.0			45.69
5	7.5			41.56
6	9.0			13.81
7	10.5			25.6
8	12.0			19.56
9	13.5			14.63
10	15.0			24.63

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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1. The Location of performance of laboratory activities permanent facility.
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3. Total liability of our lab is limited to the invoiced amount.
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H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-2	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	55.4
2	3.0			60.3
3	4.5			54.45
4	6.0			48.89
5	7.5			44.86
6	9.0			12.41
7	10.5			26.6
8	12.0			20.66
9	13.5			13.45
10	15.0			25.64

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/03

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/03

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-3	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	45.6
2	3.0			55.2
3	4.5			60.25
4	6.0			52.82
5	7.5			46.76
6	9.0			13.21
7	10.5			25.4
8	12.0			21.56
9	13.5			12.85
10	15.0			26.24

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/04

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/04

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-4	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	52.5
2	3.0			45.4
3	4.5			65.35
4	6.0			54.42
5	7.5			44.86
6	9.0			12.34
7	10.5			21.2
8	12.0			22.62
9	13.5			13.85
10	15.0			25.54

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/05

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/05

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

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S.NO	Depth(mtr) BH-5	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	48.2
2	3.0			52.4
3	4.5			58.25
4	6.0			62.22
5	7.5			48.46
6	9.0			13.34
7	10.5			20.4
8	12.0			23.32
9	13.5			12.65
10	15.0			21.24

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/06

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/06

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-6	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	52.6
2	3.0			47.6
3	4.5			55.35
4	6.0			64.32
5	7.5			41.86
6	9.0			11.52
7	10.5			19.4
8	12.0			21.24
9	13.5			11.64
10	15.0			20.44

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/07

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/07

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-7	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	51.7
2	3.0			49.4
3	4.5			58.44
4	6.0			60.42
5	7.5			45.46
6	9.0			12.42
7	10.5			18.5
8	12.0			22.28
9	13.5			13.14
10	15.0			23.44

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/08

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/08

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-8	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	60.5
2	3.0			51.5
3	4.5			54.34
4	6.0			62.52
5	7.5			47.26
6	9.0			14.4
7	10.5			26.7
8	12.0			20.18
9	13.5			15.54
10	15.0			22.24

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/09

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/09

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-9	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	64.4
2	3.0			56.5
3	4.5			51.44
4	6.0			64.32
5	7.5			49.26
6	9.0			15.42
7	10.5			24.4
8	12.0			19.48
9	13.5			14.74
10	15.0			26.54

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/10

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/10

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-10	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	62.6
2	3.0			52.4
3	4.5			58.34
4	6.0			61.48
5	7.5			44.26
6	9.0			14.25
7	10.5			27.4
8	12.0			20.28
9	13.5			12.84
10	15.0			24.44

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/11

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/11

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-11	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	66.8
2	3.0			55.6
3	4.5			45.84
4	6.0			50.48
5	7.5			46.24
6	9.0			15.25
7	10.5			26.5
8	12.0			21.28
9	13.5			13.81
10	15.0			25.14

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/12

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/12

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-12	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	61.5
2	3.0			53.4
3	4.5			47.84
4	6.0			52.28
5	7.5			49.14
6	9.0			13.15
7	10.5			24.4
8	12.0			19.18
9	13.5			15.81
10	15.0			23.54

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/13

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/13

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-13	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	63.5
2	3.0			56.4
3	4.5			45.54
4	6.0			55.18
5	7.5			45.32
6	9.0			12.25
7	10.5			23.2
8	12.0			20.19
9	13.5			16.41
10	15.0			24.34

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/14

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/14

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-14	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	55.4
2	3.0			60.6
3	4.5			52.14
4	6.0			48.28
5	7.5			42.42
6	9.0			14.15
7	10.5			24.3
8	12.0			18.24
9	13.5			15.42
10	15.0			25.54

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/15

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/15

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-15	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	57.5
2	3.0			61.2
3	4.5			50.15
4	6.0			49.38
5	7.5			44.53
6	9.0			12.22
7	10.5			26.3
8	12.0			19.14
9	13.5			15.22
10	15.0			23.44

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/16

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/16

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-12/02/2026

Date of Receipt: 10/02/2026

S.NO	Depth(mtr) BH-16	Test	Method of Testing	Result (%)
1	1.5	Natural water content %	IS 2720 (Part 2)-1973	52.2
2	3.0			60.3
3	4.5			49.16
4	6.0			52.48
5	7.5			45.33
6	9.0			13.24
7	10.5			24.3
8	12.0			20.18
9	13.5			15.56
10	15.0			26.21

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/01

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/01

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

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G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-1	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.925
		Dry Density (g/cc)		1.711
2	4.5	Bulk Density (g/cc)		2.063
		Dry Density (g/cc)		1.84
3	6.0	Bulk Density (g/cc)		2.068
		Dry Density (g/cc)		1.86
4	7.5	Bulk Density (g/cc)		2.096
		Dry Density (g/cc)		1.88
5	9.0	Bulk Density (g/cc)		2.11
		Dry Density (g/cc)		1.90
6	10.5	Bulk Density (g/cc)		2.12
		Dry Density (g/cc)		1.89
7	12.5	Bulk Density (g/cc)		2.13
		Dry Density (g/cc)		1.90
8	15.0	Bulk Density (g/cc)		2.20
		Dry Density (g/cc)		1.98

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



End of Report

Page 1 of 1

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TEST REPORT

Description of Sample: Soil

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-2	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.925
		Dry Density (g/cc)		1.721
2	4.5	Bulk Density (g/cc)		2.065
		Dry Density (g/cc)		1.84
3	6.0	Bulk Density (g/cc)		2.068
		Dry Density (g/cc)		1.85
4	7.5	Bulk Density (g/cc)		2.096
		Dry Density (g/cc)		1.87
5	9.0	Bulk Density (g/cc)		2.13
		Dry Density (g/cc)		1.90
6	10.5	Bulk Density (g/cc)		2.16
		Dry Density (g/cc)		1.92
7	12.5	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.94
8	15.0	Bulk Density (g/cc)		2.21
		Dry Density (g/cc)		1.97

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil

Sample ID: 100226/03

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/03

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-3	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.929
		Dry Density (g/cc)		1.722
2	4.5	Bulk Density (g/cc)		2.066
		Dry Density (g/cc)		1.844
3	6.0	Bulk Density (g/cc)		2.064
		Dry Density (g/cc)		1.842
4	7.5	Bulk Density (g/cc)		2.092
		Dry Density (g/cc)		1.868
5	9.0	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.91
6	10.5	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.94
7	12.5	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.93
8	15.0	Bulk Density (g/cc)		2.23
		Dry Density (g/cc)		1.99

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/04

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/04

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-4	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.921
		Dry Density (g/cc)		1.731
2	4.5	Bulk Density (g/cc)		2.068
		Dry Density (g/cc)		1.863
3	6.0	Bulk Density (g/cc)		2.061
		Dry Density (g/cc)		1.856
4	7.5	Bulk Density (g/cc)		2.094
		Dry Density (g/cc)		1.886
5	9.0	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.95
6	10.5	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.97
7	12.5	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.92
8	15.0	Bulk Density (g/cc)		2.21
		Dry Density (g/cc)		1.99

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/05

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/05

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

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S.NO	Depth(mtr) BH-5	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.926
		Dry Density (g/cc)		1.735
2	4.5	Bulk Density (g/cc)		2.059
		Dry Density (g/cc)		1.854
3	6.0	Bulk Density (g/cc)		2.066
		Dry Density (g/cc)		1.861
4	7.5	Bulk Density (g/cc)		2.089
		Dry Density (g/cc)		1.881
5	9.0	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.97
6	10.5	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.95
7	12.5	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.93
8	15.0	Bulk Density (g/cc)		2.27
		Dry Density (g/cc)		2.01

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil

Sample ID: 100226/06

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/06

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-6	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.929
		Dry Density (g/cc)		1.737
2	4.5	Bulk Density (g/cc)		2.052
		Dry Density (g/cc)		1.848
3	6.0	Bulk Density (g/cc)		2.061
		Dry Density (g/cc)		1.856
4	7.5	Bulk Density (g/cc)		2.085
		Dry Density (g/cc)		1.878
5	9.0	Bulk Density (g/cc)		2.16
		Dry Density (g/cc)		1.94
6	10.5	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.97
7	12.5	Bulk Density (g/cc)		2.13
		Dry Density (g/cc)		1.91
8	15.0	Bulk Density (g/cc)		2.29
		Dry Density (g/cc)		2.06

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil

Sample ID: 100226/07

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/07

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-7	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.922
		Dry Density (g/cc)		1.731
2	4.5	Bulk Density (g/cc)		2.054
		Dry Density (g/cc)		1.851
3	6.0	Bulk Density (g/cc)		2.063
		Dry Density (g/cc)		1.859
4	7.5	Bulk Density (g/cc)		2.084
		Dry Density (g/cc)		1.877
5	9.0	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.96
6	10.5	Bulk Density (g/cc)		2.16
		Dry Density (g/cc)		1.94
7	12.5	Bulk Density (g/cc)		2.13
		Dry Density (g/cc)		1.91
8	15.0	Bulk Density (g/cc)		2.24
		Dry Density (g/cc)		2.01

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



Verified & Authorized Signature

End of Report

Page 1 of 1

1. The Location of performance of laboratory activities permanent facility.
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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/08

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/08

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-8	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.921
		Dry Density (g/cc)		1.730
2	4.5	Bulk Density (g/cc)		2.052
		Dry Density (g/cc)		1.848
3	6.0	Bulk Density (g/cc)		2.068
		Dry Density (g/cc)		1.863
4	7.5	Bulk Density (g/cc)		2.086
		Dry Density (g/cc)		1.879
5	9.0	Bulk Density (g/cc)		2.11
		Dry Density (g/cc)		1.90
6	10.5	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.92
7	12.5	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.96
8	15.0	Bulk Density (g/cc)		2.28
		Dry Density (g/cc)		2.05

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



Verified & Authorized Signature

End of Report

Page 1 of 1

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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/09

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/09

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-9	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.927
		Dry Density (g/cc)		1.736
2	4.5	Bulk Density (g/cc)		2.054
		Dry Density (g/cc)		1.850
3	6.0	Bulk Density (g/cc)		2.063
		Dry Density (g/cc)		1.858
4	7.5	Bulk Density (g/cc)		2.082
		Dry Density (g/cc)		1.875
5	9.0	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.92
6	10.5	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.97
7	12.5	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.95
8	15.0	Bulk Density (g/cc)		2.23
		Dry Density (g/cc)		2.01

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



Verified & Authorized Signature

*****End of Report*****

Page 1 of 1

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/10

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/10

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-10	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.929
		Dry Density (g/cc)		1.737
2	4.5	Bulk Density (g/cc)		2.057
		Dry Density (g/cc)		1.853
3	6.0	Bulk Density (g/cc)		2.068
		Dry Density (g/cc)		1.863
4	7.5	Bulk Density (g/cc)		2.086
		Dry Density (g/cc)		1.879
5	9.0	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.95
6	10.5	Bulk Density (g/cc)		2.13
		Dry Density (g/cc)		1.91
7	12.5	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.97
8	15.0	Bulk Density (g/cc)		2.27
		Dry Density (g/cc)		2.04

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Page 1 of 1

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/11

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/11

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-11	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.923
		Dry Density (g/cc)		1.748
2	4.5	Bulk Density (g/cc)		2.051
		Dry Density (g/cc)		1.864
3	6.0	Bulk Density (g/cc)		2.069
		Dry Density (g/cc)		1.881
4	7.5	Bulk Density (g/cc)		2.084
		Dry Density (g/cc)		1.894
5	9.0	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.94
6	10.5	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.97
7	12.5	Bulk Density (g/cc)		2.16
		Dry Density (g/cc)		1.96
8	15.0	Bulk Density (g/cc)		2.21
		Dry Density (g/cc)		2.01

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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*****End of Report*****

Page 1 of 1

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TEST REPORT

Description of Sample: Soil

Sample ID: 100226/12

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/12

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-12	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.927
		Dry Density (g/cc)		1.751
2	4.5	Bulk Density (g/cc)		2.056
		Dry Density (g/cc)		1.861
3	6.0	Bulk Density (g/cc)		2.063
		Dry Density (g/cc)		1.875
4	7.5	Bulk Density (g/cc)		2.088
		Dry Density (g/cc)		1.898
5	9.0	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.99
6	10.5	Bulk Density (g/cc)		2.15
		Dry Density (g/cc)		1.95
7	12.5	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.98
8	15.0	Bulk Density (g/cc)		2.29
		Dry Density (g/cc)		2.08

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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End of Report

Page 1 of 1

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/13

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/13

Date of Issue of Report: 04/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-13	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.929
		Dry Density (g/cc)		1.753
2	4.5	Bulk Density (g/cc)		2.059
		Dry Density (g/cc)		1.871
3	6.0	Bulk Density (g/cc)		2.066
		Dry Density (g/cc)		1.878
4	7.5	Bulk Density (g/cc)		2.081
		Dry Density (g/cc)		1.891
5	9.0	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.94
6	10.5	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.98
7	12.5	Bulk Density (g/cc)		2.13
		Dry Density (g/cc)		1.93
8	15.0	Bulk Density (g/cc)		2.22
		Dry Density (g/cc)		2.01

Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Page 1 of 1

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/14

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/14

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-14	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.921
		Dry Density (g/cc)		1.751
2	4.5	Bulk Density (g/cc)		2.052
		Dry Density (g/cc)		1.865
3	6.0	Bulk Density (g/cc)		2.064
		Dry Density (g/cc)		1.876
4	7.5	Bulk Density (g/cc)		2.084
		Dry Density (g/cc)		1.894
5	9.0	Bulk Density (g/cc)		2.16
		Dry Density (g/cc)		1.96
6	10.5	Bulk Density (g/cc)		2.15
		Dry Density (g/cc)		1.95
7	12.5	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.97
8	15.0	Bulk Density (g/cc)		2.28
		Dry Density (g/cc)		2.07

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report



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Page 1 of 1

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil

Sample ID: 100226/15

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/15

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-15	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.929
		Dry Density (g/cc)		1.753
2	4.5	Bulk Density (g/cc)		2.058
		Dry Density (g/cc)		1.871
3	6.0	Bulk Density (g/cc)		2.066
		Dry Density (g/cc)		1.878
4	7.5	Bulk Density (g/cc)		2.088
		Dry Density (g/cc)		1.898
5	9.0	Bulk Density (g/cc)		2.18
		Dry Density (g/cc)		1.98
6	10.5	Bulk Density (g/cc)		2.14
		Dry Density (g/cc)		1.94
7	12.5	Bulk Density (g/cc)		2.16
		Dry Density (g/cc)		1.96
8	15.0	Bulk Density (g/cc)		2.25
		Dry Density (g/cc)		2.04

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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*****End of Report*****

Page 1 of 1

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TEST REPORT

Description of Sample: Soil

Sample ID: 100226/16

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/s Assam Valley Fertilizer and chemical Company Ltd. ,

Location- Namrup (Assam)

Report No.: GSRL/100226/16

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

Issued To:-

G S Geo Environs Private Limited.

S.NO	Depth(mtr) BH-16	Test	Method of Testing	Result (%)
1	1.5	Bulk Density (g/cc)	IS 2720 (Part 7)-1980	1.924
		Dry Density (g/cc)		1.741
2	4.5	Bulk Density (g/cc)		2.051
		Dry Density (g/cc)		1.864
3	6.0	Bulk Density (g/cc)		2.062
		Dry Density (g/cc)		1.874
4	7.5	Bulk Density (g/cc)		2.085
		Dry Density (g/cc)		1.895
5	9.0	Bulk Density (g/cc)		2.17
		Dry Density (g/cc)		1.97
6	10.5	Bulk Density (g/cc)		2.15
		Dry Density (g/cc)		1.95
7	12.5	Bulk Density (g/cc)		2.19
		Dry Density (g/cc)		1.99
8	15.0	Bulk Density (g/cc)		2.28
		Dry Density (g/cc)		2.07

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Page 1 of 1

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**TEST REPORT****Description of Sample:** Soil BH-1**Sample ID:** 100226/02**Sample Quantity:** 20 Kg.**Sample Condition:** Receipt as OK**Location :** Namrup (Assam)**N.O.W.:** Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.**Issued To:-**

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02**Date of Issue of Report:** 19/02/2026**Date of Performance of Testing:** 11-18/02/2026**Date of Receipt:** 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.68 & 0.52
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	25
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 28$ Cohesion = 0.45
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.5
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 2.9 C- 1.45
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.2 C- 1.6 $\Phi = 29$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 2.9 C = 1.8 $\Phi = 30$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.04, Cv = 0.8
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	25
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	14
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.85
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.5
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	10.5

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1

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BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.66 & 0.50
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	22
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 29$ Cohesion = 0.47
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.0
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu - 3.2 C- 1.1
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu - 3.4 C- 1.7 $\Phi = 30$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.0 C = 1.5 $\Phi = 30$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.06, Cv = 0.7
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	26
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	16
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.83
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.5
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	11.0

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.67 & 0.51
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	26
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 28$ Cohesion = 0.31
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.4
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 2.8 C- 1.4
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.4 C- 1.7 $\Phi = 31$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.0 C = 1.5 $\Phi = 29$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.04, Cv = 0.5
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	28
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	18
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.86
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.0
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	11.0

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.68 & 0.52
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	22
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 30$ Cohesion = 0.46
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.2
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu - 3.2 C- 1.1
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu - 3.1 C- 1.5 $\Phi = 32$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.0 C = 1.5 $\Phi = 30$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.04, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	28
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	18
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.88
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.0
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	11.0

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtcliddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.68 & 0.52
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	22
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=32$ Cohesion = 0.59
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.4
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.6 C- 1.8
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.1 C- 1.5 $\Phi = 33$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 32$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	24
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	16
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.86
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	10.0
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	9.5

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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TEST REPORT

Description of Sample: Soil BH-6

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.65 & 0.55
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	14
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=34$ Cohesion = 0.63
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	1.98
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.4 C- 1.7
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.0 C- 1.5 $\Phi = 32$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 34$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	22
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	14
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.84
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.2
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	9.7

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.64 & 0.53
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	16
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=32$ Cohesion = 0.89
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.0
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.3 C- 1.6
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.0 C- 1.5 $\Phi = 34$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 35$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.3
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	20
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	16
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.84
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.2
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	9.7

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.63 & 0.54
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	16
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 34$ Cohesion = 0.88
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.6
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.1 C- 1.5
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.4 C- 1.7 $\Phi = 35$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 36$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.03, Cv = 0.6
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	26
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	18
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.86
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.6
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	9.9

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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TEST REPORT

Description of Sample: Soil BH-9

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.64 & 0.53
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	16
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 32$ Cohesion = 0.89
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.4
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu - 3.3 C- 1.6
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu - 3.0 C- 1.5 $\Phi = 34$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 35$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.3
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	20
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	16
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.84
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.2
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	9.7

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.63 & 0.51
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	16
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=30$ Cohesion = 0.76
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.5
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.2 C- 1.6
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 2.8 C- 1.4 $\Phi = 34$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 36$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	12
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	10
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.84
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.8
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	10.2

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.63 & 0.51
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	16
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=36$ Cohesion = 1.2
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.9
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.4 C- 1.7
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 2.8 C- 1.4 $\Phi = 34$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.8 C = 1.9 $\Phi = 37$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.7
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	8
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	5
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.88
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.0
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	11.5

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.66 & 0.53
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	10
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 30$ Cohesion = 0.76
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.8
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.2 C- 1.6
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 2.8 C- 1.4 $\Phi = 34$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.6 C = 1.8 $\Phi = 38$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.5
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	10
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	9
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	10
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.88
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	11.9
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	10.3

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.63 & 0.41
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	10
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=33$ Cohesion = 0.89
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.8
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.2 C- 1.6
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.9 C- 1.9 $\Phi = 35$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.6 C = 1.8 $\Phi = 34$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	6
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	8
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.89
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.6
	CBR Value at 5.0 mm, % (Soaked Condition)	IS 2720 (Part 16:1986)	11.8

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Page 1 of 1



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TEST REPORT

Description of Sample: Soil BH-14

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.65 & 0.36
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	12
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 35$ Cohesion = 0.97
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.7
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.2 C- 1.6
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 2.9 C- 1.4 $\Phi = 36$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.6 C = 1.8 $\Phi = 37$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.03, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	9
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	8
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	10
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.89
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.5
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	11.1

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.65 & 0.34
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	10
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 34$ Cohesion = 0.91
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.4
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.4 C- 1.7
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 2.9 C- 1.4 $\Phi = 35$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.6 C = 1.8 $\Phi = 36$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.04, Cv = 0.5
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	8
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	11
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	12
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.90
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	12.7
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	11.7

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.65 & 0.38
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	9
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 38$ Cohesion = 1.0
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.4
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu - 3.9 C- 1.8
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu - 3.8 C- 1.9 $\Phi = 37$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.6 C = 1.8 $\Phi = 36$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.03, Cv = 0.7
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	5
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	4
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.92
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	15.5
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	13.5

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-17

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.64 & 0.41
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	9
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=38$ Cohesion = 0.95
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.9
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.6 C- 1.8
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.0 C- 1.5 $\Phi = 36$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 35$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.3
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	5
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	7
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	10
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.84
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	14.5
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	12.5

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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TEST REPORT

Description of Sample: Soil BH-18

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.64 & 0.41
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	9
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 38$ Cohesion = 0.91
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.8
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu - 3.8 C- 1.9
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu - 3.6 C- 1.8 $\Phi = 37$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 36$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.02, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	4
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	8
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.89
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	14.4
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	12.3

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
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TEST REPORT

Description of Sample: Soil BH-19

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.65 & 0.36
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	5
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi = 38$ Cohesion = 1.03
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.8
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu - 3.8 C- 1.9
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu - 3.6 C- 1.8 $\Phi = 37$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.2 C = 1.6 $\Phi = 36$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.01, Cv = 0.6
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	2
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	2
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	10
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.92
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	14.9
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	12.7

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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TEST REPORT

Description of Sample: Soil BH-20

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

Date of Issue of Report: 19/02/2026

Date of Performance of Testing: 11-18/02/2026

Date of Receipt: 10/02/2026

S. No.	Test	Test Method	Result
1	Specific Gravity and Void Ratio	IS 2720 (Part 3/Sec 1:1980)	2.65 & 0.36
2	Hydrometer Analysis Each (%)	IS 2720 (Part 4:1985)	5
3	Direct Shear Test	IS 2720 (Part 13:1986)	Angle of friction $\phi=38$ Cohesion = 1.03
4	Unconfined Compression Test (kg/cm ²)	IS 2720 (Part 10:1991)	2.9
5	Unconsolidated Undrained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu – 3.8 C- 1.9
6	Consolidated Undrained Test (kg/cm ²)	(IS 2720 Part 11:1993)	Qu – 3.8 C- 1.9 $\Phi = 38$
7	Consolidated Drained Test (kg/cm ²)	IS 2720 (Part 11:1993)	Qu = 3.6 C = 1.8 $\Phi = 38$
8	Consolidation Test (cm ² /sec)	IS 2720 (Part 15:1986)	Cc = 0.01, Cv = 0.4
9	Swelling Pressure Test (kg/cm ²)	IS 2720 (Part 41:1986)	nil
10	Shrinkage Limit Test (%)	IS 2720 (Part 41:1986)	2
11	Optimum Moisture Content, %	IS 2720 (Part 8:1986)	11
	Maximum Dry Density, gm/cc	IS 2720 (Part 8:1986)	1.95
12	CBR Test at 2.5 mm Soaked condition (%)	IS 2720 (Part 16:1986)	16.5
	CBR Value at 5.0 mm, %(Soaked Condition)	IS 2720 (Part 16:1986)	13.5

Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA

End of Report

Page 1 of 1



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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (1.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

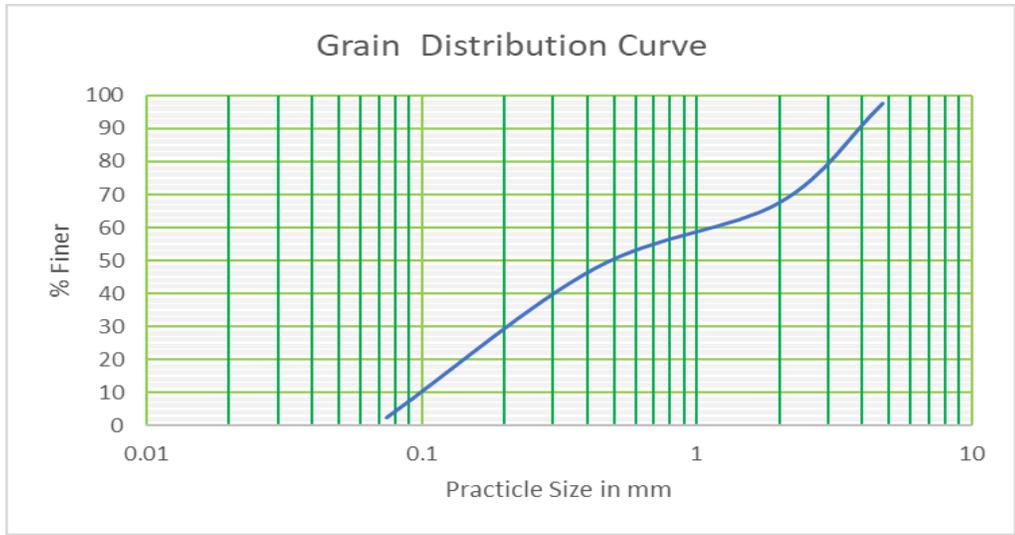
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97.5
	2.00 mm		67.5
	0.425 mm		47.5
	0.075 mm		2.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2.5	30	20	45	2.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH -1 (3.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

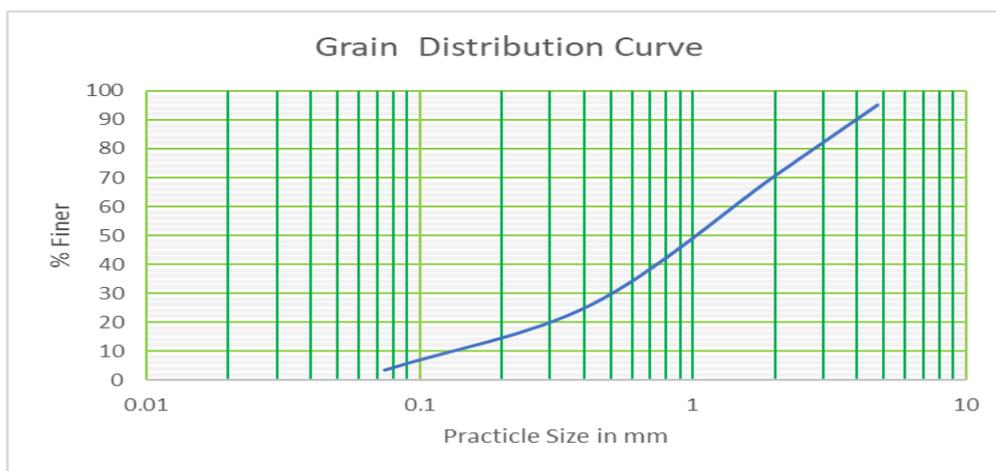
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	95
	2.00 mm		70.5
	0.425 mm		26
	0.075 mm		3.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
5	24.5	44.5	22.5	3.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (4.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

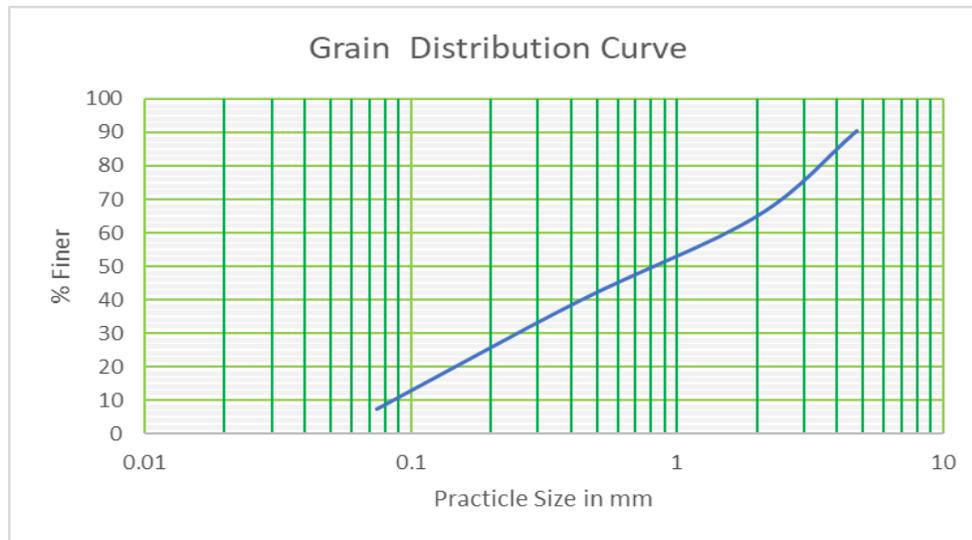
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	90.5
	2.00 mm		65
	0.425 mm		39.5
	0.075 mm		7.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
9.5	25.5	25.5	32	7.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (6.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

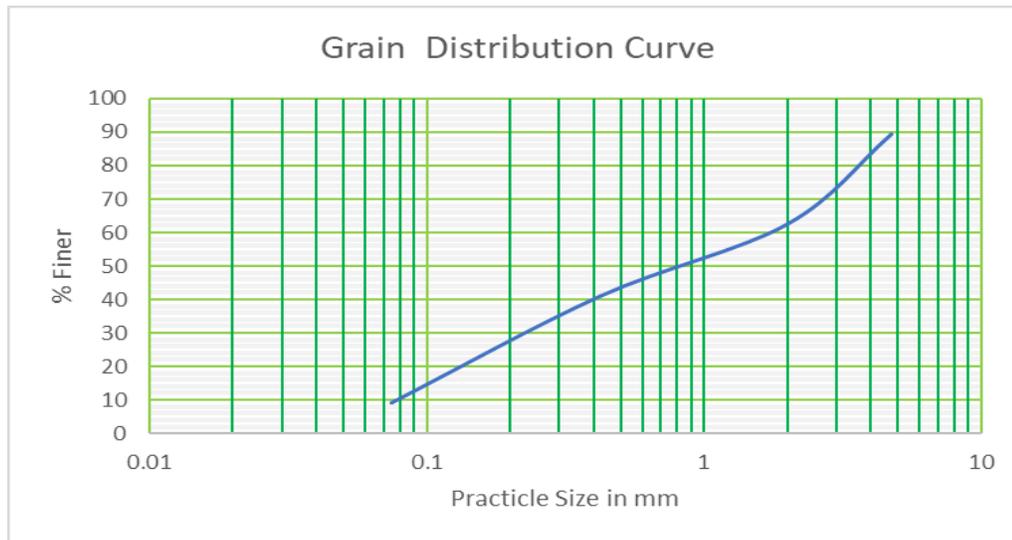
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89.5
	2.00 mm		62.5
	0.425 mm		41
	0.075 mm		9

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
10.5	27	21.5	32	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (7.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

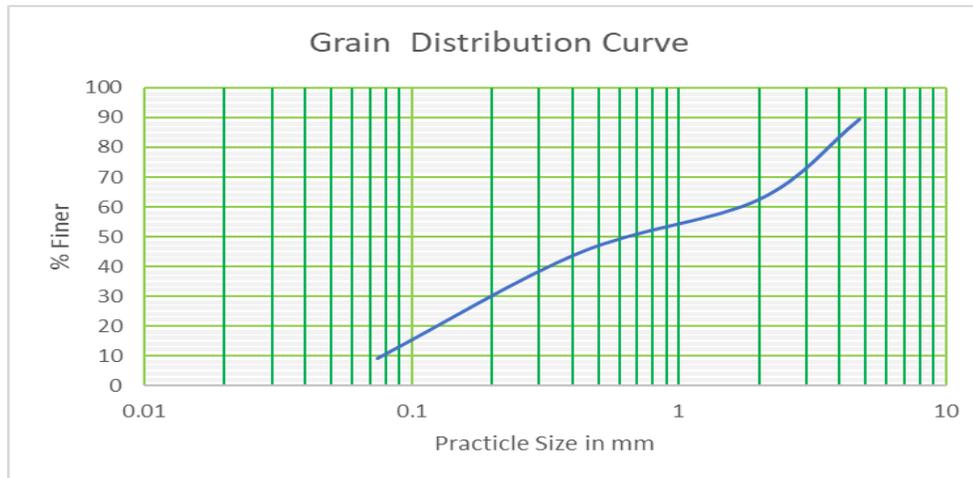
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89.5
	2.00 mm		62.5
	0.425 mm		44.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
10.5	27	18	35.5	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (9.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

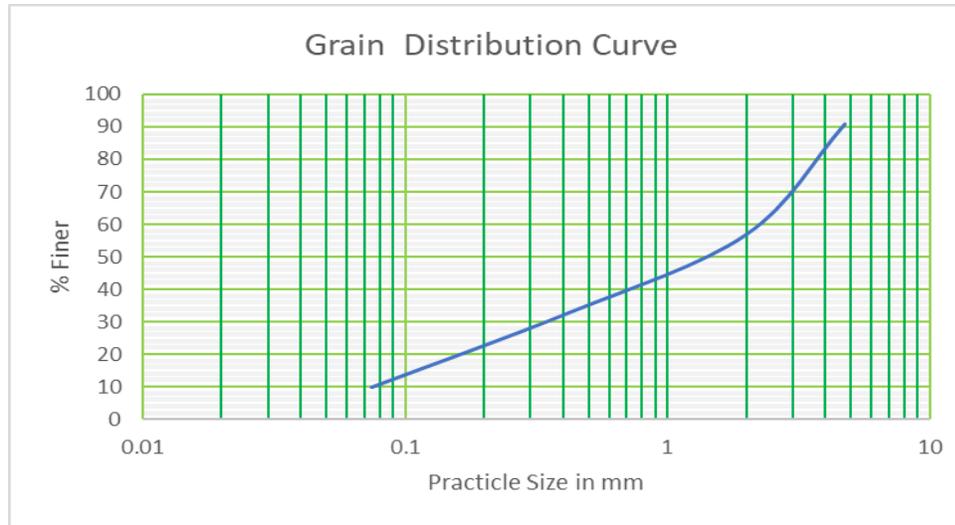
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/ 2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	91
	2.00 mm		57
	0.425 mm		33
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
9	34	24	23	10



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (10.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

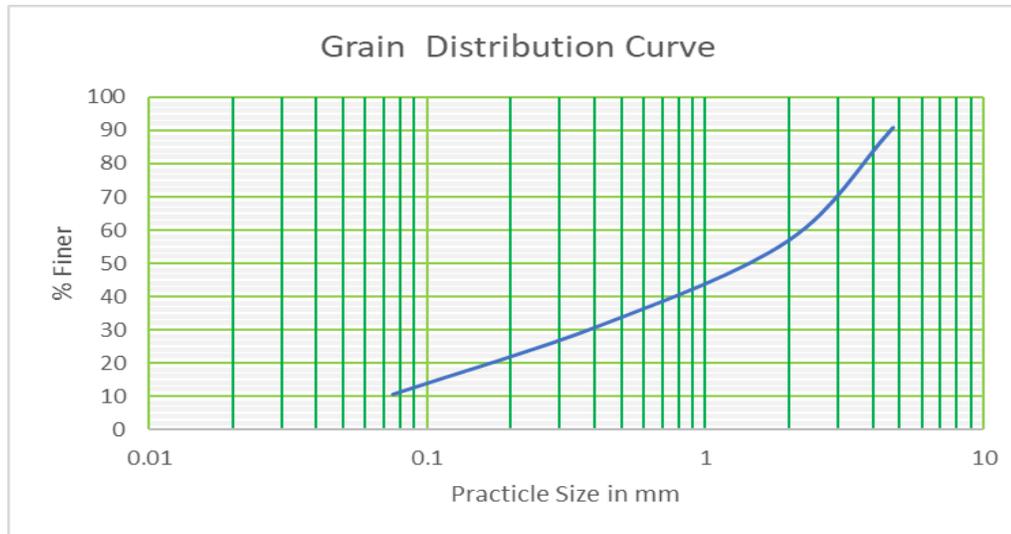
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	91
	2.00 mm		57
	0.425 mm		31.5
	0.075 mm		10.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
9	34	25.5	21	10.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (12.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

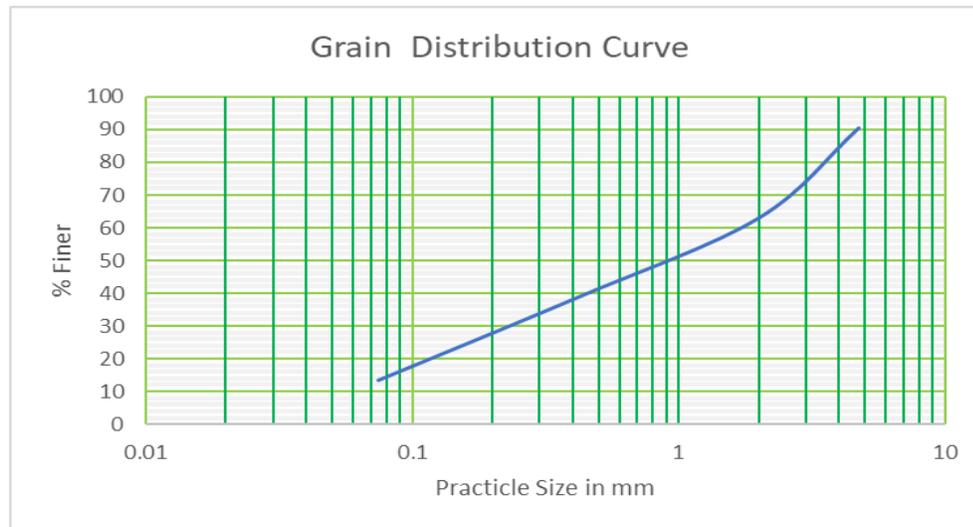
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	90.5
	2.00 mm		63
	0.425 mm		39
	0.075 mm		13.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
9.5	27.5	24	25.5	13.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (13.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

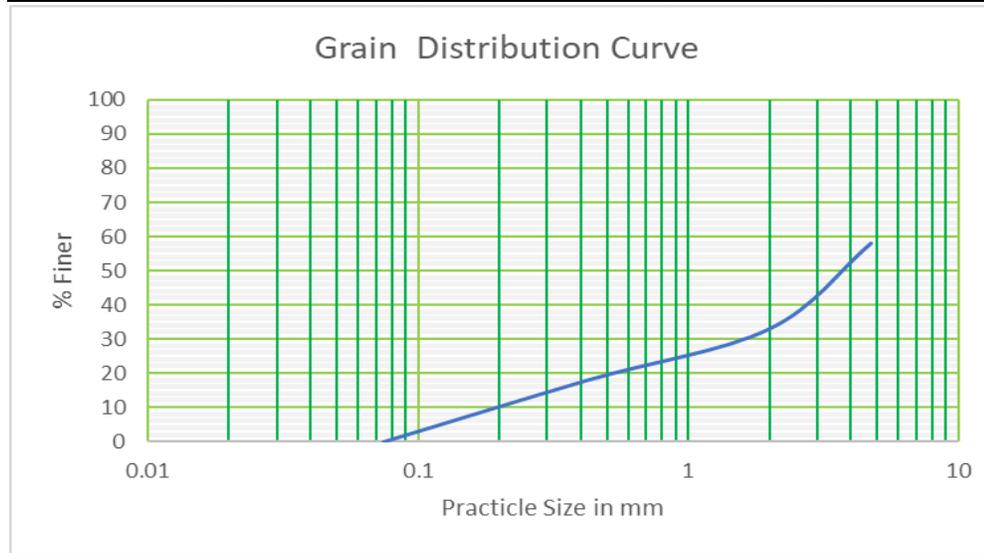
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	58
	2.00 mm		33
	0.425 mm		18
	0.075 mm		0

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
42	25	15	18	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-1 (15 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

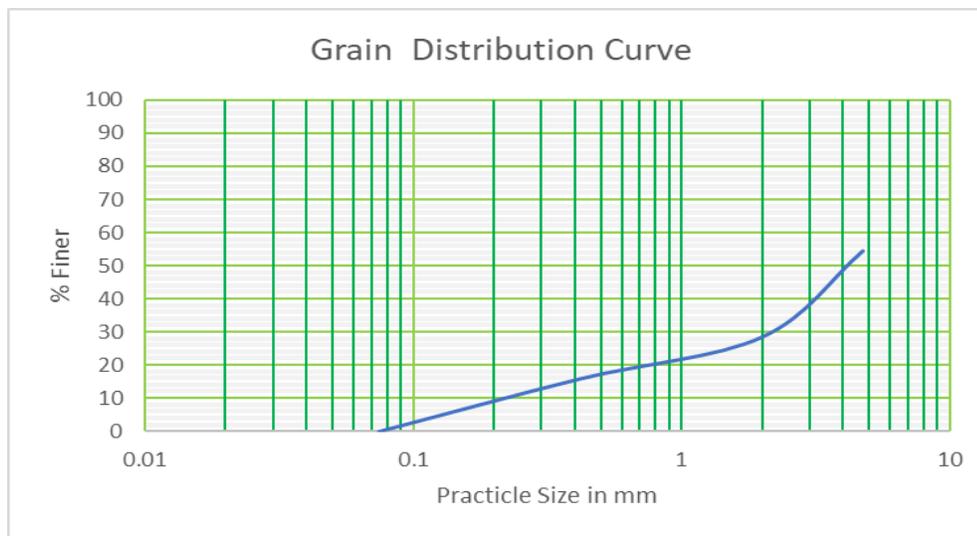
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	54.5
	2.00 mm		28.5
	0.425 mm		16
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
45.5	26	12.5	16	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (1 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

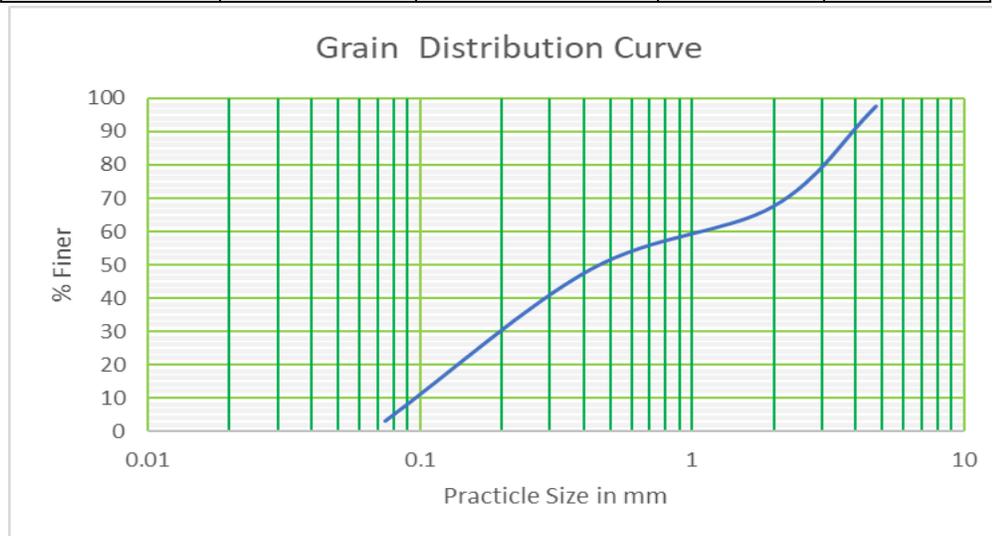
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97.5
	2.00 mm		67.5
	0.425 mm		48.5
	0.075 mm		3

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2.5	30	19	45.5	3



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

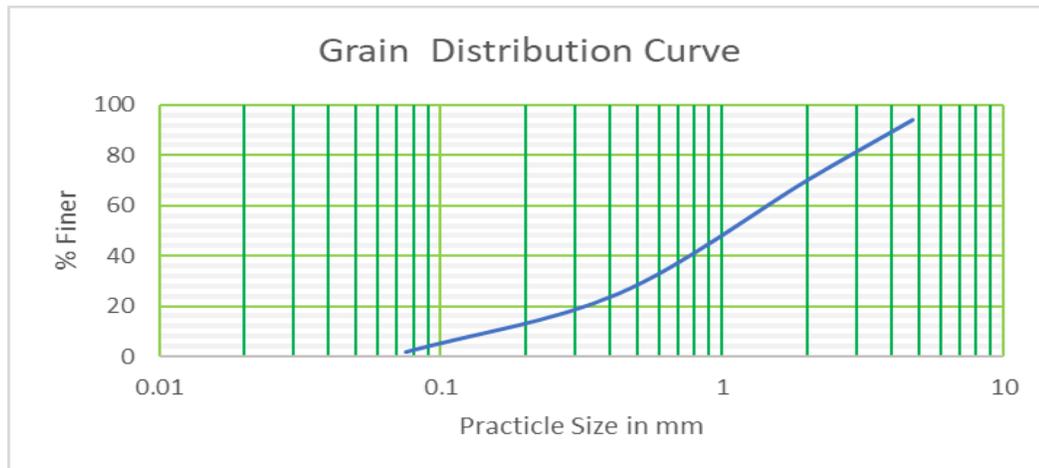
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94
	2.00 mm		70
	0.425 mm		25
	0.075 mm		2

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6	24	45	23	2



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (4.5.m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

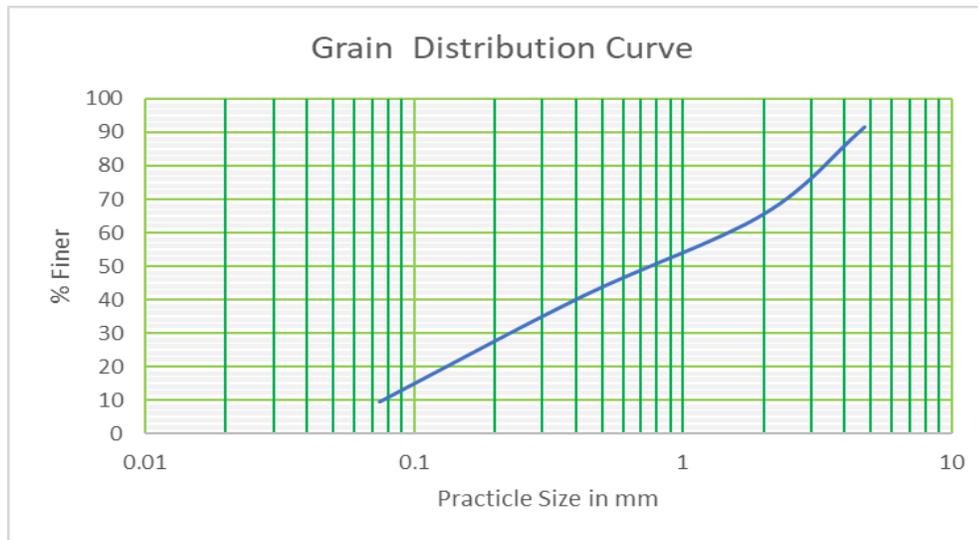
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	91.5
	2.00 mm		65.5
	0.425 mm		41
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
8.5	26	24.5	31.5	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd..

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Report No.: GSRL/100226/02

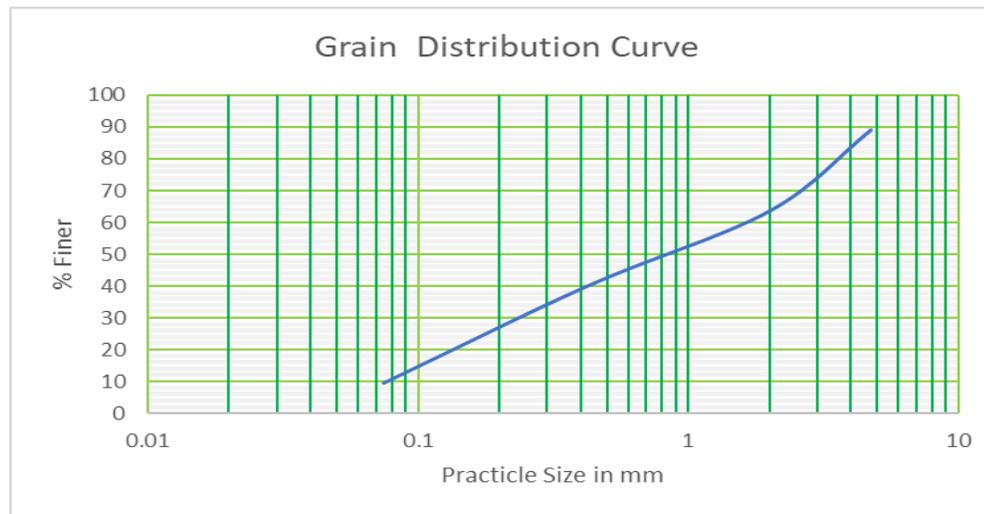
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89
	2.00 mm		63.5
	0.425 mm		40
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
11	25.5	23.5	30.5	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

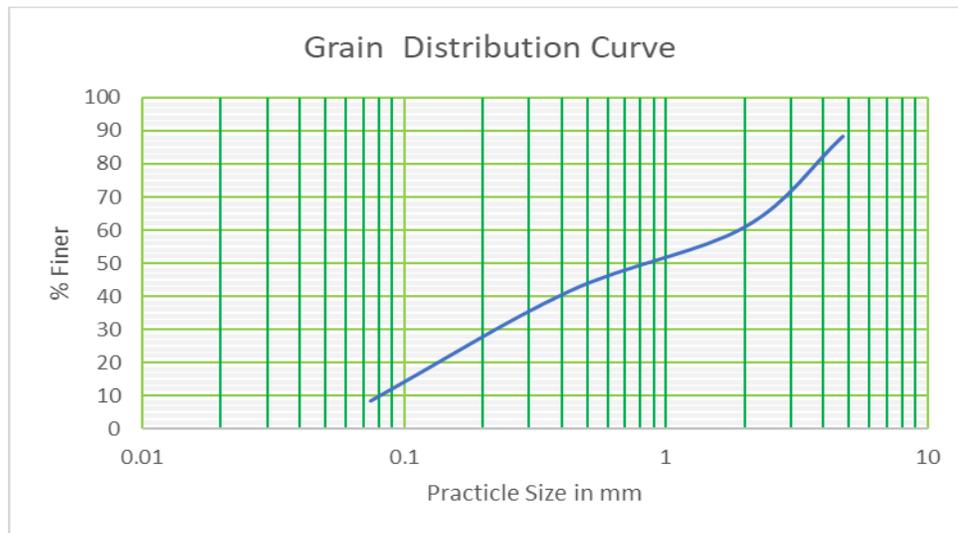
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	88.5
	2.00 mm		61
	0.425 mm		41.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
11.5	27.5	19.5	33	8.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

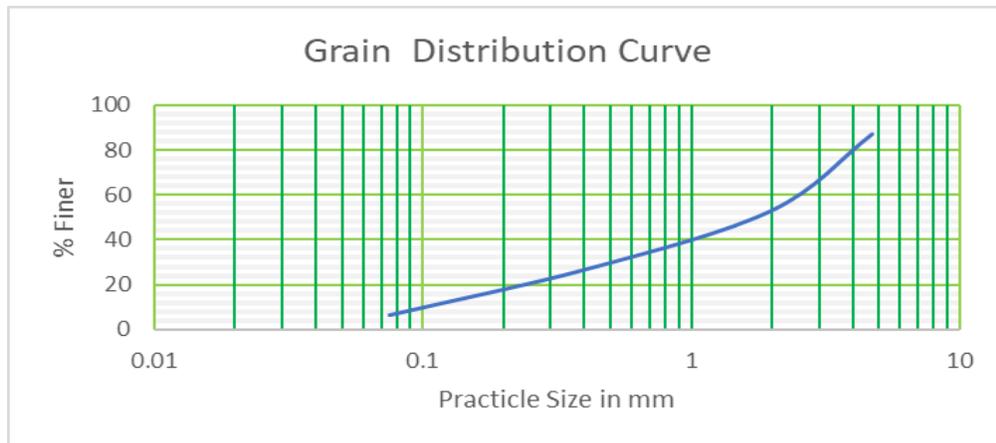
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		53
	0.425 mm		27.5
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	34	25.5	21	6.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

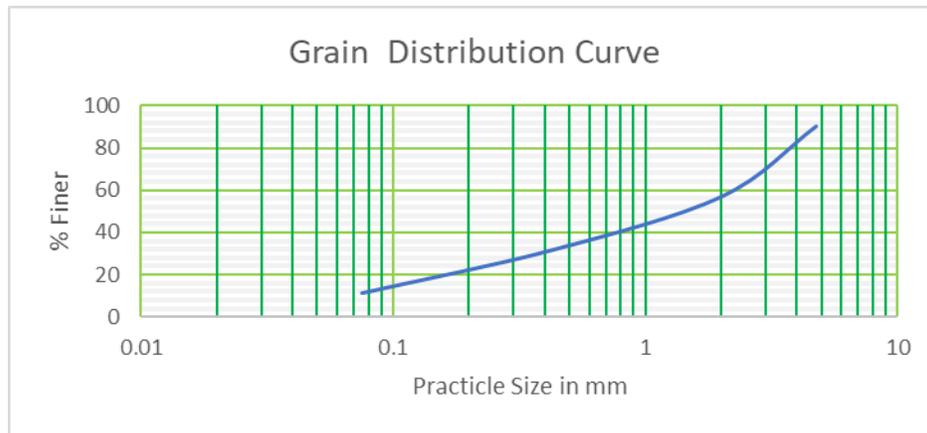
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	90.5
	2.00 mm		57
	0.425 mm		31.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
9.5	33.5	25.5	20.5	11



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

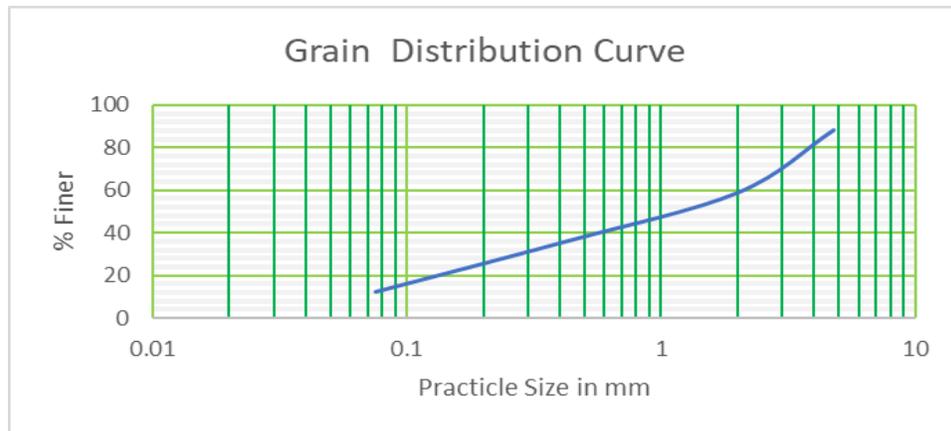
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2020

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	88.5
	2.00 mm		59
	0.425 mm		36
	0.075 mm		12

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
11.5	29.5	23	24	12



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

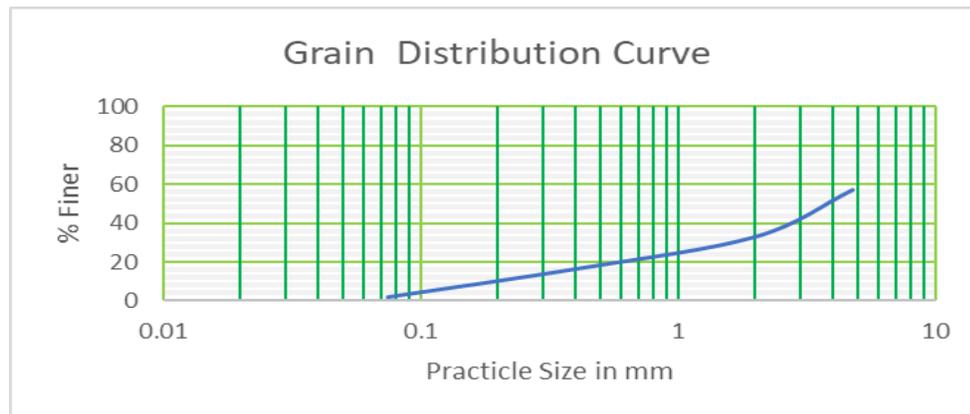
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	57
	2.00 mm		33
	0.425 mm		17
	0.075 mm		2

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
43	24	16	15	2



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-2 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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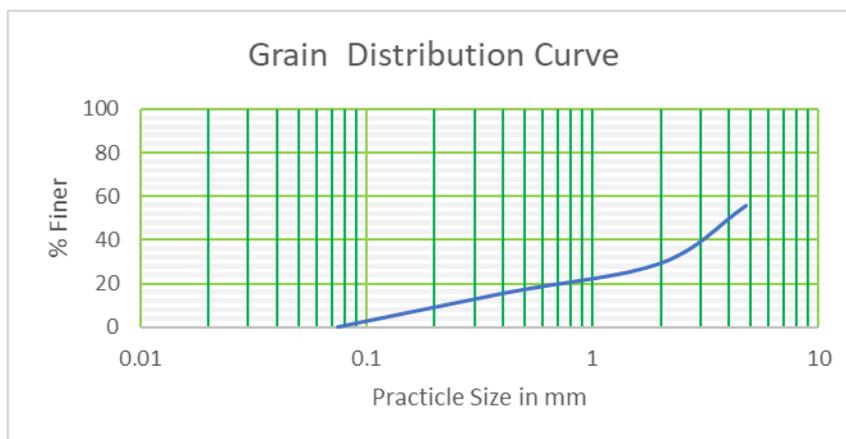
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	56
	2.00 mm		29.5
	0.425 mm		16
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
44	26.5	13.5	16	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Location : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

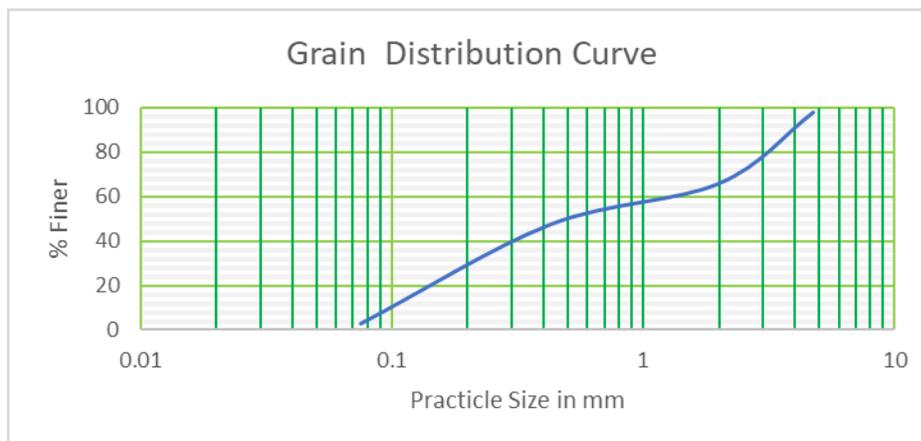
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	98
	2.00 mm		66
	0.425 mm		47.5
	0.075 mm		3

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2	32	18.5	44.5	3



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

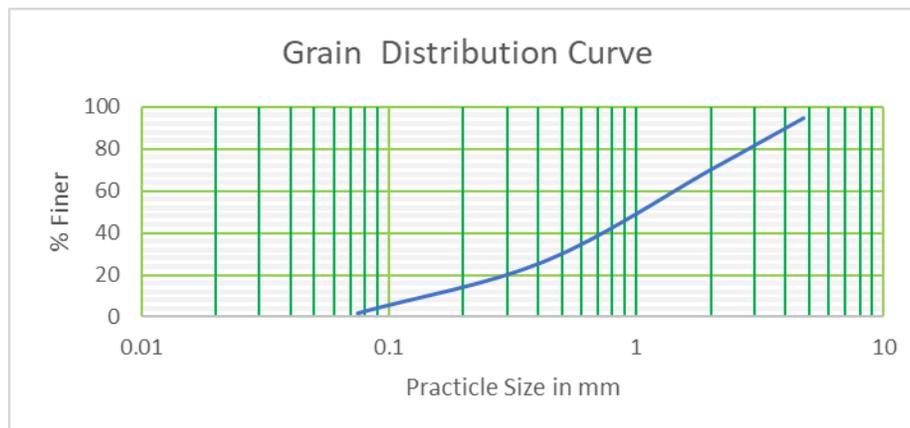
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94.5
	2.00 mm		70
	0.425 mm		26.5
	0.075 mm		2

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
5.5	24.5	43.5	24.5	2



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

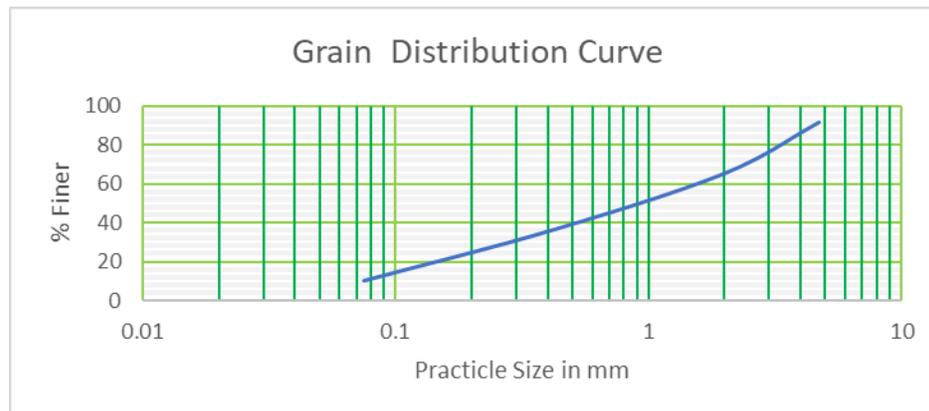
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	92
	2.00 mm		65.5
	0.425 mm		36.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
8	26.5	29	26.5	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

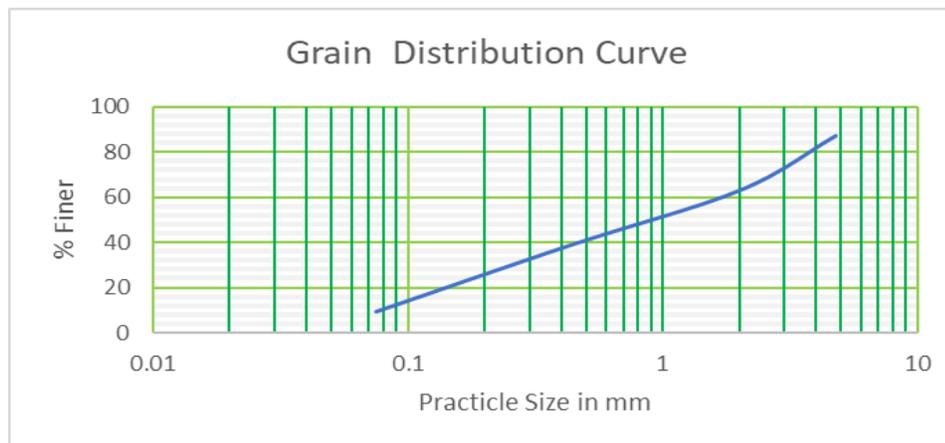
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		63
	0.425 mm		38.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	24	24.5	29	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

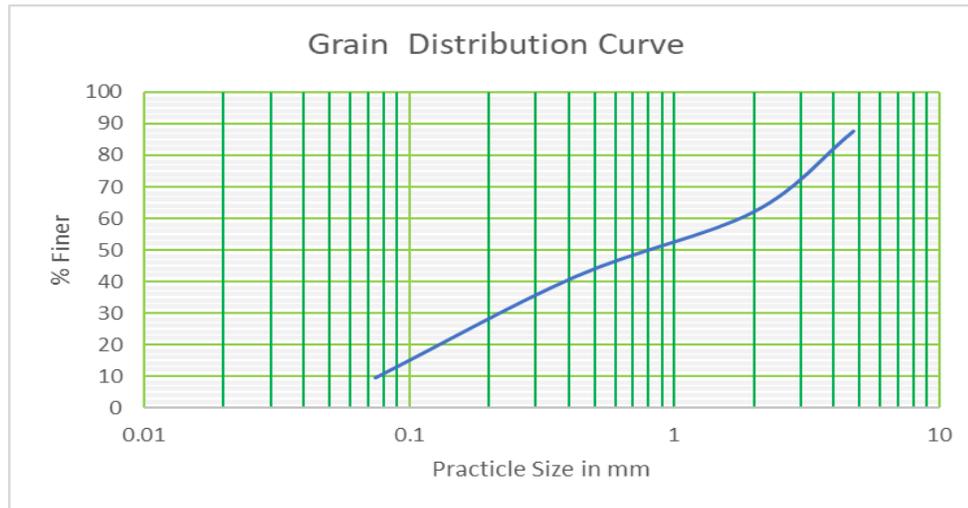
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87.5
	2.00 mm		62
	0.425 mm		41.5
	0.075 mm		9.5

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
12.5	25.5	20.5	32	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

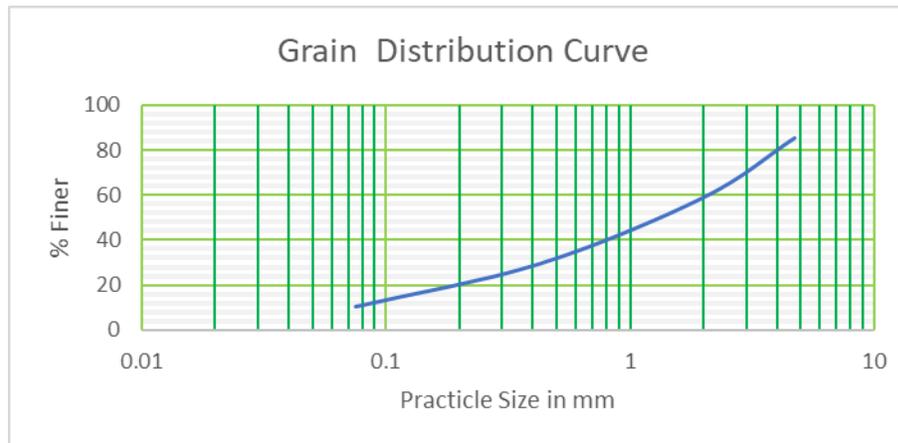
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	85.5
	2.00 mm		59
	0.425 mm		29.5
	0.075 mm		10.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
14.5	26.5	29.5	19	10.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

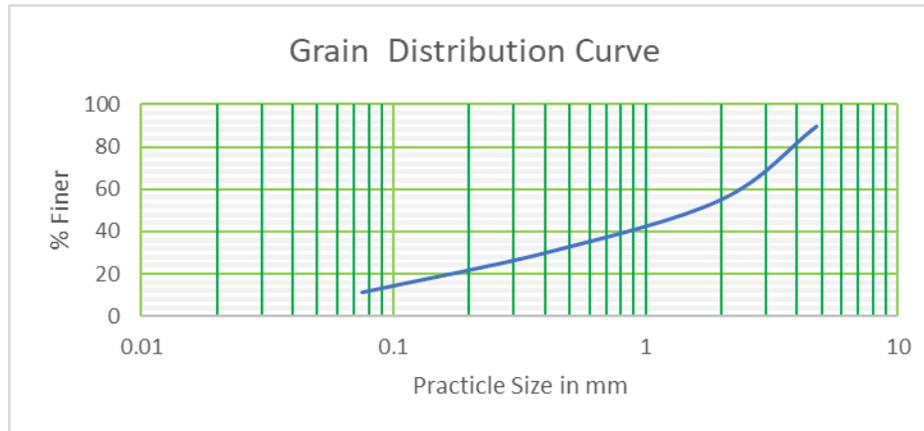
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89.5
	2.00 mm		55
	0.425 mm		30.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
10.5	34.5	24.5	19.5	11



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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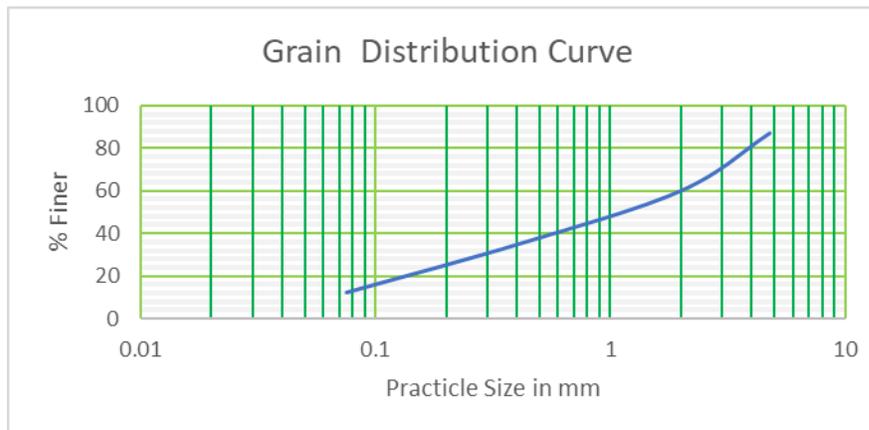
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		60
	0.425 mm		35.5
	0.075 mm		12

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	27	24.5	23.5	12



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.:: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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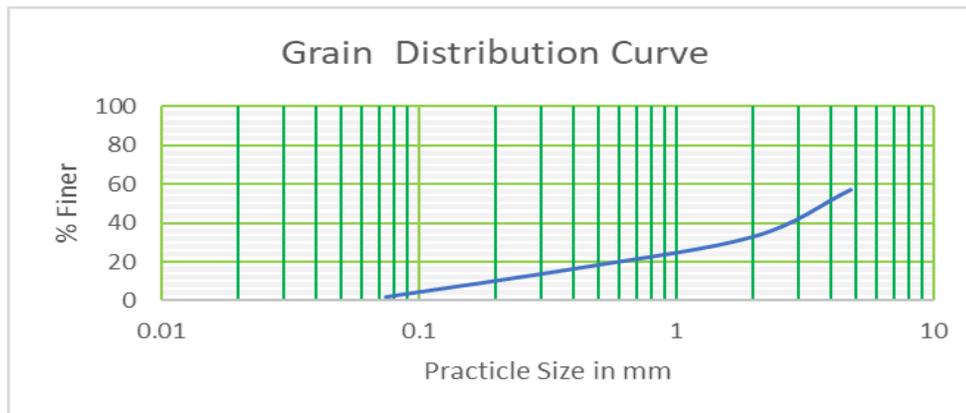
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	54.5
	2.00 mm		32
	0.425 mm		16.5
	0.075 mm		2

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
45.5	22.5	15.5	14.5	2



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-3 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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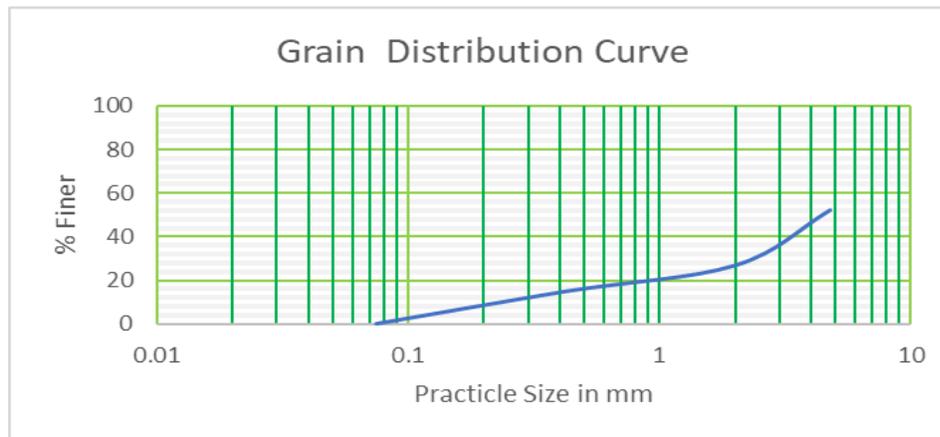
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	52.5
	2.00 mm		27
	0.425 mm		15
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
47.5	25.5	12	15	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

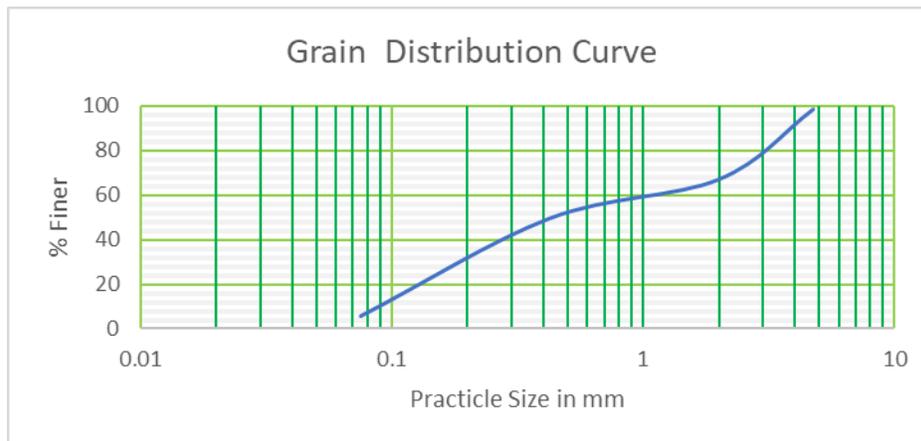
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	98.5
	2.00 mm		67
	0.425 mm		49.5
	0.075 mm		5.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
1.5	31.5	17.5	44	5.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

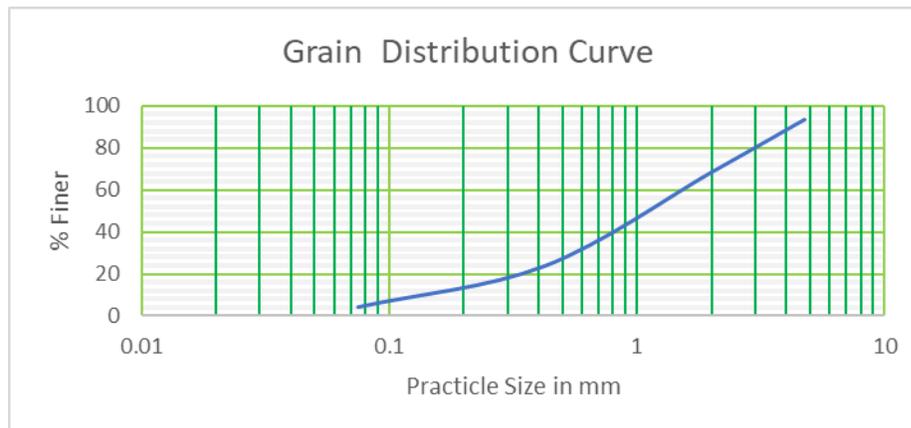
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	93.5
	2.00 mm		68.5
	0.425 mm		24
	0.075 mm		4.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6.5	25	44.5	19.5	4.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
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3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
5. This report is not reproduced wholly or in part and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

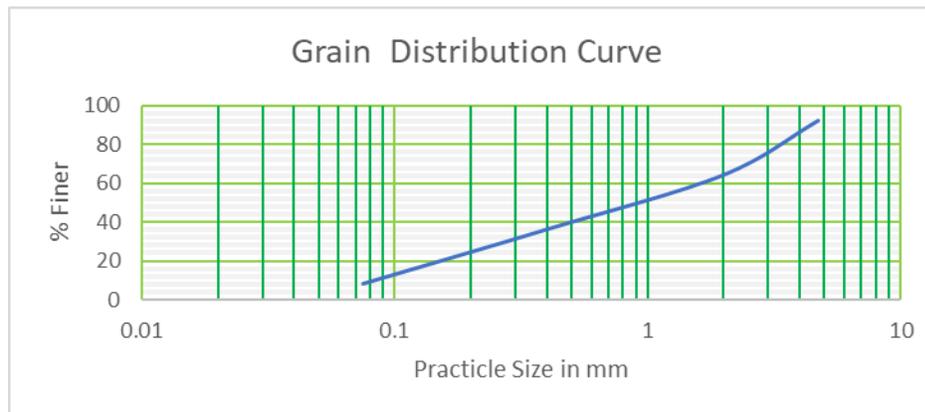
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	92.5
	2.00 mm		64.5
	0.425 mm		37.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
7.5	28	27	29	8.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

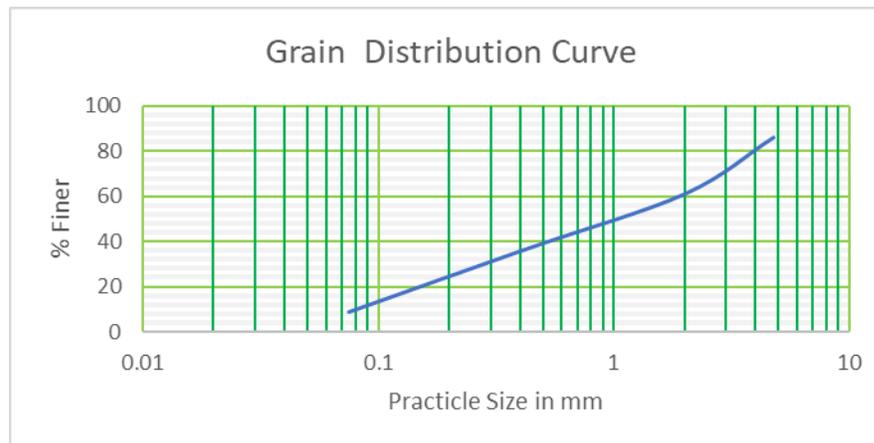
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	86
	2.00 mm		61
	0.425 mm		36.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
14	25	24.5	28	8.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

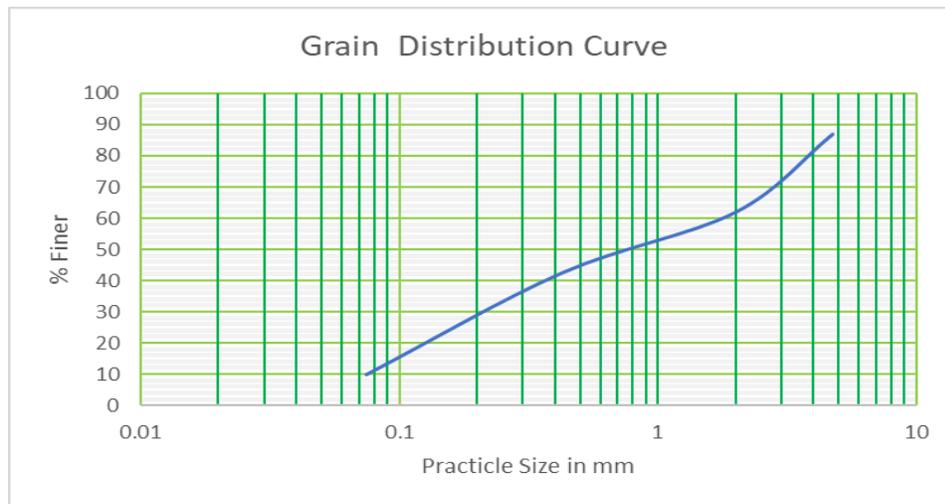
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		62
	0.425 mm		42.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	25	19.5	32.5	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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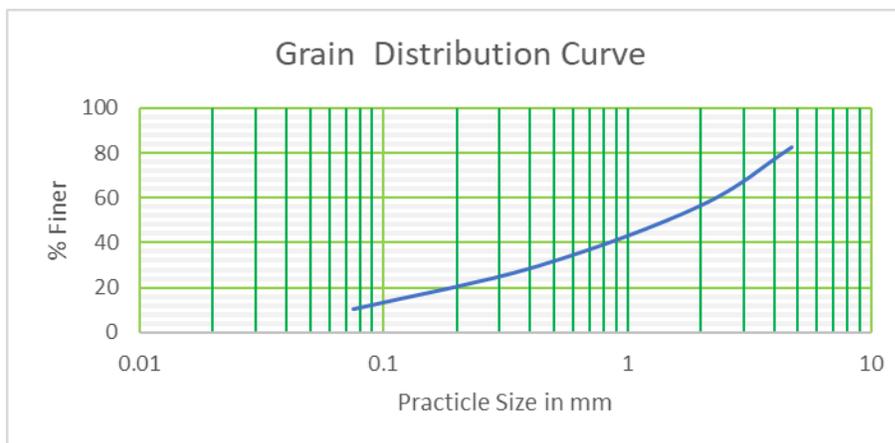
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82.5
	2.00 mm		56.5
	0.425 mm		29.5
	0.075 mm		10.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
17.5	26	27	19	10.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.. .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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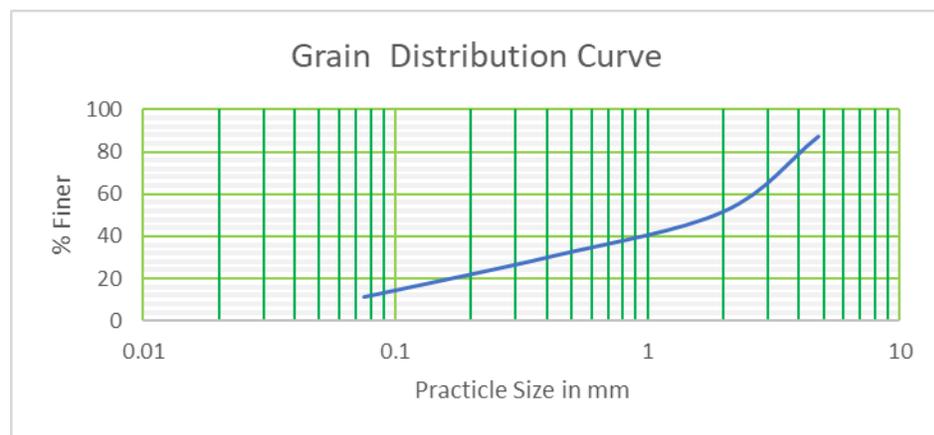
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		51.5
	0.425 mm		30.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	35.5	21	19.5	11



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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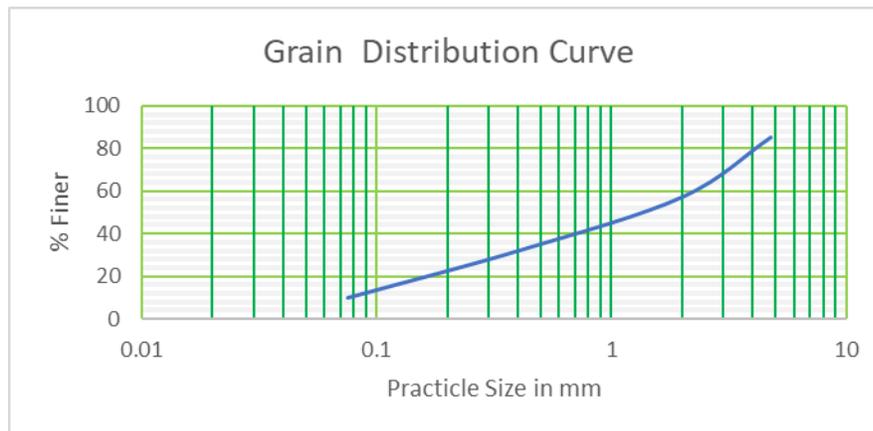
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		60
	0.425 mm		35.5
	0.075 mm		12

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
14.5	28	24.5	23	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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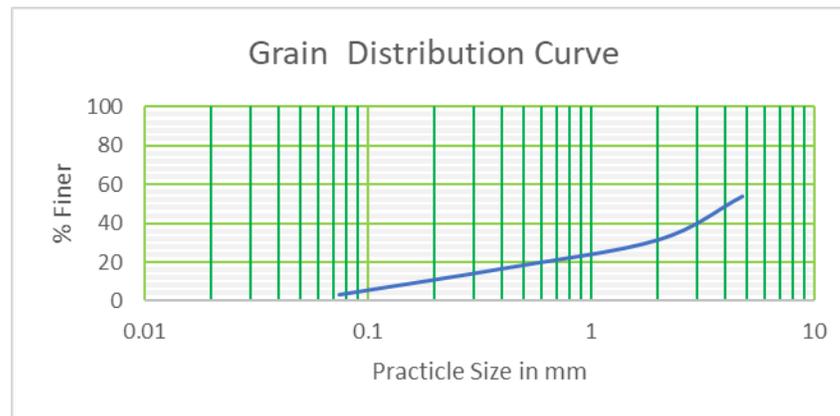
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	54
	2.00 mm		31.5
	0.425 mm		17
	0.075 mm		3

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
46	22.5	14.5	14	3



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-4 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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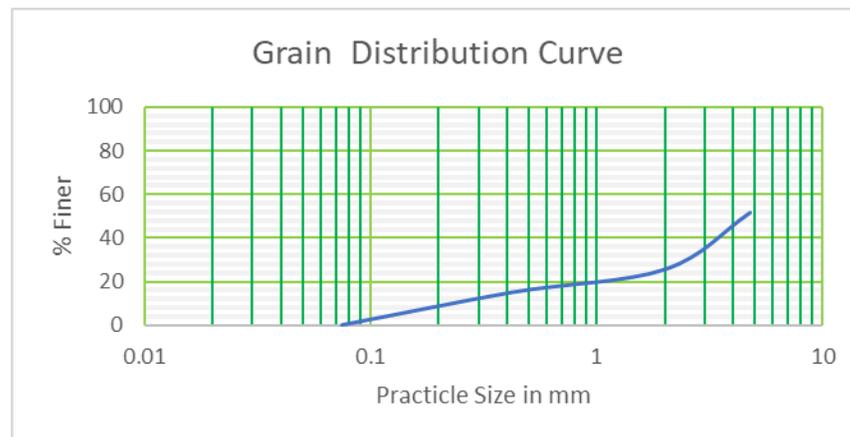
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	51.5
	2.00 mm		25.5
	0.425 mm		15
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
48.5	26	10.5	15	0



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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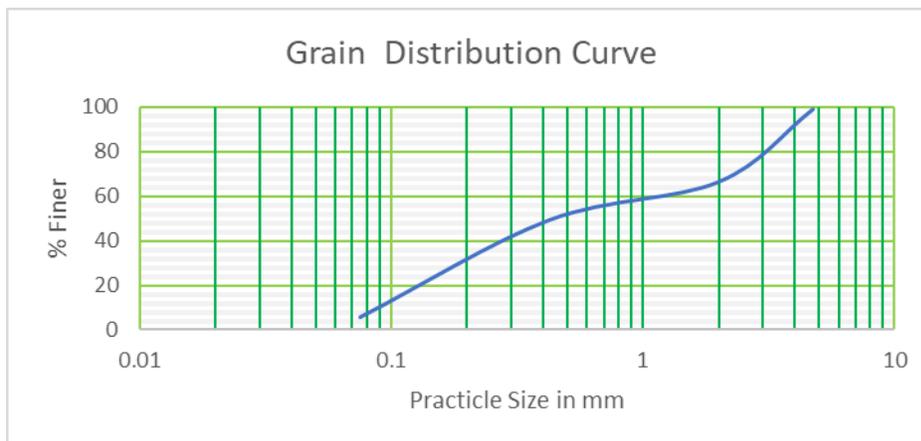
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	99
	2.00 mm		66.5
	0.425 mm		49.5
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
1	32.5	17	43.5	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil BH-5 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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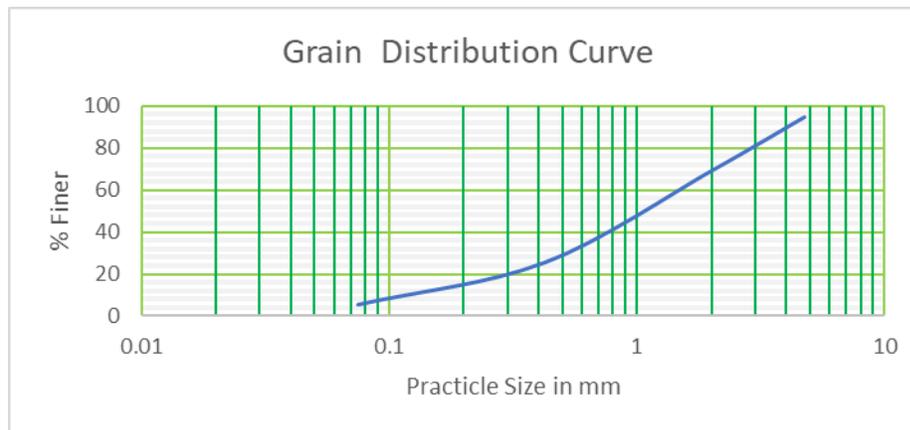
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94.5
	2.00 mm		69
	0.425 mm		25.5
	0.075 mm		5.5

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
5.5	25.5	43.5	20	5.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (4.5.m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

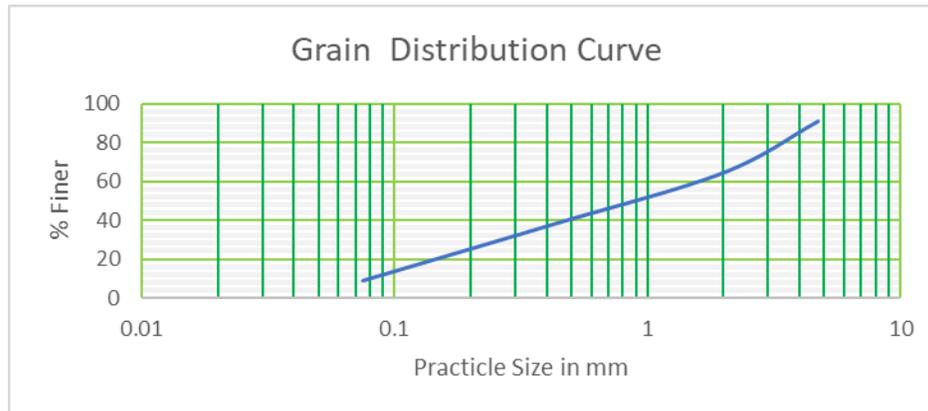
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	91
	2.00 mm		64.5
	0.425 mm		38
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
9	26.5	26.5	29	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
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3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

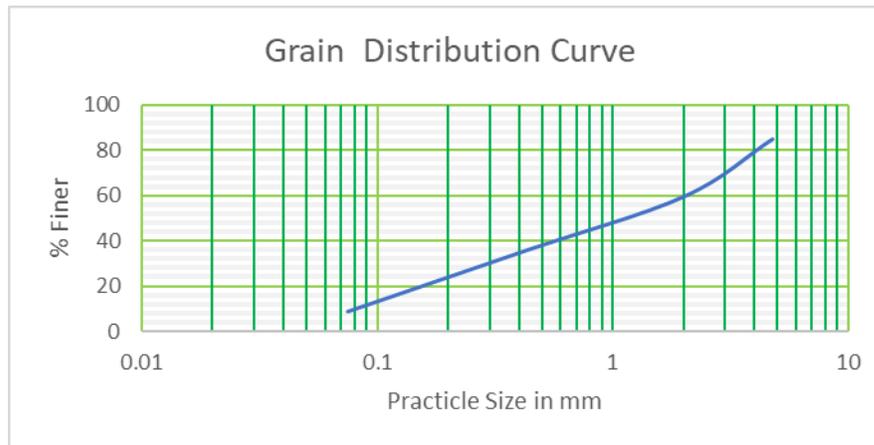
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	85
	2.00 mm		59.5
	0.425 mm		35.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
15	25.5	24	27	8.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

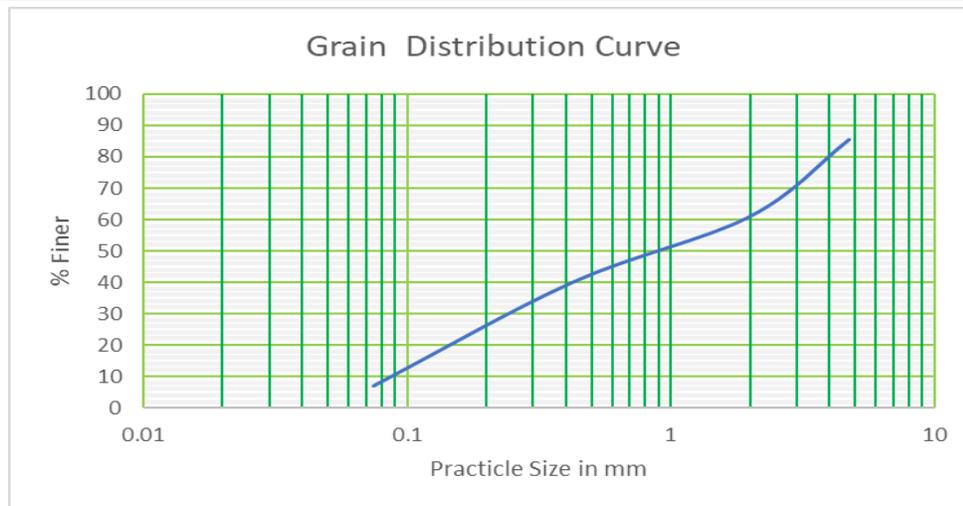
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	85.5
	2.00 mm		61
	0.425 mm		40
	0.075 mm		7

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
14.5	24.5	21	33	7



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

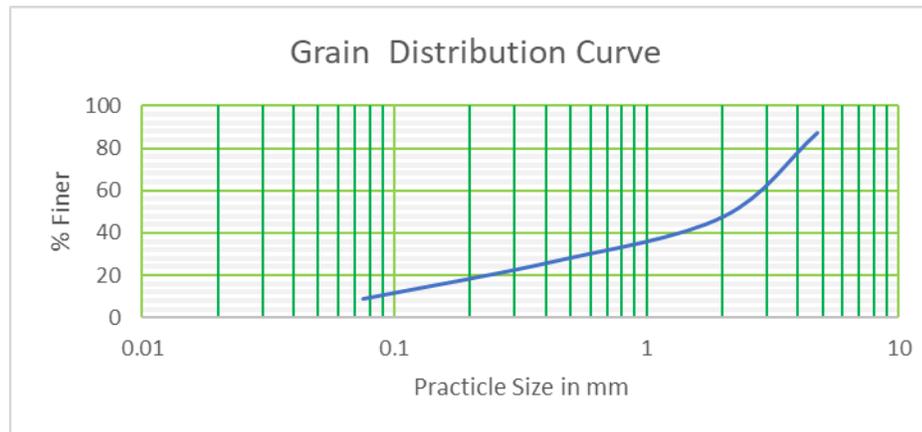
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		47.5
	0.425 mm		26.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	39.5	21	17.5	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

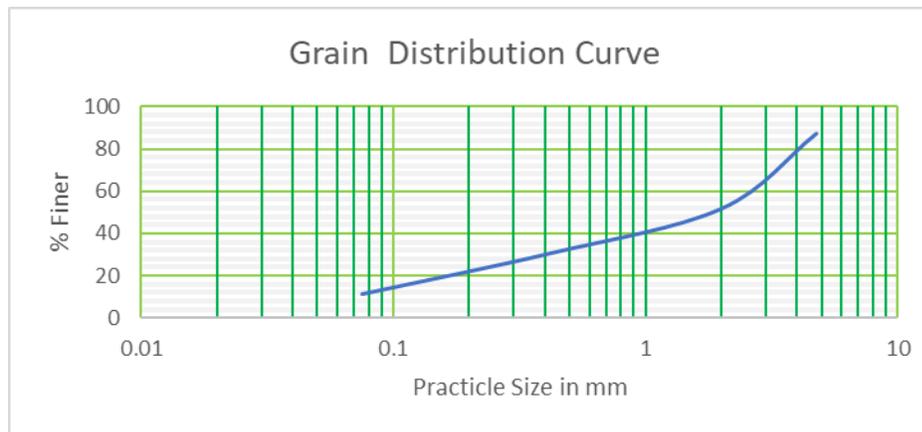
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		51.5
	0.425 mm		30.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	35.5	21	19.5	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

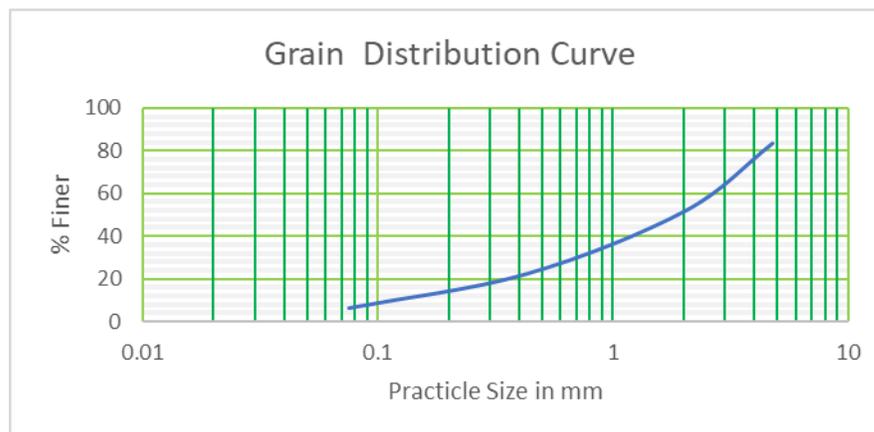
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	83.5
	2.00 mm		51.5
	0.425 mm		22
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16.5	32	29.5	16	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

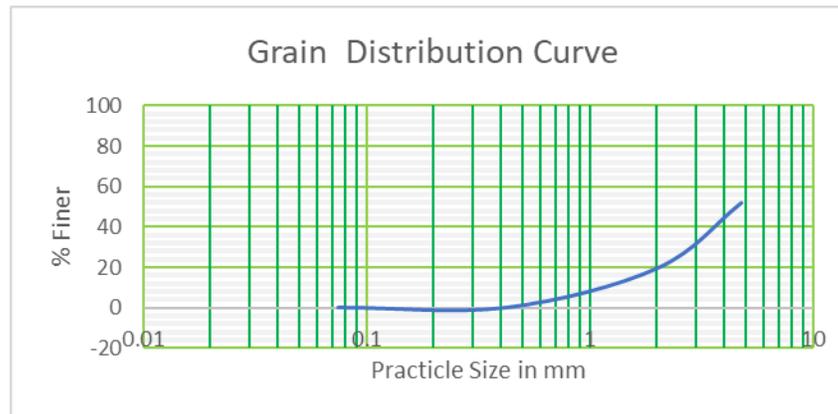
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	52
	2.00 mm		19.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
48	32.5	19.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-5 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

Geo Environs Private Limited.

Report No.: GSRL/100226/02

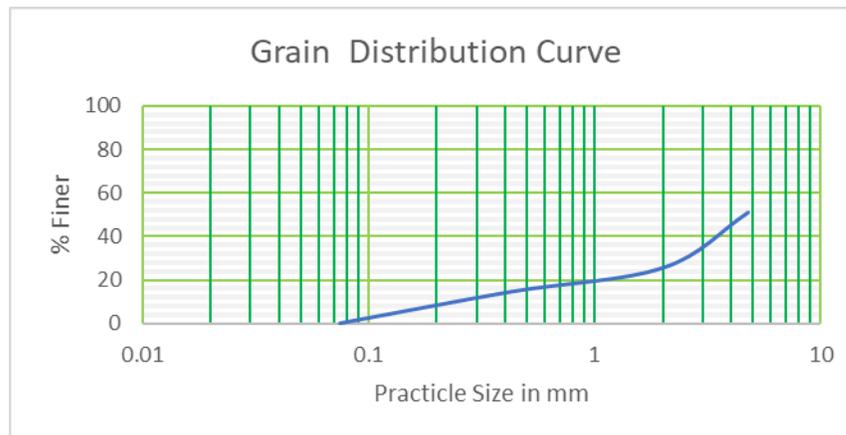
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	51
	2.00 mm		25.5
	0.425 mm		14.5
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
49	25.5	11	14.5	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

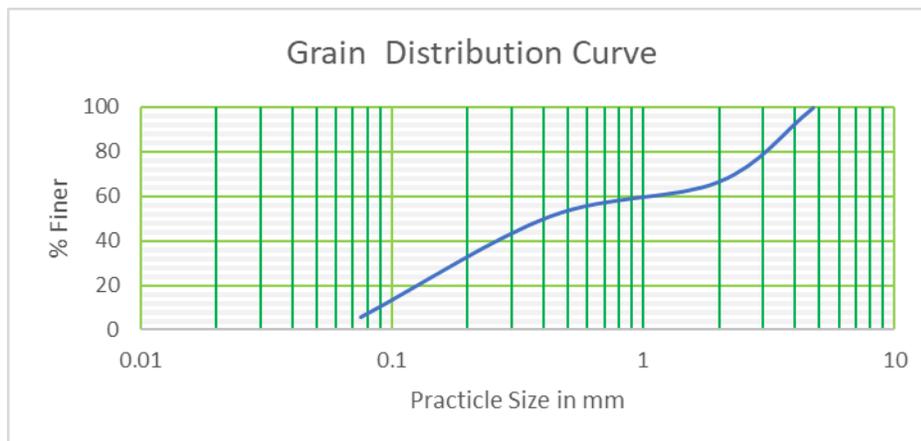
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	99.5
	2.00 mm		66.5
	0.425 mm		51
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
0.5	33	15.5	45	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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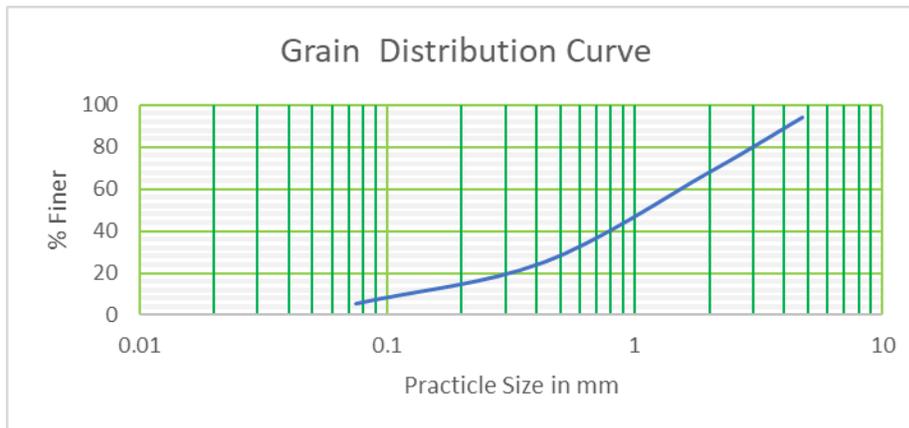
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94
	2.00 mm		68
	0.425 mm		25
	0.075 mm		5.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6	26	43	19.5	5.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

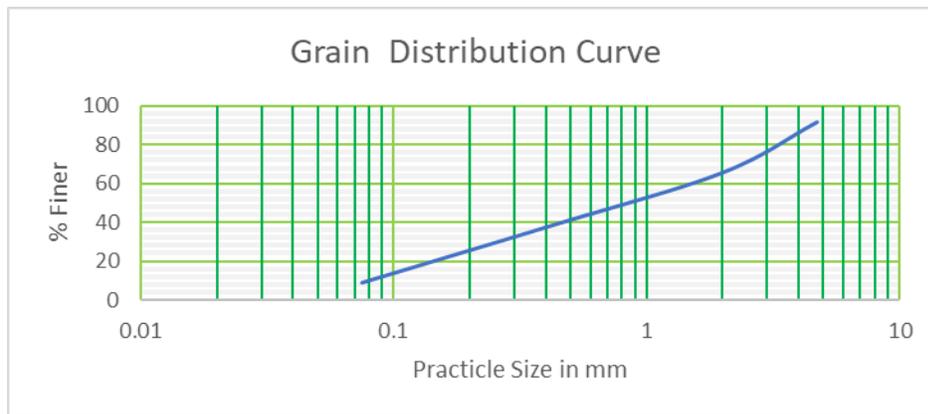
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	91.5
	2.00 mm		65.5
	0.425 mm		38.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
8.5	26	27	29.5	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

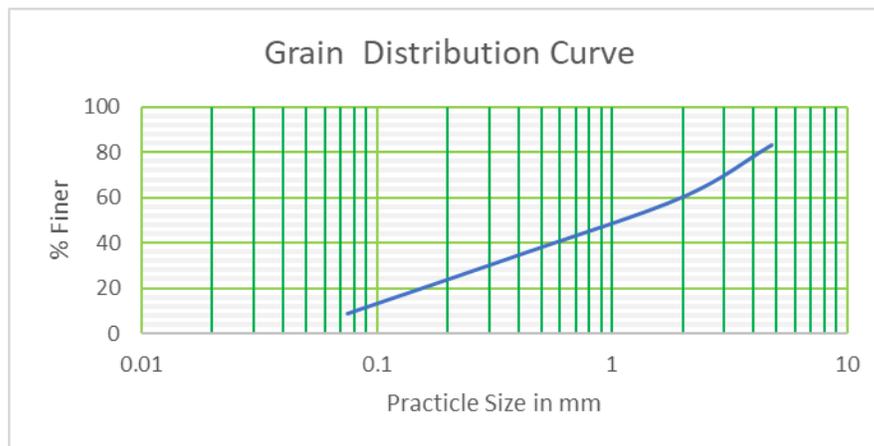
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	83.5
	2.00 mm		60.5
	0.425 mm		35.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16.5	23	25	27	8.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
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3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

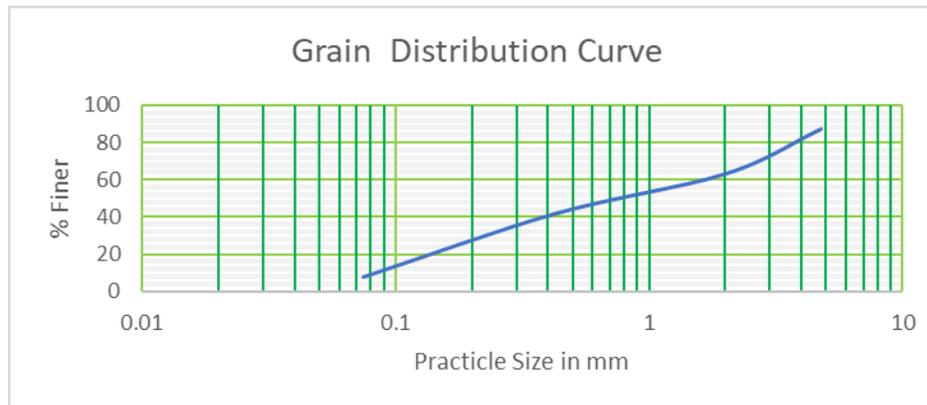
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87.5
	2.00 mm		63.5
	0.425 mm		42
	0.075 mm		8

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
12.5	24	21.5	34	8



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

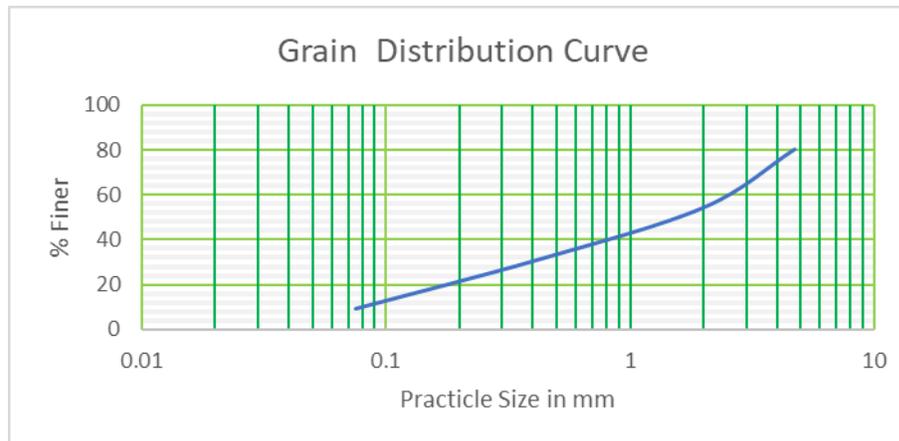
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80.5
	2.00 mm		54.5
	0.425 mm		31.5
	0.075 mm		9.5

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
19.5	26	23	22	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

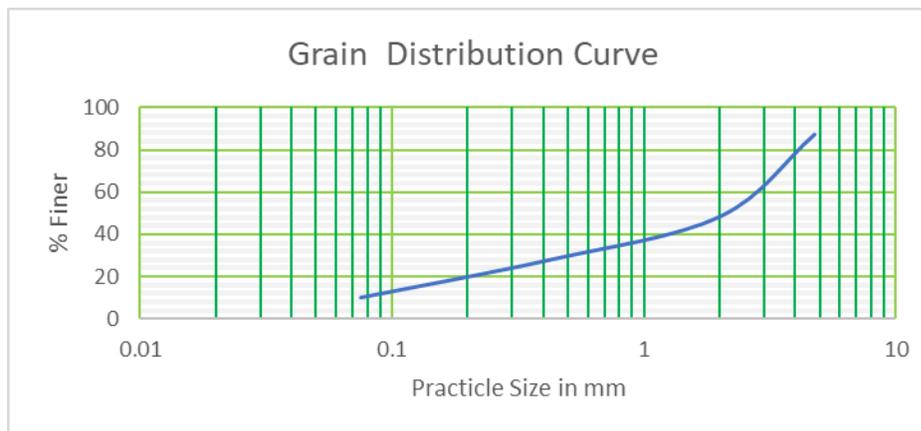
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87.5
	2.00 mm		48.5
	0.425 mm		28
	0.075 mm		10

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
12.5	39	20.5	18	10



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

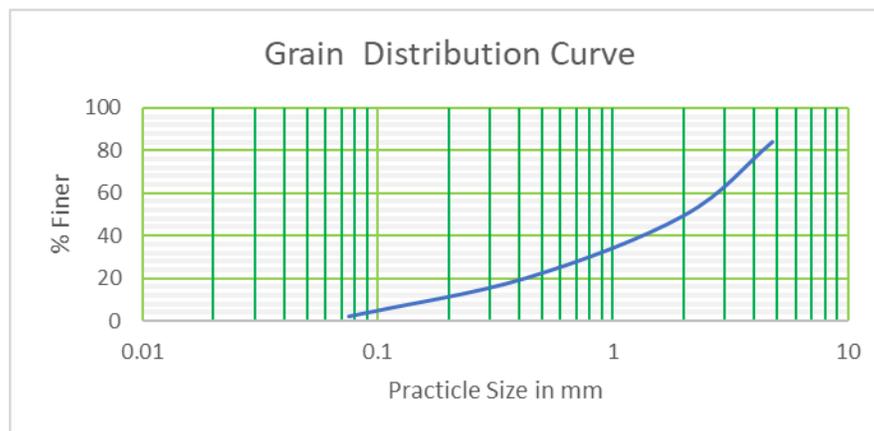
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	84
	2.00 mm		49.5
	0.425 mm		20
	0.075 mm		2

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16	34.5	29.5	18	2



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

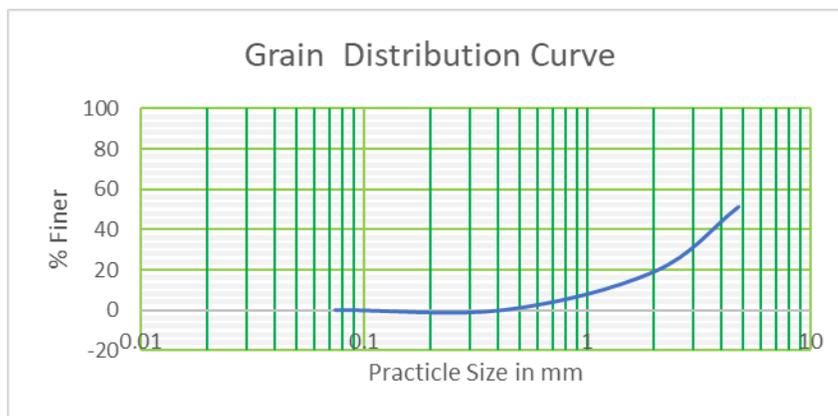
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	51
	2.00 mm		19
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
49	32	19	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-6 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

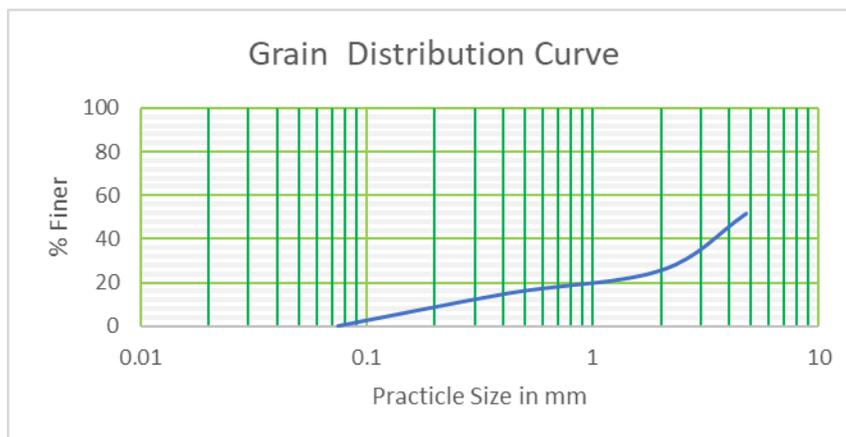
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	51.5
	2.00 mm		25.5
	0.425 mm		15
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
48.5	26	10.5	15	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

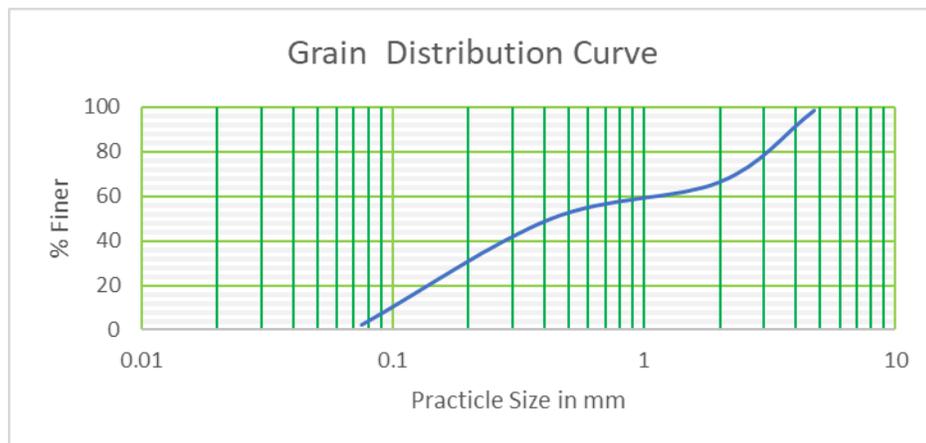
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	98.5
	2.00 mm		66.5
	0.425 mm		50
	0.075 mm		2.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
1.5	32	16.5	47.5	2.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

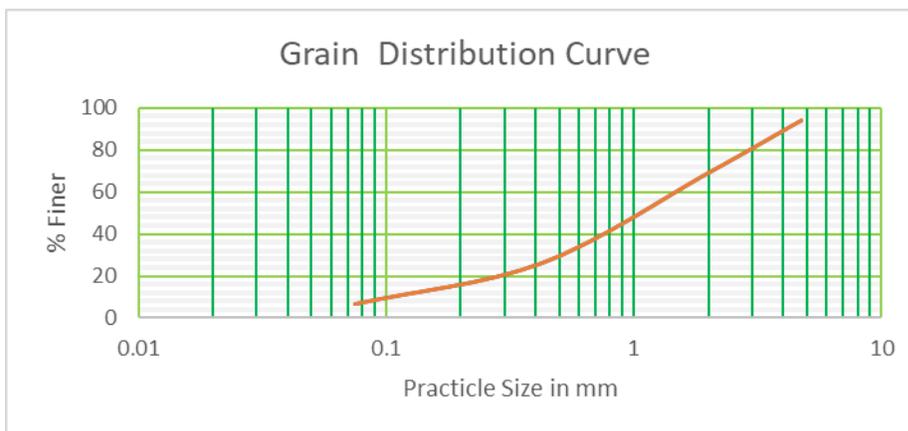
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94
	2.00 mm		69
	0.425 mm		26
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6	25	43	19.5	6.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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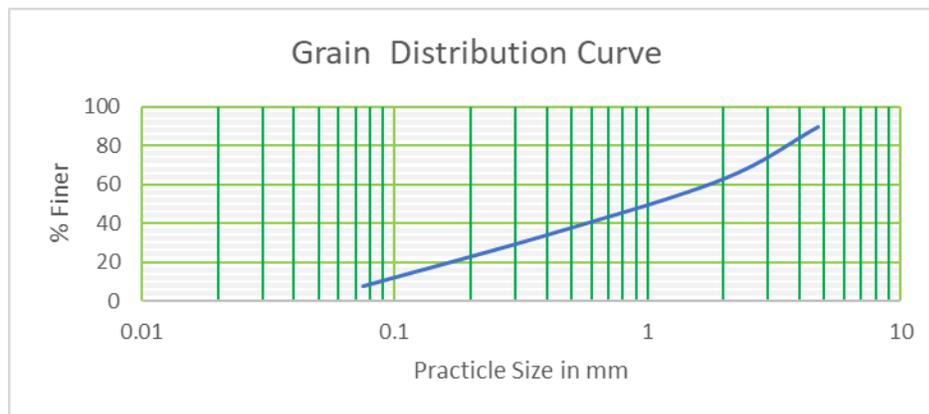
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	90
	2.00 mm		63
	0.425 mm		35
	0.075 mm		7.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
10	27	28	27.5	7.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil BH-7 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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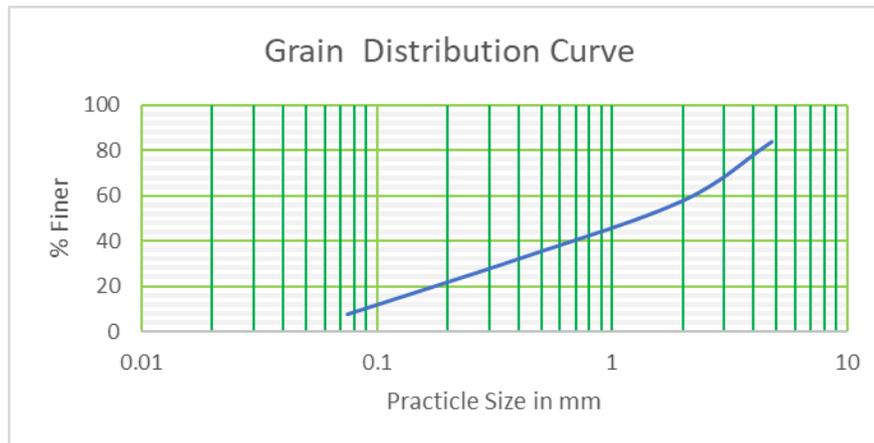
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	84
	2.00 mm		58
	0.425 mm		33
	0.075 mm		7.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16	26	25	25.5	7.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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TEST REPORT

Description of Sample: Soil BH-7 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

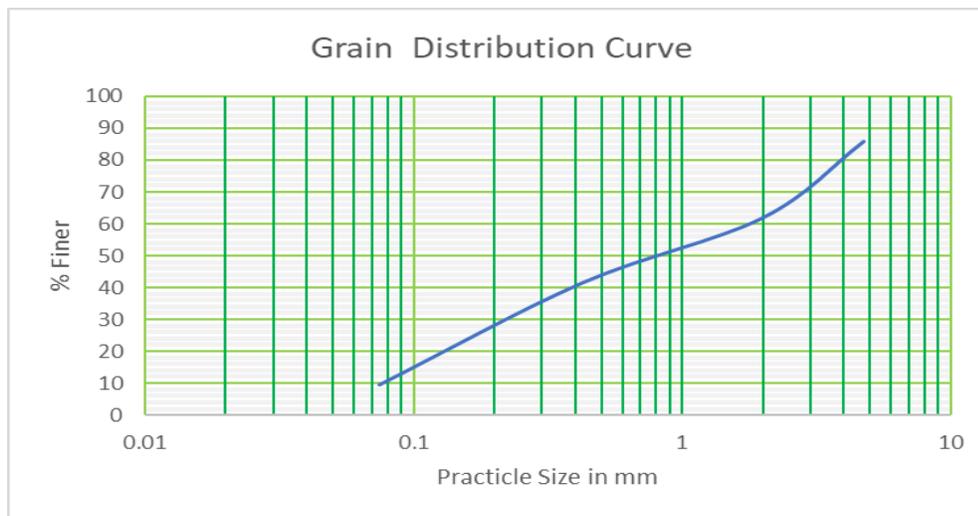
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	86
	2.00 mm		62
	0.425 mm		41.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
14	24	20.5	32	9.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

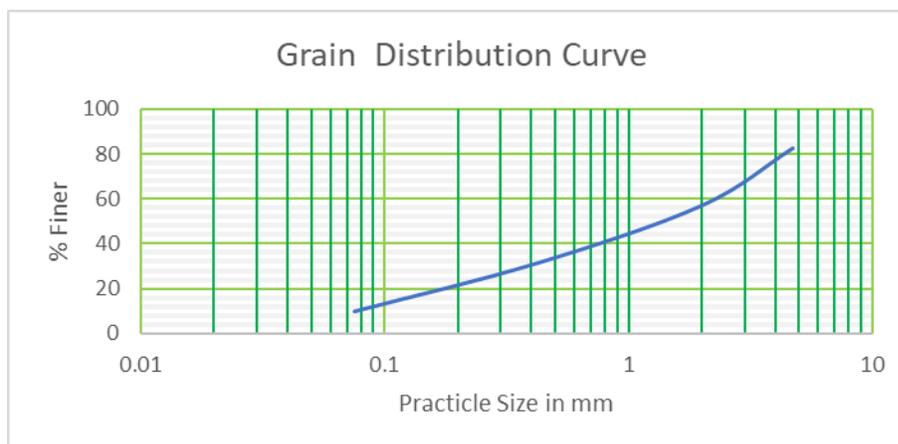
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82.5
	2.00 mm		57
	0.425 mm		31.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
17.5	25.5	25.5	21.5	10



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

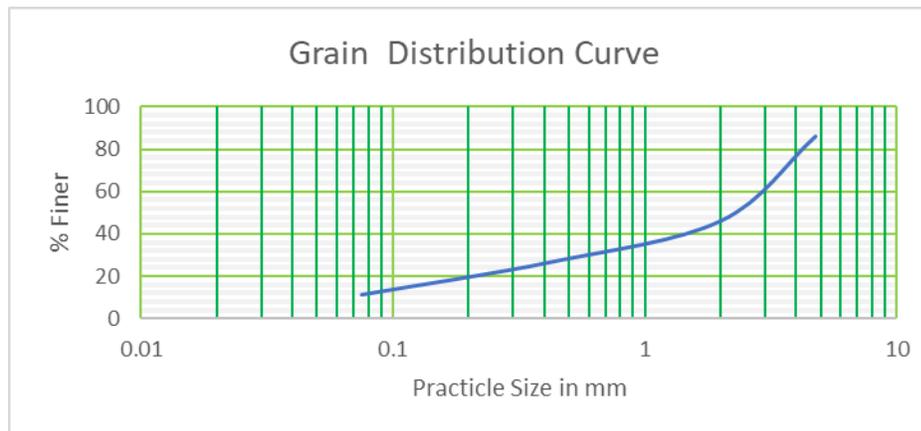
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	86
	2.00 mm		46
	0.425 mm		26.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
14	40	19.5	15.5	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

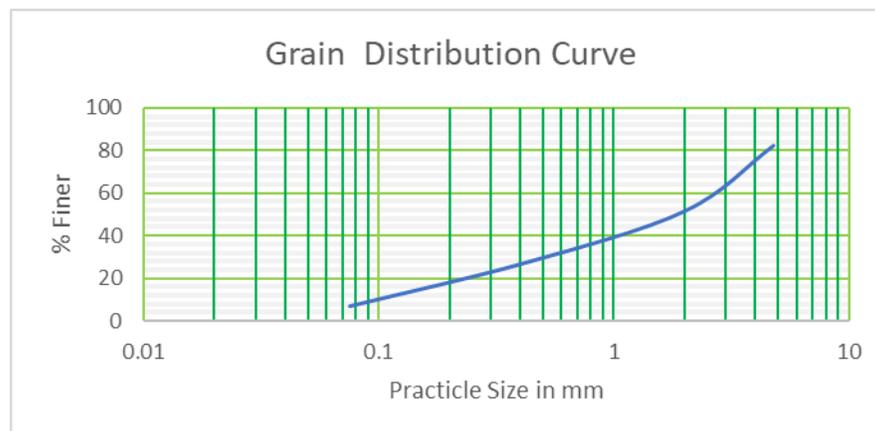
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		51.5
	0.425 mm		27.5
	0.075 mm		7

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	30.5	24	20.5	7



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

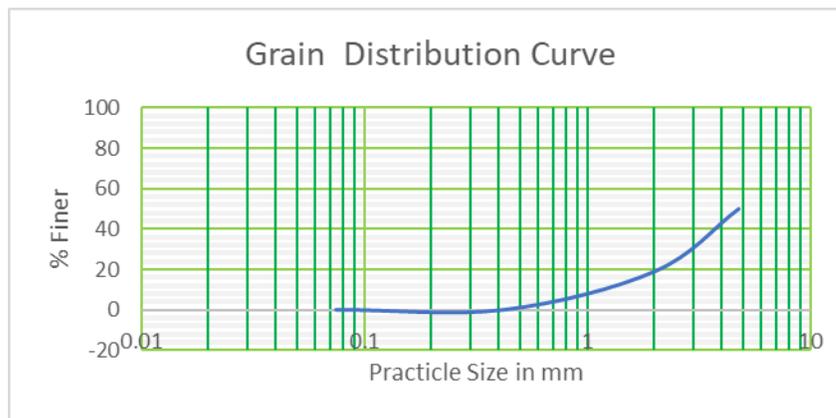
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	50
	2.00 mm		19
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
50	31	19	0	0



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-7 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

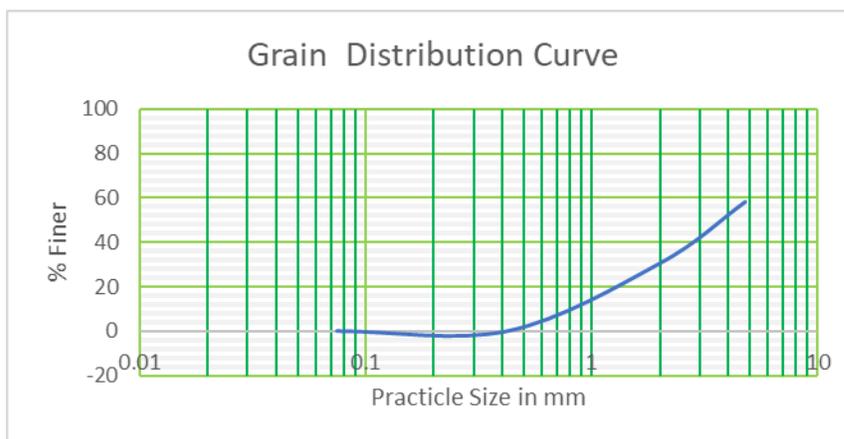
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	58
	2.00 mm		30.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
42	27.5	30.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

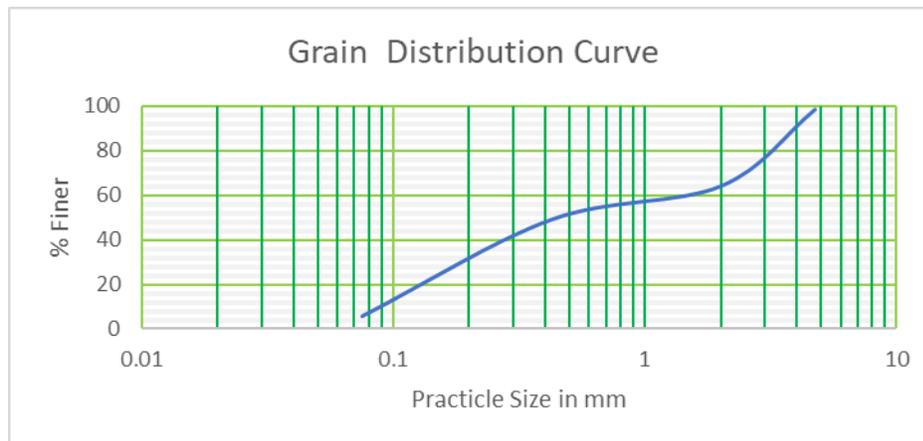
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	98.5
	2.00 mm		64
	0.425 mm		49
	0.075 mm		5.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
1.5	34.5	15	43.5	5.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

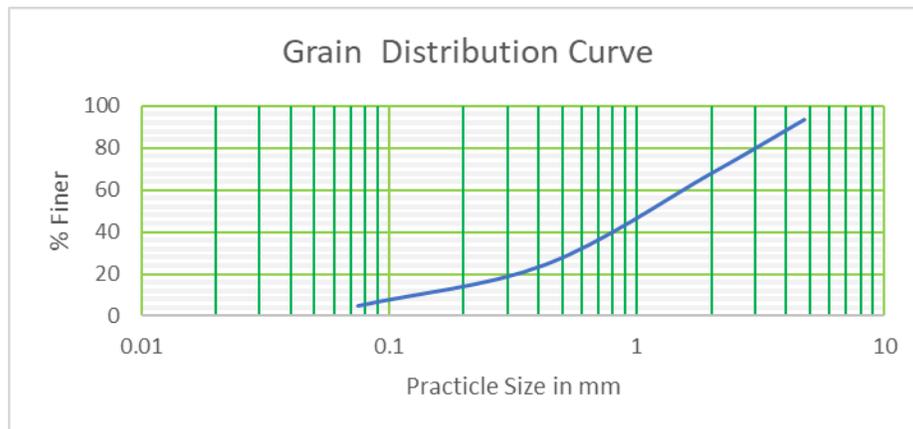
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	93.5
	2.00 mm		68
	0.425 mm		24.5
	0.075 mm		5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6.5	25.5	43.5	19.5	5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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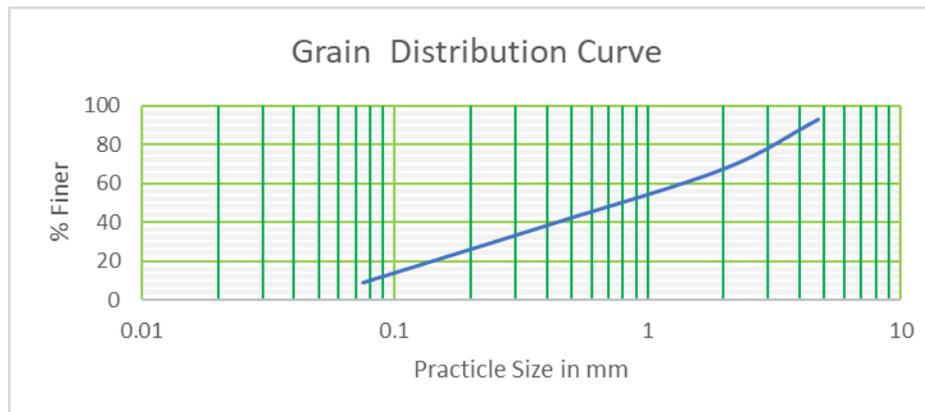
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	93
	2.00 mm		67.5
	0.425 mm		39.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
7	25.5	28	30.5	9



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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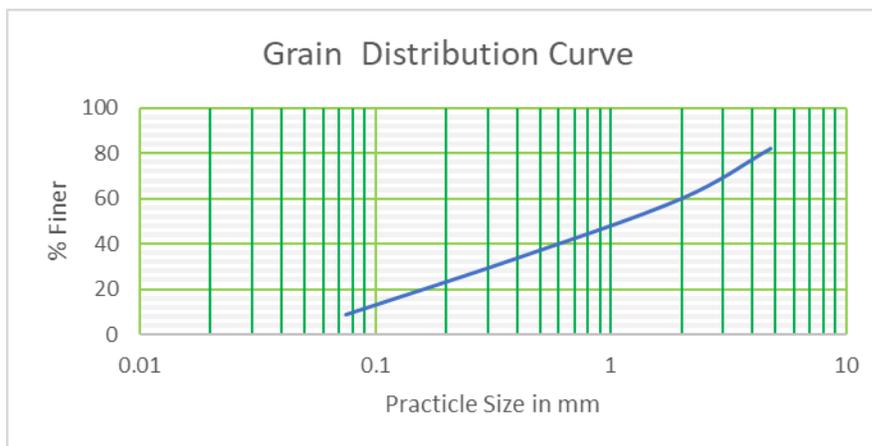
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		60
	0.425 mm		34.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	22	25.5	26	8.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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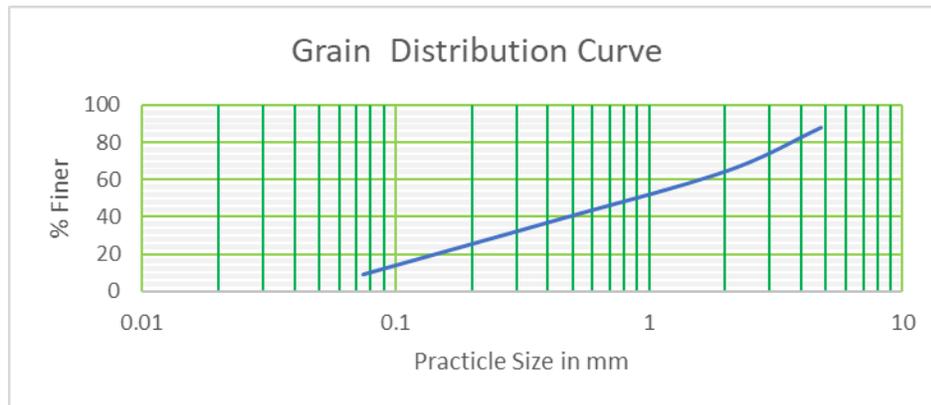
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	88
	2.00 mm		64.5
	0.425 mm		38
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
12	23.5	26.5	29	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil BH-8 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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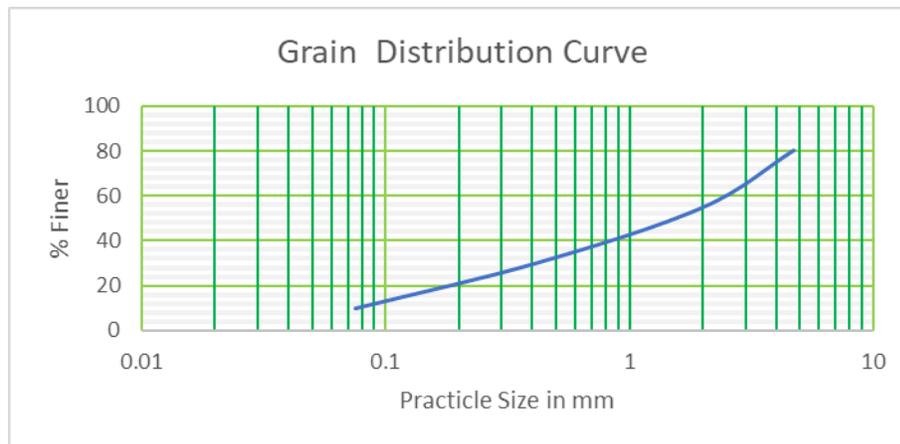
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80.5
	2.00 mm		55
	0.425 mm		30.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19.5	25.5	24.5	20.5	10



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

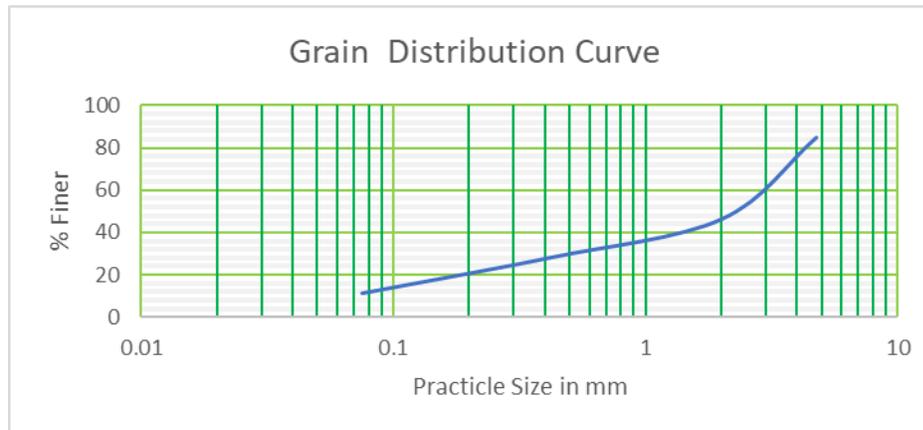
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Met hod	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	85
	2.00 mm		46.5
	0.425 mm		28.5
	0.075 mm		11.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
15	38.5	18	17	11.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

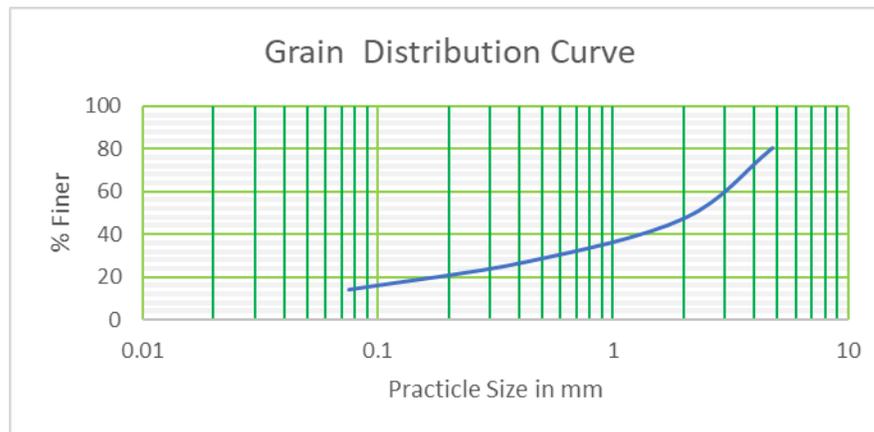
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80.5
	2.00 mm		47.5
	0.425 mm		27
	0.075 mm		14

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
19.5	33	20.5	13	14



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

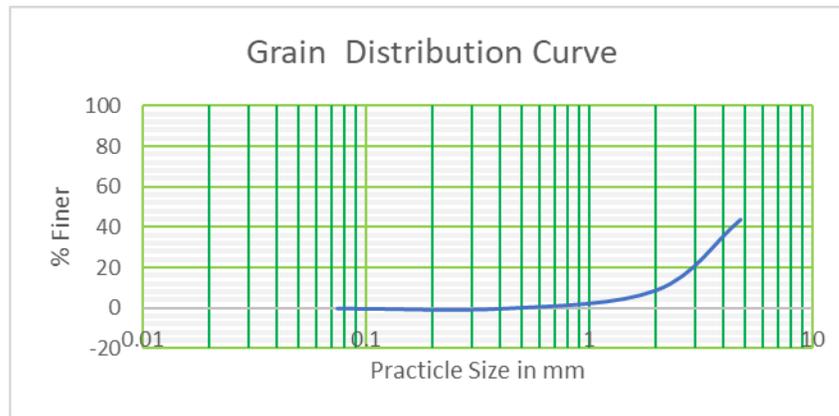
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	43.5
	2.00 mm		9
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
56.5	34.5	9	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-8 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

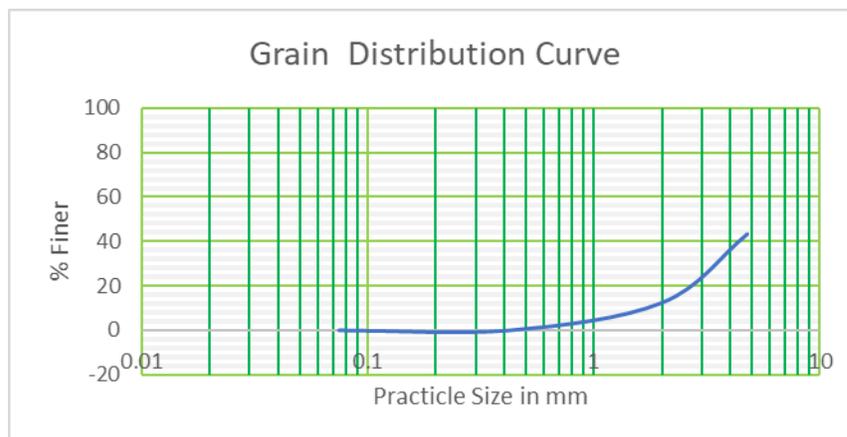
Date of Issue of Report: 20/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	43.5
	2.00 mm		12.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
56.5	31	12.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

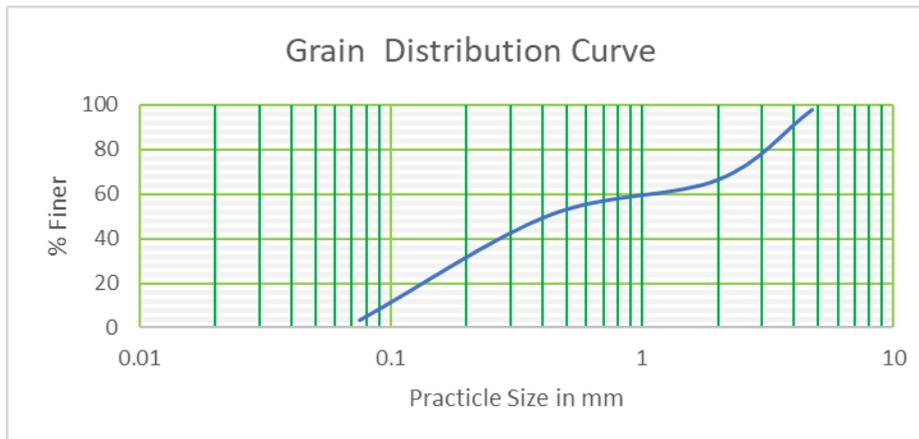
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	98
	2.00 mm		66.5
	0.425 mm		50.5
	0.075 mm		3.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2	31.5	16	47	3.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

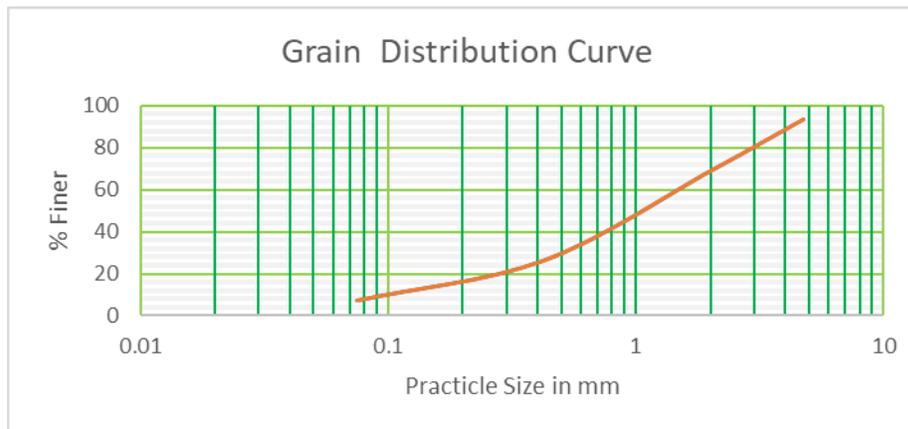
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	93.5
	2.00 mm		69
	0.425 mm		26.5
	0.075 mm		7.5

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
6.5	24.5	42.5	19	7.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

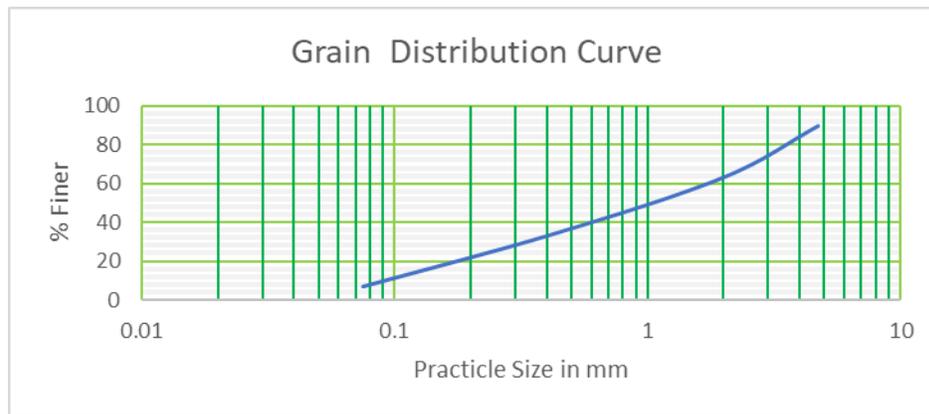
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89.5
	2.00 mm		63
	0.425 mm		34
	0.075 mm		7

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
10.5	26.5	29	27	7



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

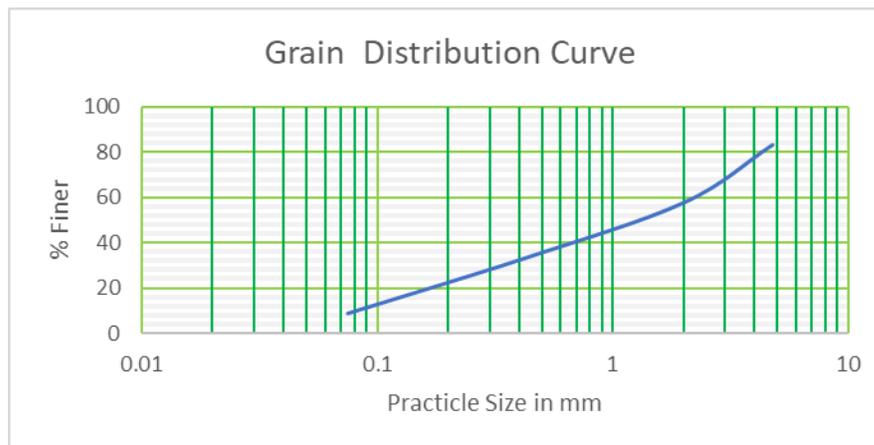
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	83.5
	2.00 mm		58
	0.425 mm		33.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16.5	25.5	24.5	24.5	9



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

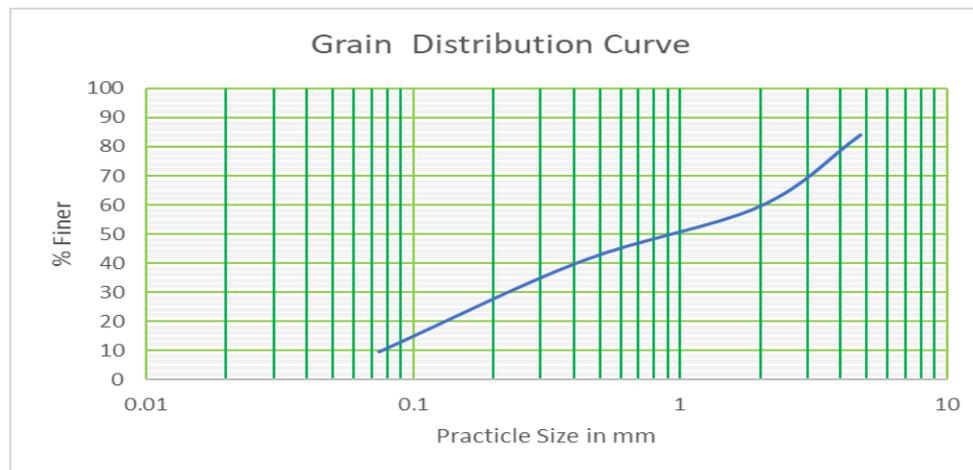
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	84
	2.00 mm		59.5
	0.425 mm		40.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16	24.5	19	31	9.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.. .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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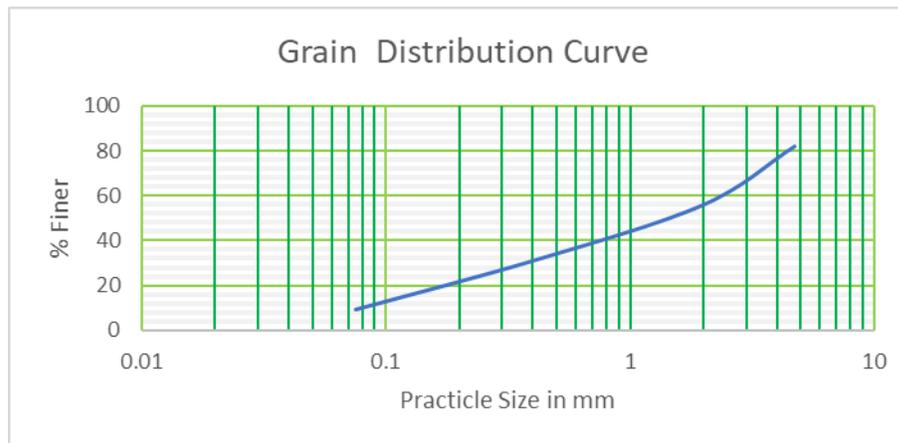
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		56
	0.425 mm		32
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	26	24	22.5	9.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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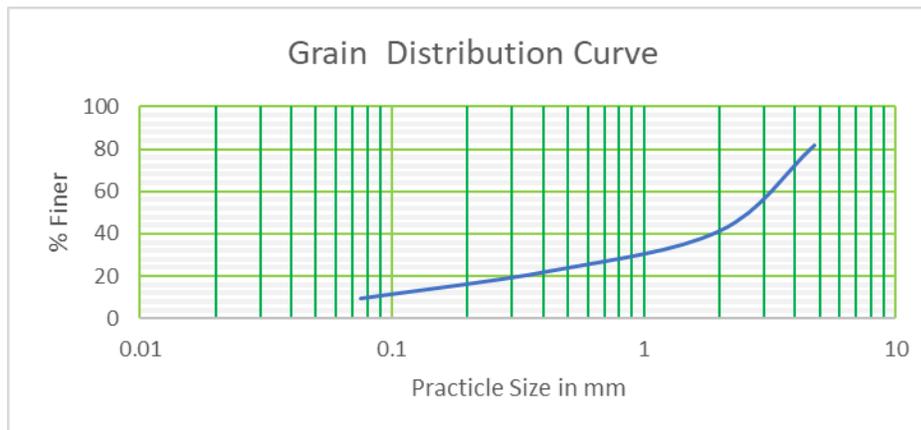
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Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Met hod	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		41.5
	0.425 mm		22.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	40.5	19	13	9.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

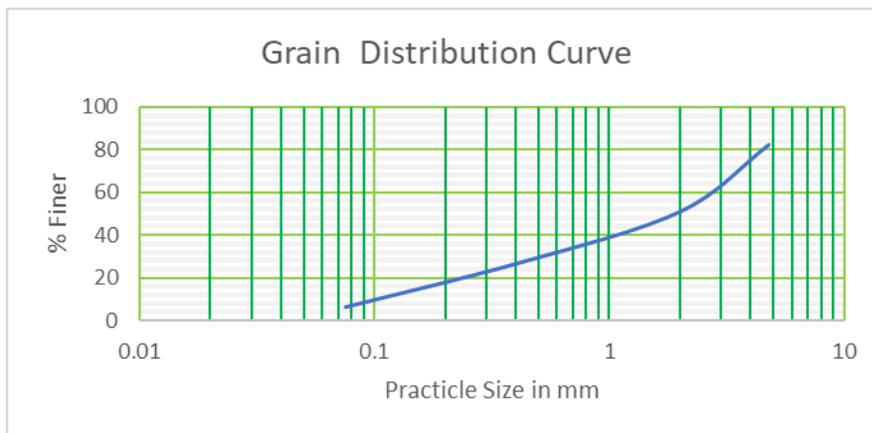
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		51
	0.425 mm		27.5
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	31	23.5	21	6.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

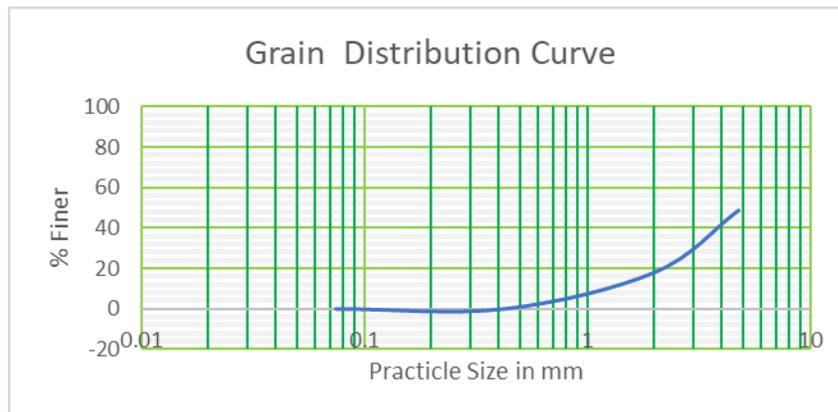
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	48.5
	2.00 mm		18
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
51.5	30.5	18	0	0



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-9 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

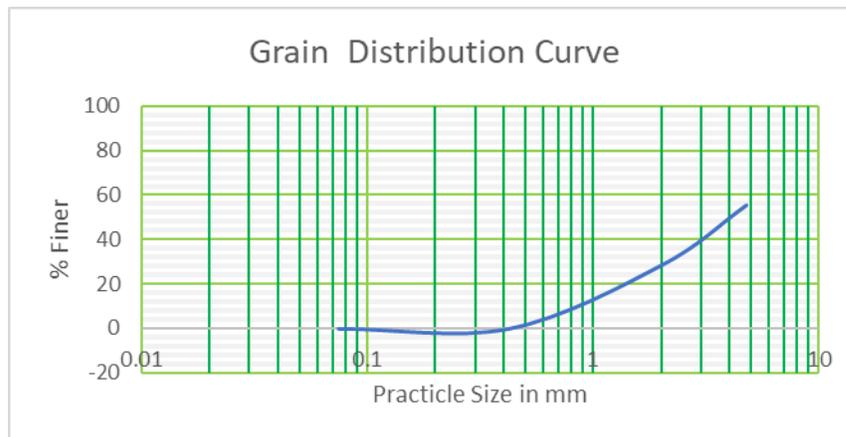
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	55.5
	2.00 mm		28.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95 Fine	Silt & Clay
	Coarse	Medium		
44.5	27	28.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

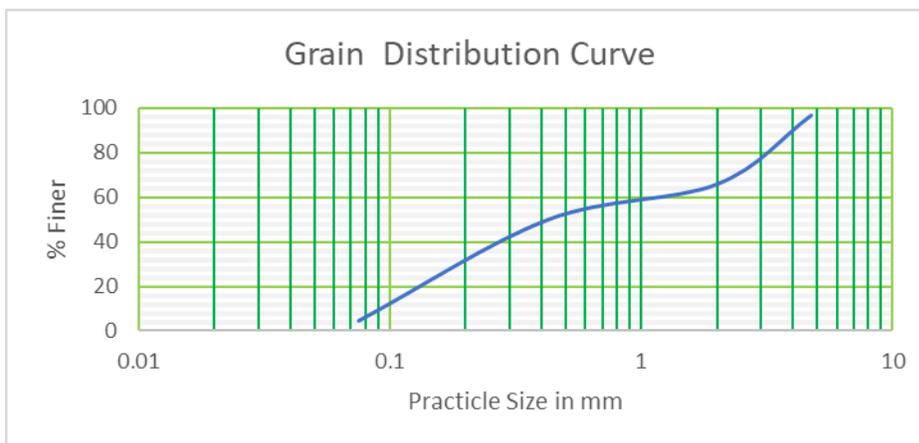
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97
	2.00 mm		66
	0.425 mm		50
	0.075 mm		4.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
3	31	16	45.5	4.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

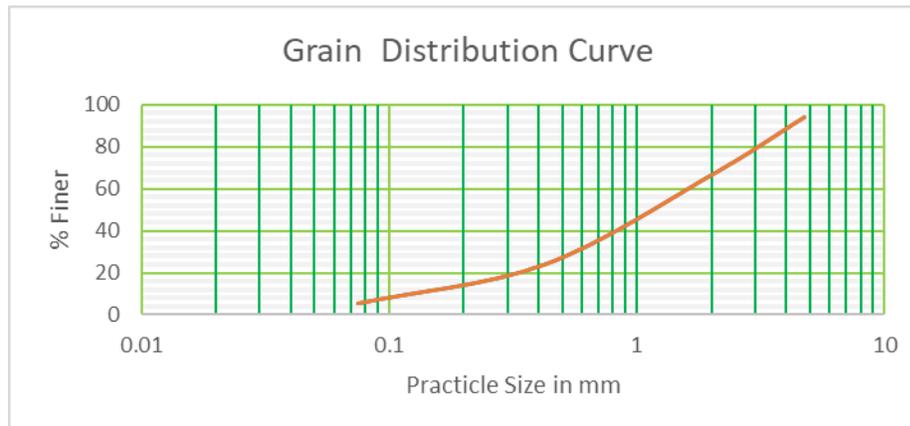
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94
	2.00 mm		66.5
	0.425 mm		24
	0.075 mm		5.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6	27.5	42.5	18.5	5.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

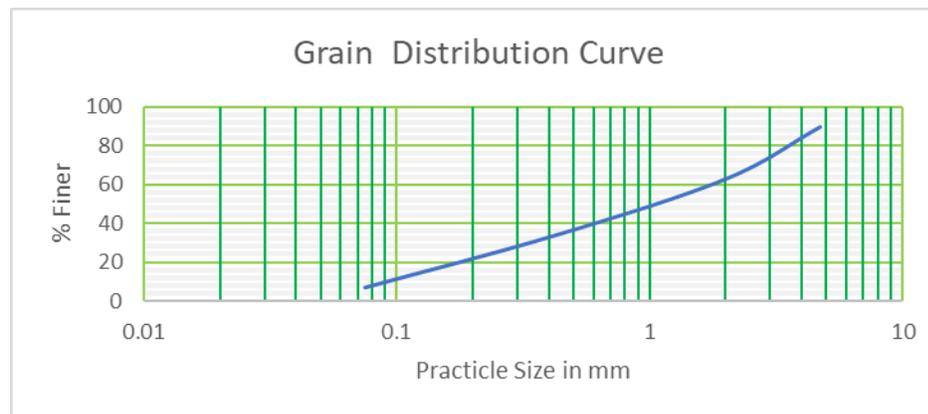
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	90
	2.00 mm		63
	0.425 mm		34
	0.075 mm		7

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
10	27	29	27	7



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

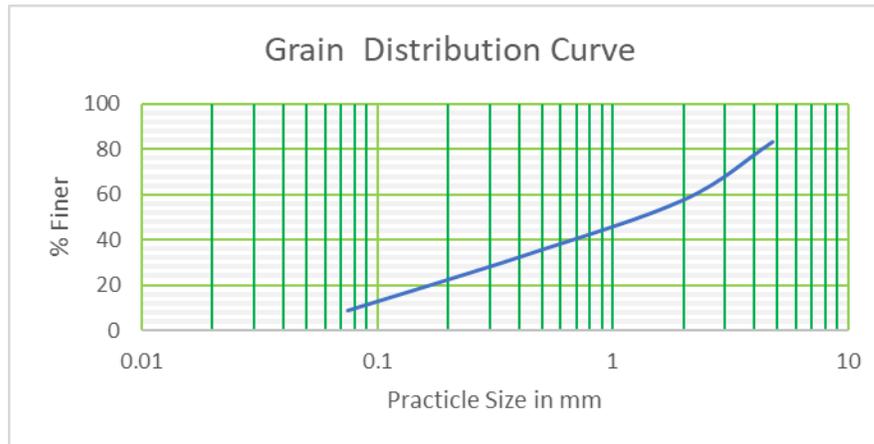
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	83.5
	2.00 mm		58
	0.425 mm		33.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16.5	25.5	24.5	24.5	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

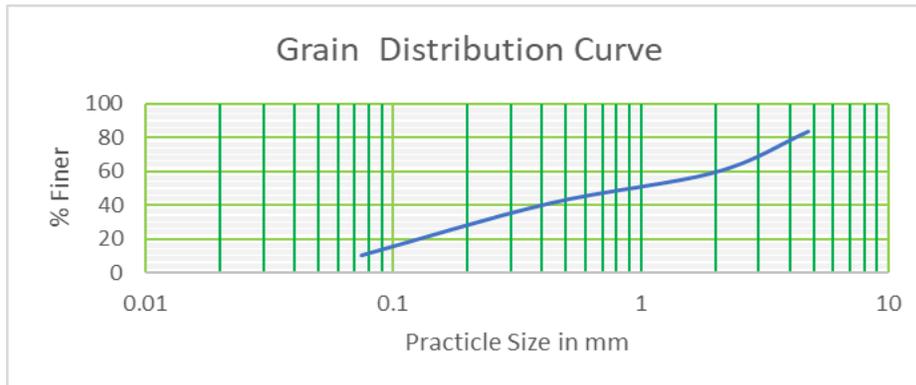
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	83.5
	2.00 mm		59.5
	0.425 mm		41
	0.075 mm		10.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16.5	24	18.5	30.5	10.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

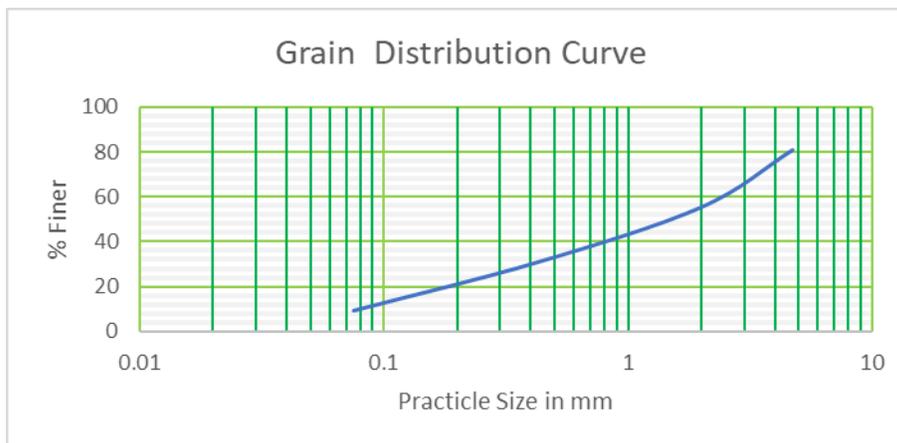
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81
	2.00 mm		55.5
	0.425 mm		31
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19	25.5	24.5	21.5	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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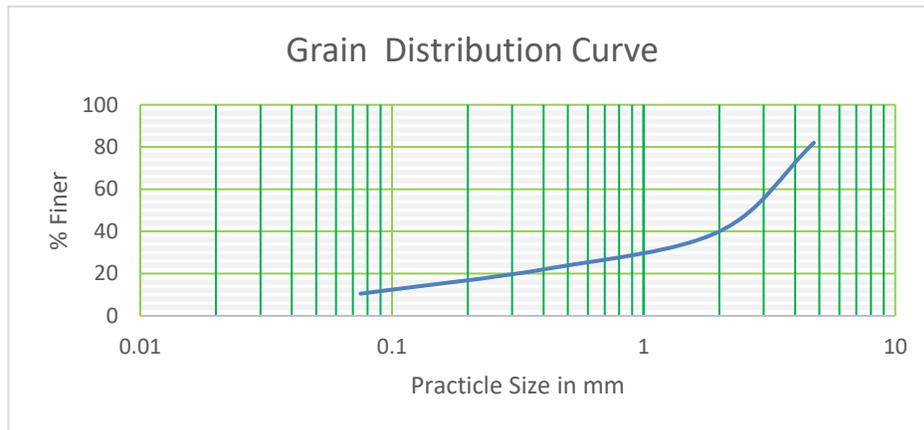
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		40
	0.425 mm		22.5
	0.075 mm		10.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	42	17.5	12	10.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: .: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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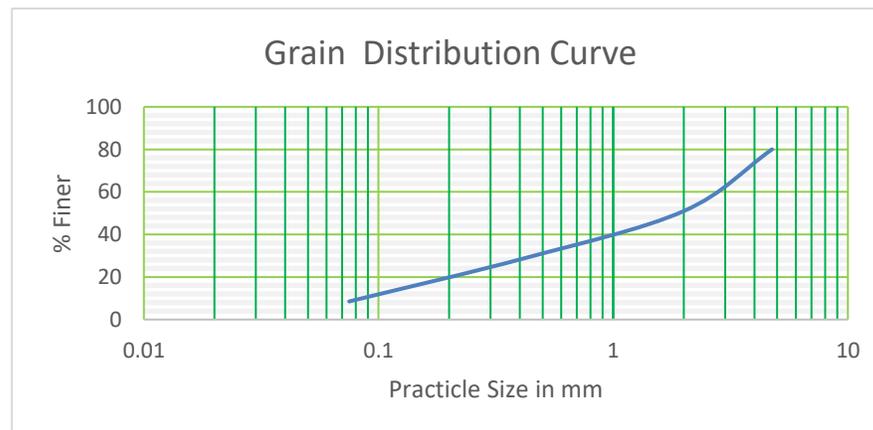
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80
	2.00 mm		51
	0.425 mm		29
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
20	29	22	20.5	8.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

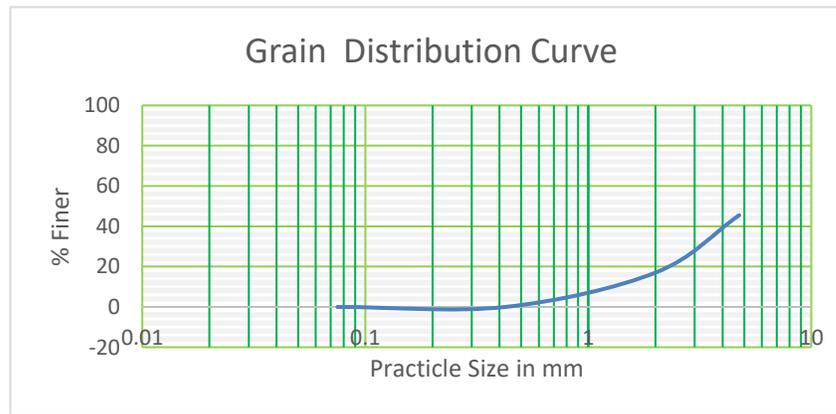
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	45.5
	2.00 mm		17
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
54.5	28.5	17	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-10 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

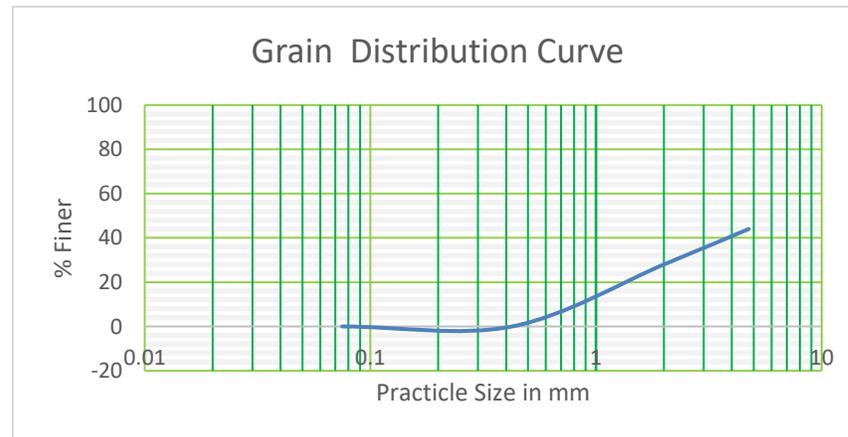
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	44
	2.00 mm		28
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
56	16	28	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (1.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

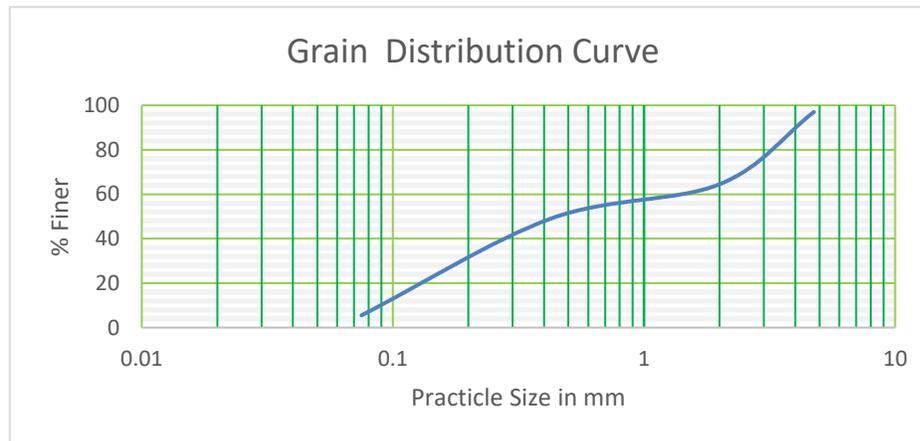
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97
	2.00 mm		64.5
	0.425 mm		49
	0.075 mm		5.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
3	32.5	15.5	43.5	5.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (3.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

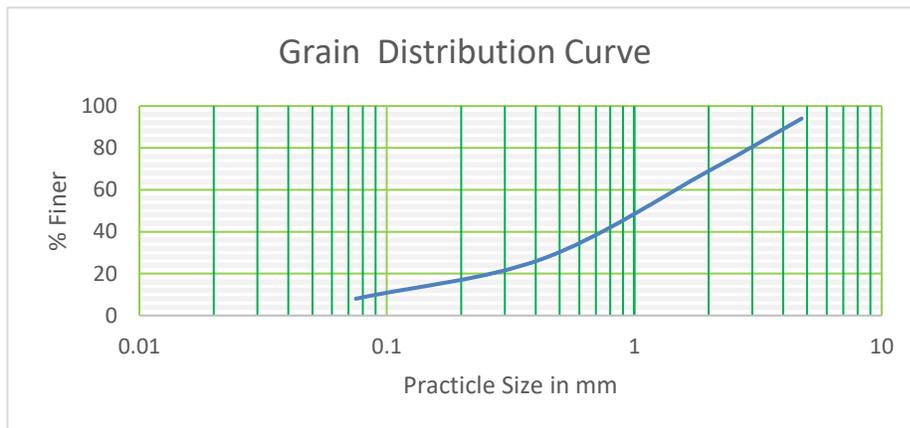
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94
	2.00 mm		69
	0.425 mm		27
	0.075 mm		8

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6	25	42	19	8



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (4.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

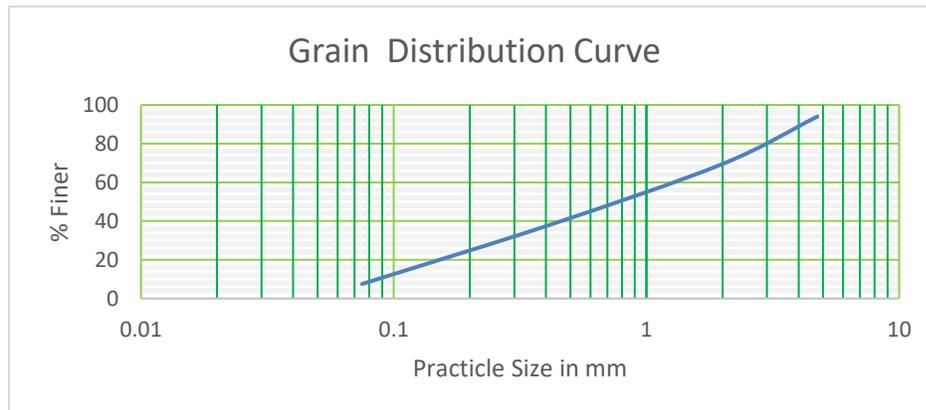
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94
	2.00 mm		69.5
	0.425 mm		38.5
	0.075 mm		7.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6	24.5	31	31	7.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (6.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

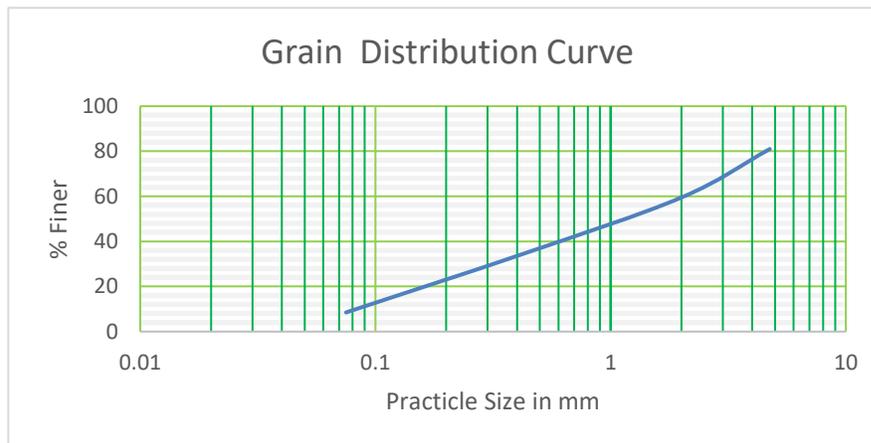
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81
	2.00 mm		59.5
	0.425 mm		34.5
	0.075 mm		8.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19	21.5	25	26	8.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (7.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

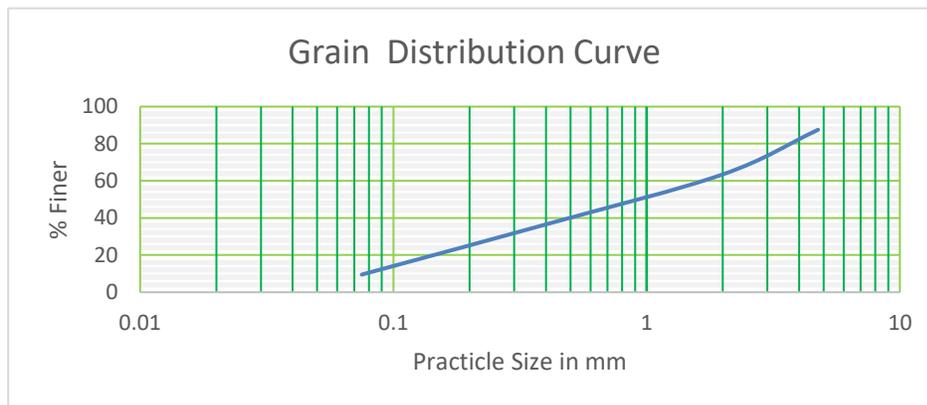
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87.5
	2.00 mm		63.5
	0.425 mm		37.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
12.5	24	26	28	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (9.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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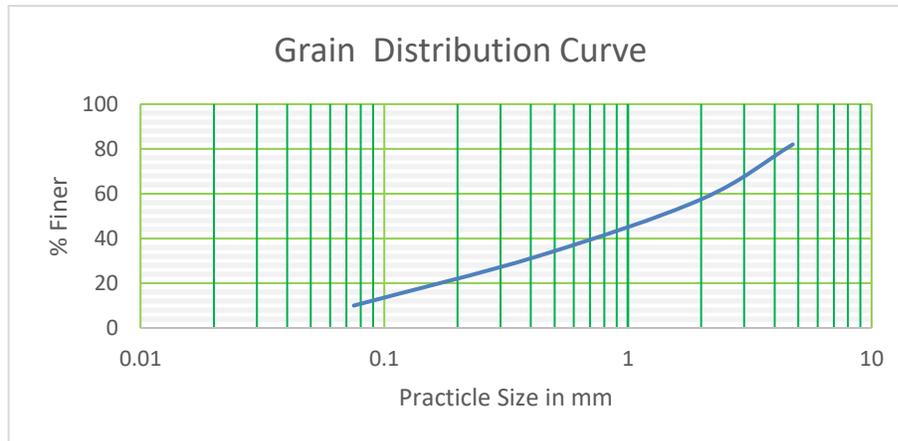
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		57.5
	0.425 mm		32
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	24.5	25.5	22	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (10.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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Report No.: GSRL/100226/02

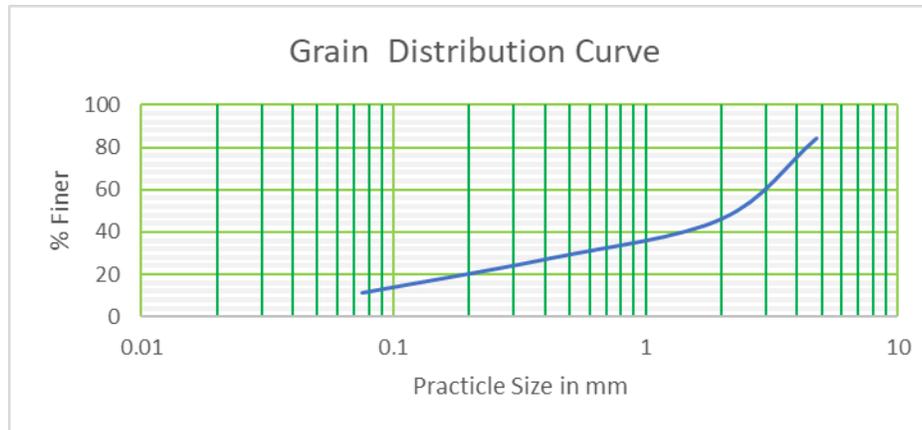
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Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	84
	2.00 mm		46
	0.425 mm		27.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16	38	18.5	16.5	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (12.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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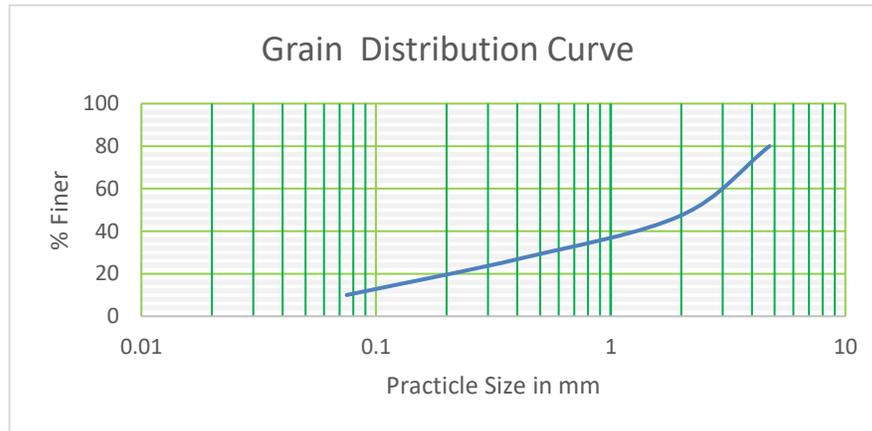
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80
	2.00 mm		47.5
	0.425 mm		27.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
20	32.5	20	17.5	10



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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TEST REPORT

Description of Sample: Soil BH-11 (13.5m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: :: Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

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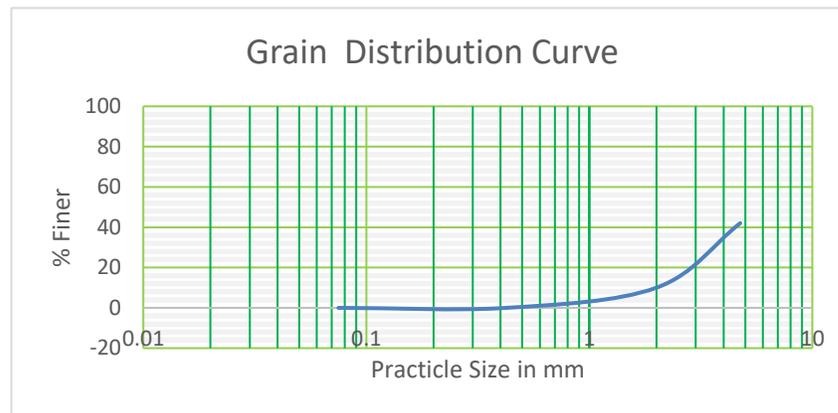
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	42
	2.00 mm		10
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
58	32	10	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-11 (15.0m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: . . : Geotechnical Investigation Work for Proposed Ammonia-Urea Fertilizer Plant of M/S Assam Valley Fertilizer and chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

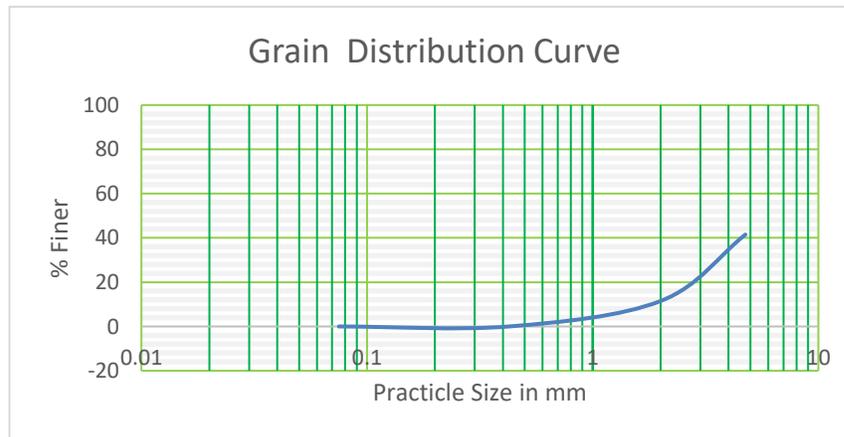
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 10-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	41.5
	2.00 mm		11.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
58.5	30	11.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
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3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
5. This report is not reproduced wholly or in part and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (1.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. : Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

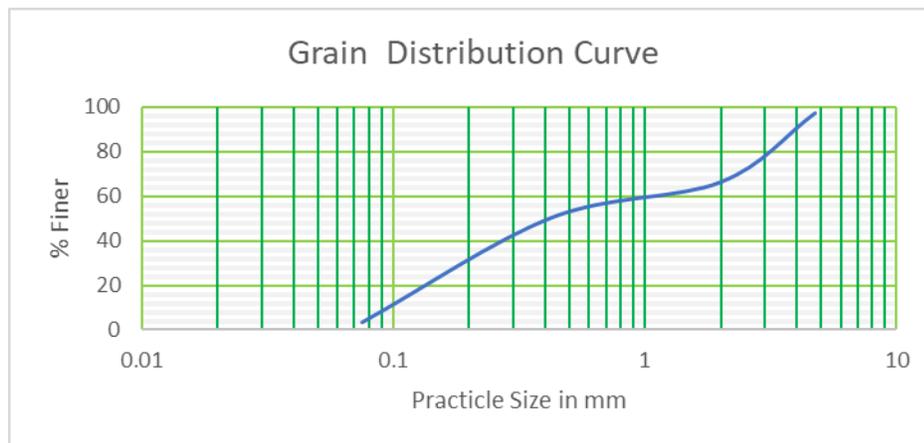
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97.5
	2.00 mm		66.5
	0.425 mm		50.5
	0.075 mm		3.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2.5	31	16	47	3.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH -12 (3.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

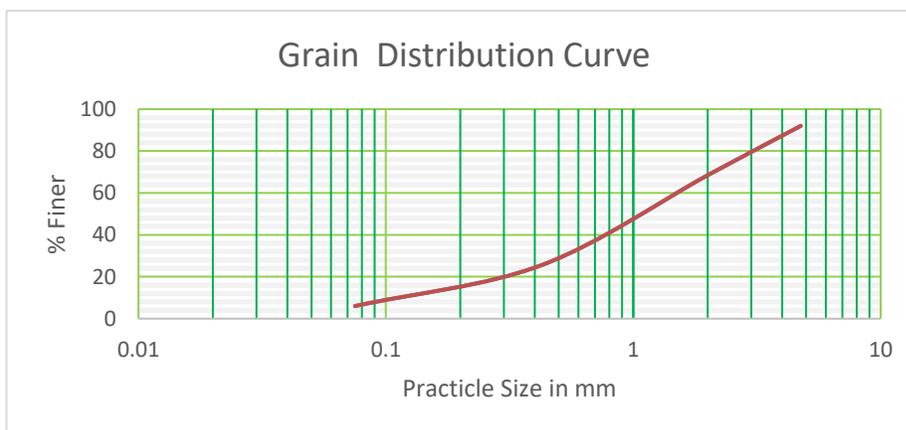
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	92
	2.00 mm		68.5
	0.425 mm		25.5
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
8	23.5	43	19.5	6



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (4.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

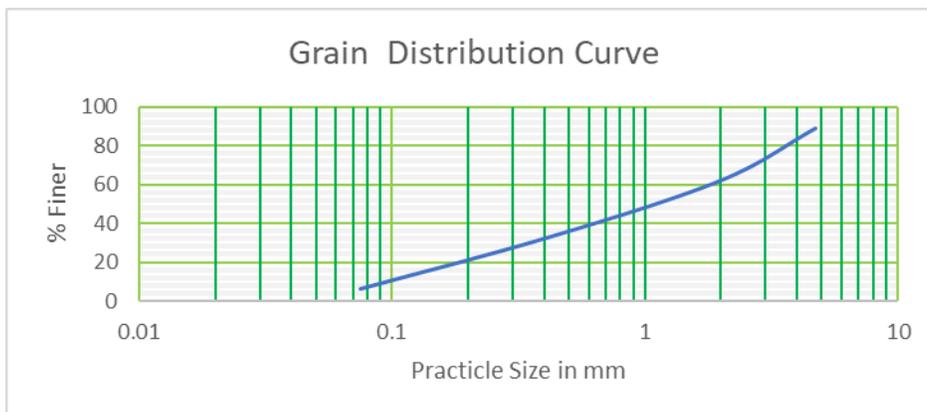
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89
	2.00 mm		62
	0.425 mm		33
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
11	27	29	27	6



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (6.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

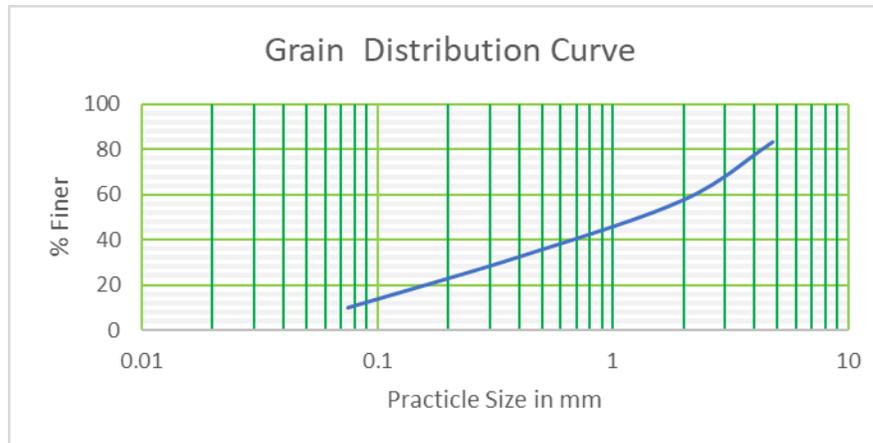
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	83.5
	2.00 mm		58
	0.425 mm		33.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
16.5	25.5	24.5	23.5	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (7.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

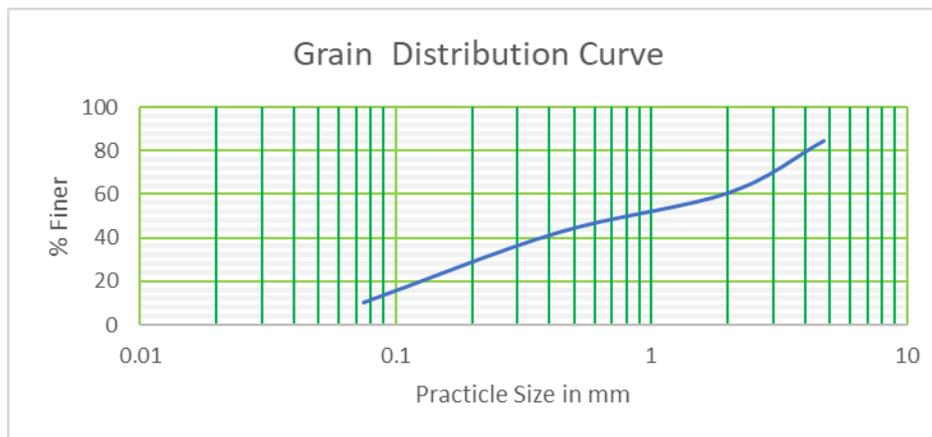
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	84.5
	2.00 mm		60.5
	0.425 mm		42
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
15.5	24	18.5	32	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (9.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

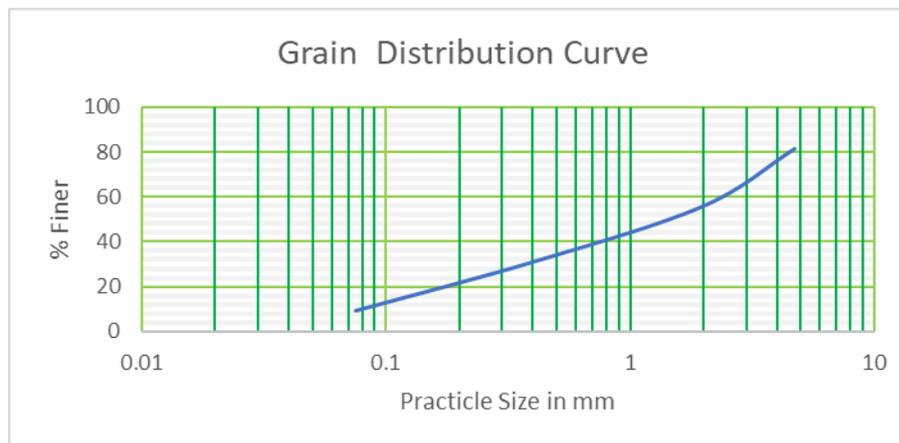
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81.5
	2.00 mm		56
	0.425 mm		32
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18.5	25.5	24	22.5	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (10.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

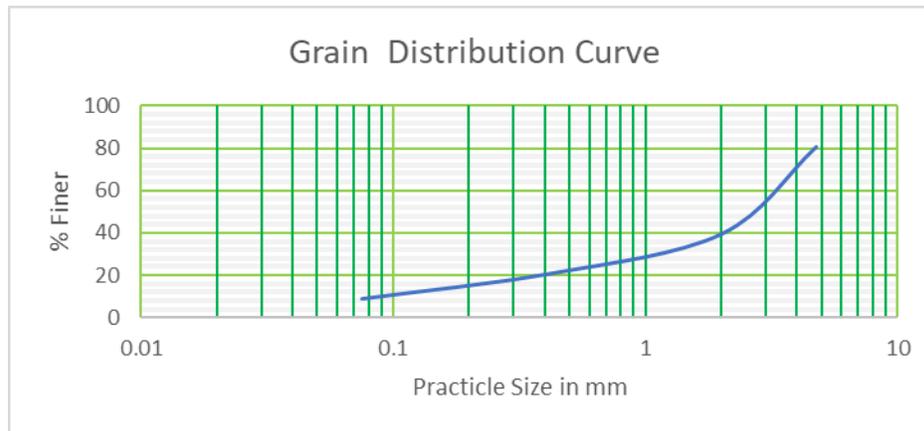
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80.5
	2.00 mm		39.5
	0.425 mm		21
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19.5	41	18.5	12	9



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (12.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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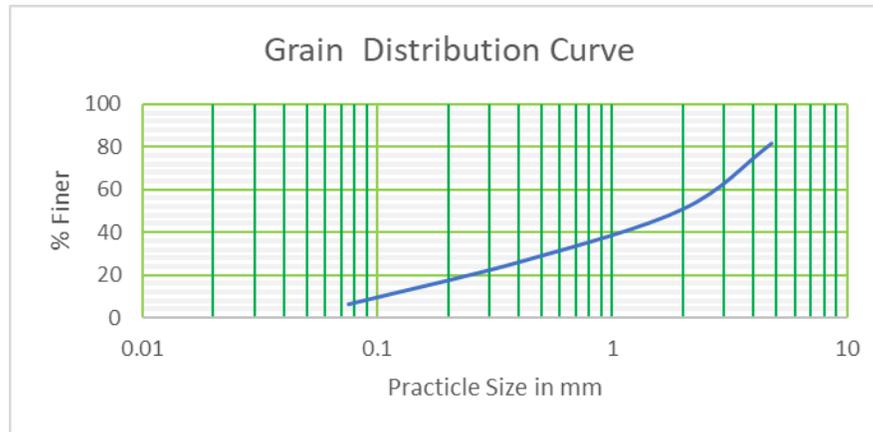
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81.5
	2.00 mm		51
	0.425 mm		27
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18.5	30.5	24	20.5	6.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-12 (15 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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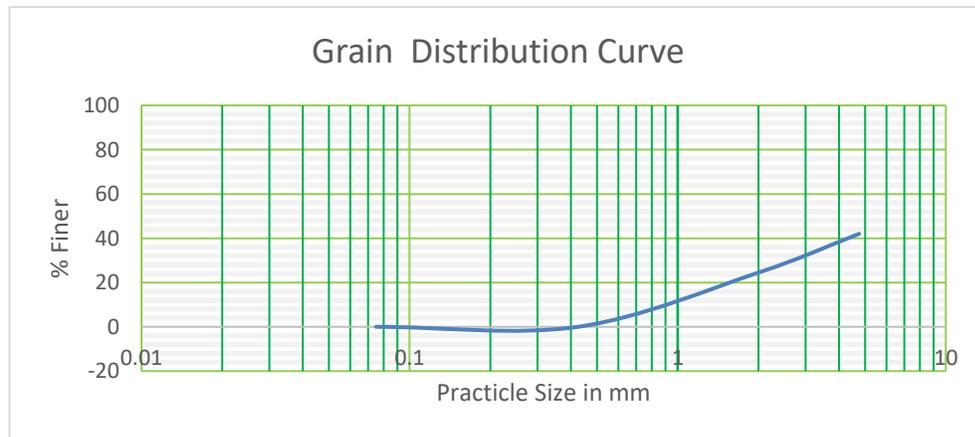
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	42
	2.00 mm		24.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
58	17.5	24.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (1.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

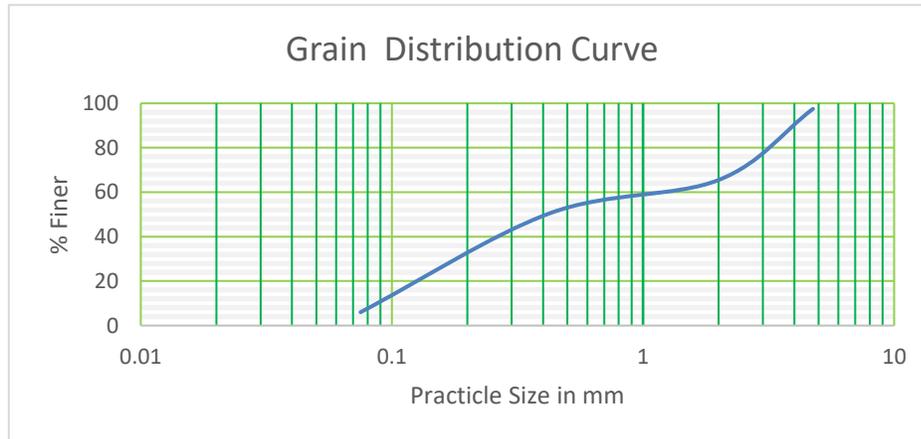
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Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97.5
	2.00 mm		65.5
	0.425 mm		50.5
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2.5	32	15	44.5	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH -13 (3.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

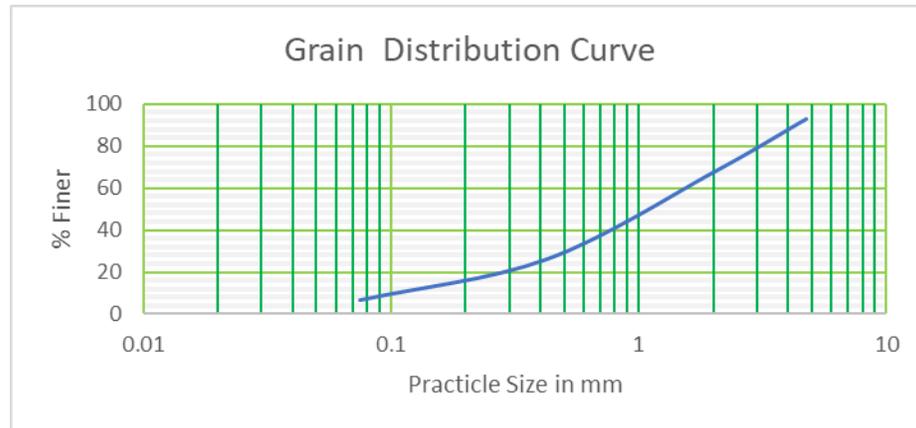
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	93
	2.00 mm		67.5
	0.425 mm		26
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
7	25.5	41.5	19.5	6.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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2. The result listed refer only to the tested samples and applicable parameters endorsement or product is neither inferred nor implied.
3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
5. This report is not reproduced wholly or in part and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (4.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

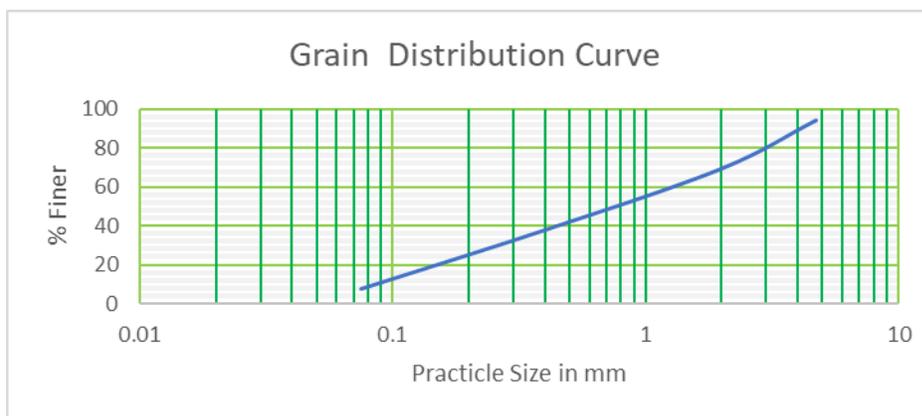
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	94.5
	2.00 mm		69.5
	0.425 mm		39
	0.075 mm		7.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
5.5	25	30.5	31.5	7.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (6.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

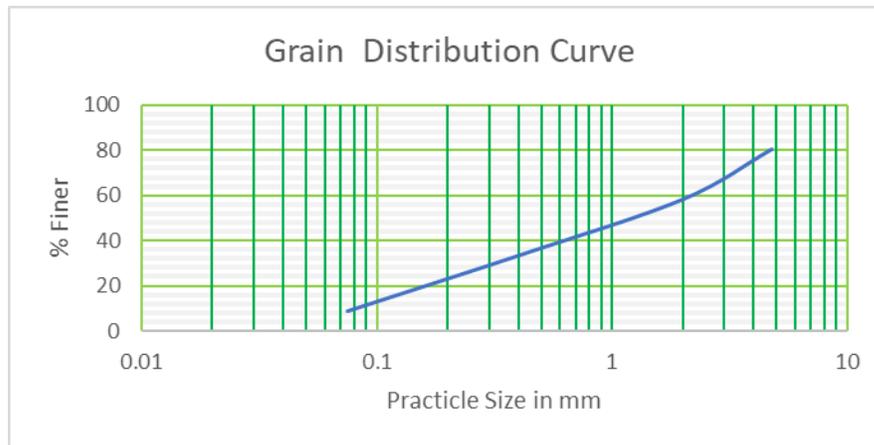
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80.5
	2.00 mm		58.5
	0.425 mm		34.5
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19.5	22	24	25.5	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (7.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

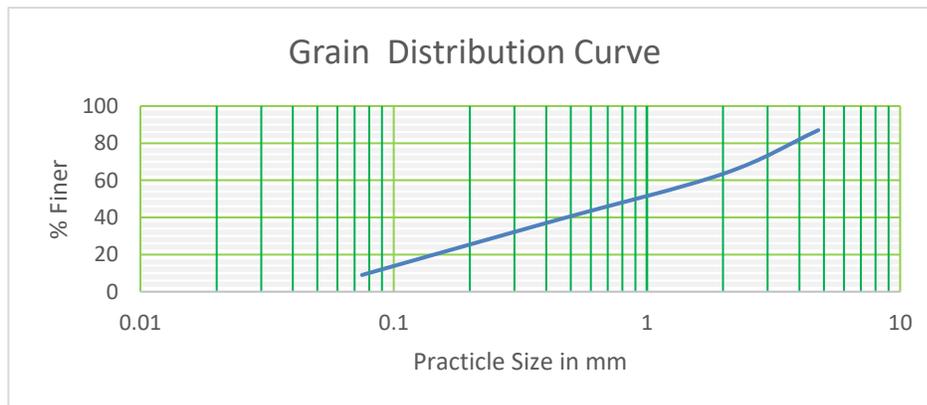
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87
	2.00 mm		63.5
	0.425 mm		38
	0.075 mm		9

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
13	23.5	25.5	29	9



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (9.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

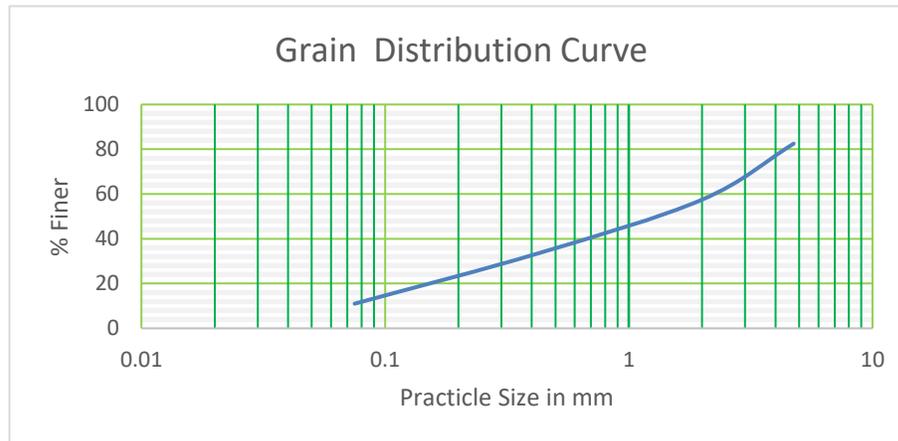
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82.5
	2.00 mm		57.5
	0.425 mm		33.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
17.5	25	24	22.5	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (10.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

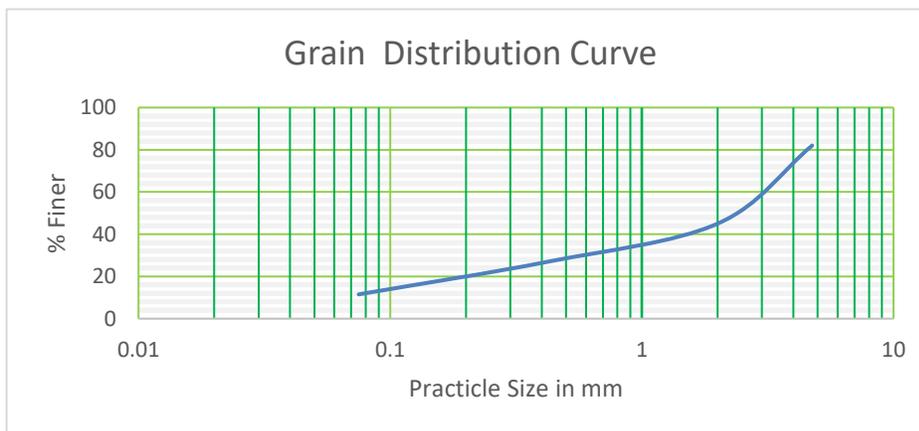
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		45
	0.425 mm		27
	0.075 mm		11.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	37	18	15.5	11.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (12.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

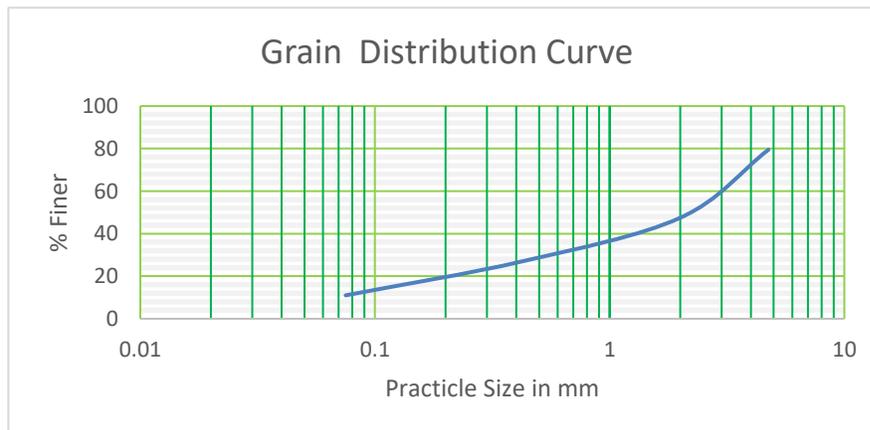
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	79.5
	2.00 mm		47.5
	0.425 mm		27
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
20.5	32	20.5	16	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (13.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

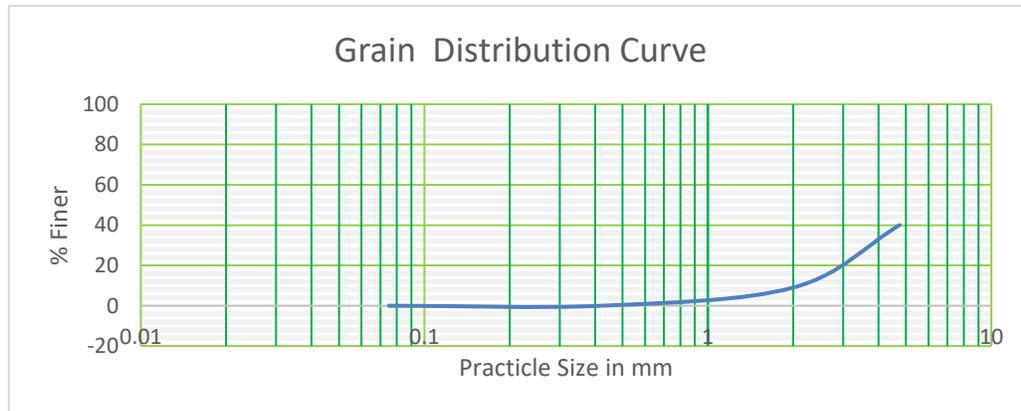
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	40
	2.00 mm		9
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
60	31	9	0	0



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-13 (15 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

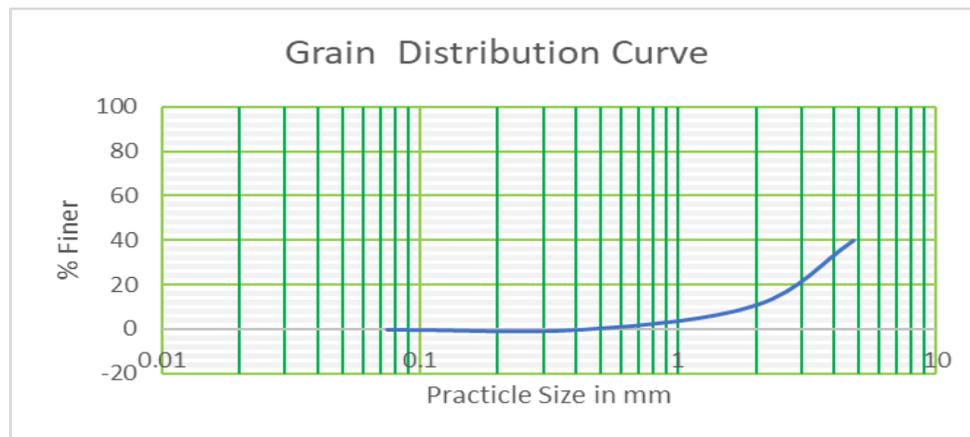
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	40
	2.00 mm		11
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
60	29	11	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (1.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

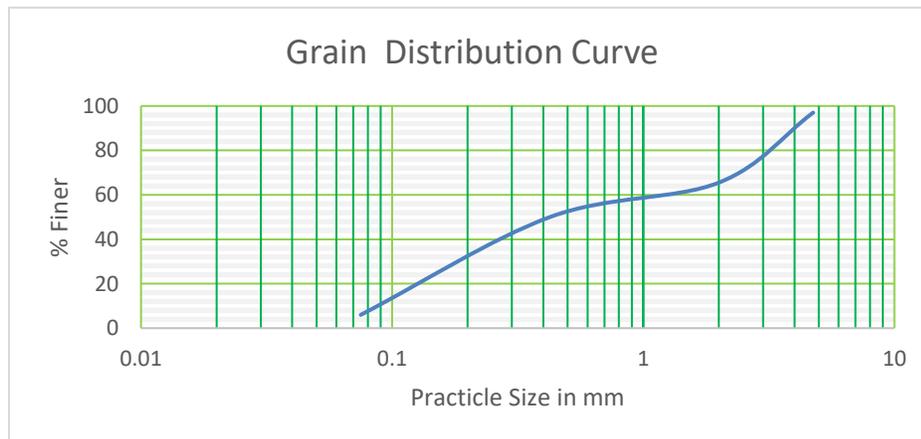
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97
	2.00 mm		65.5
	0.425 mm		50
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
3	31.5	15.5	44	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH -14 (3.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

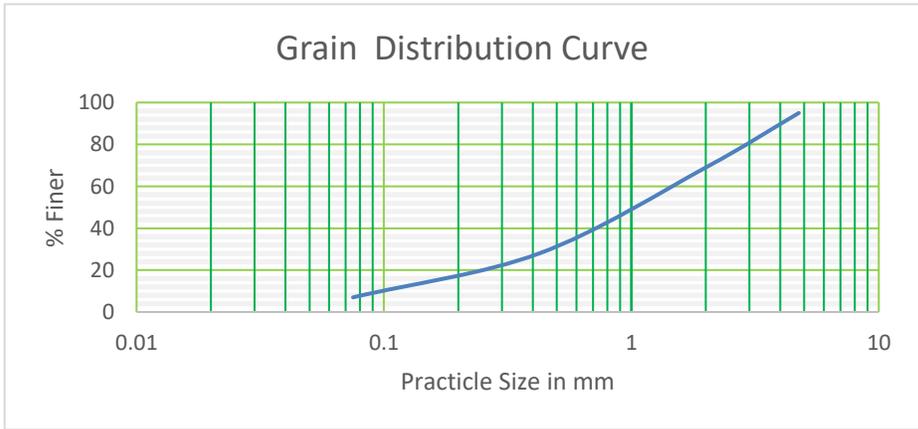
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	95
	2.00 mm		69
	0.425 mm		28
	0.075 mm		7

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
5	26	41	21	7



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (4.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/1002026/02

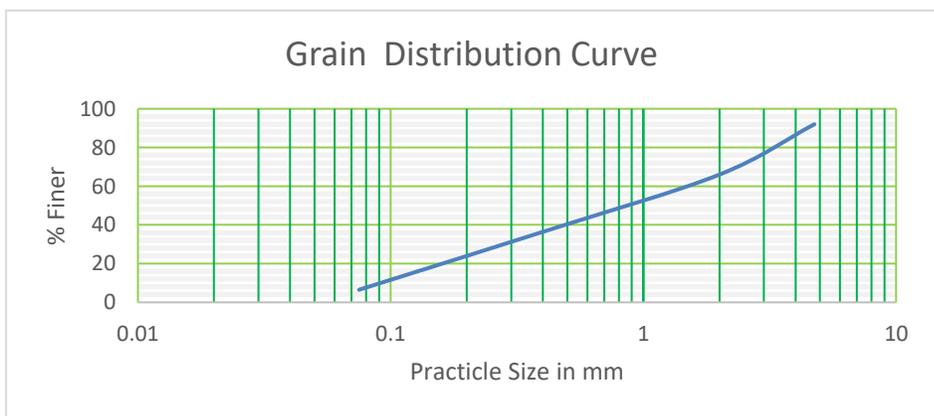
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 11/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	92
	2.00 mm		66
	0.425 mm		37.5
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
8	26	28.5	31	6.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (6.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

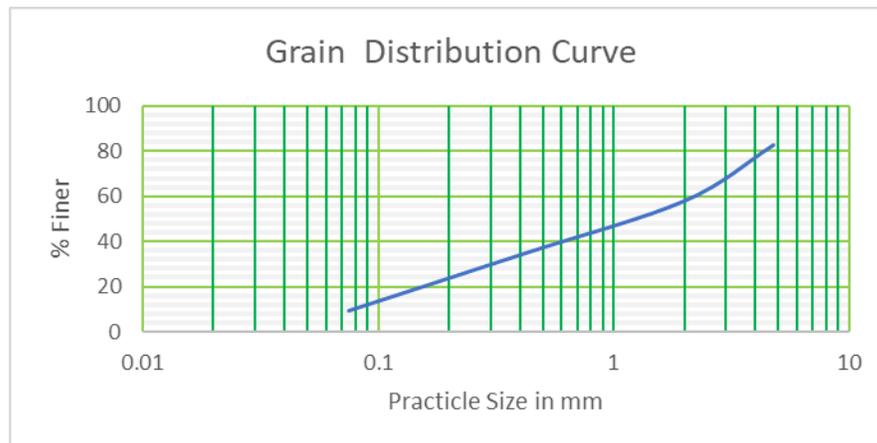
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82.5
	2.00 mm		58
	0.425 mm		35
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
17.5	24.5	23	25.5	9.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (7.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

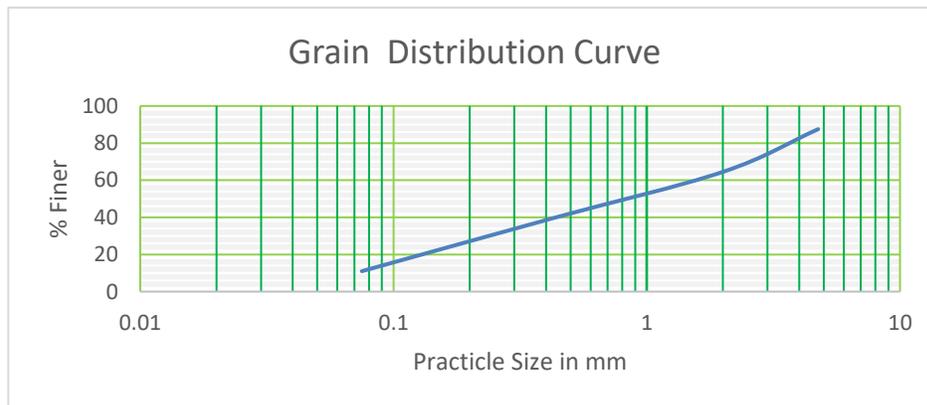
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87.5
	2.00 mm		64.5
	0.425 mm		39.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
12.5	23	25	28.5	11



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (9.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

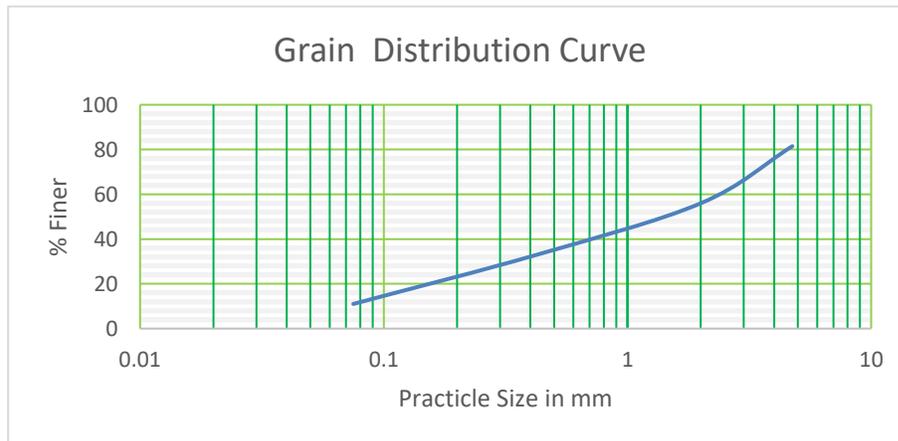
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81.5
	2.00 mm		56
	0.425 mm		33
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18.5	25.5	23	22	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (10.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

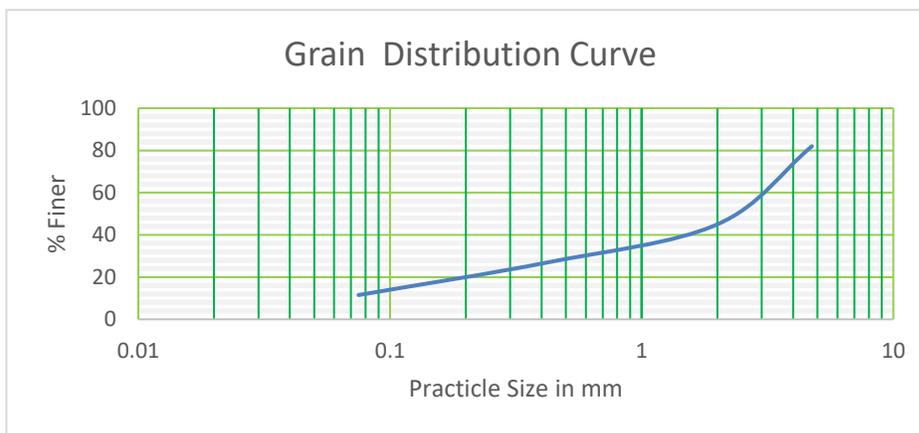
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		45
	0.425 mm		27
	0.075 mm		11.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	37	18	15.5	11.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (12.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

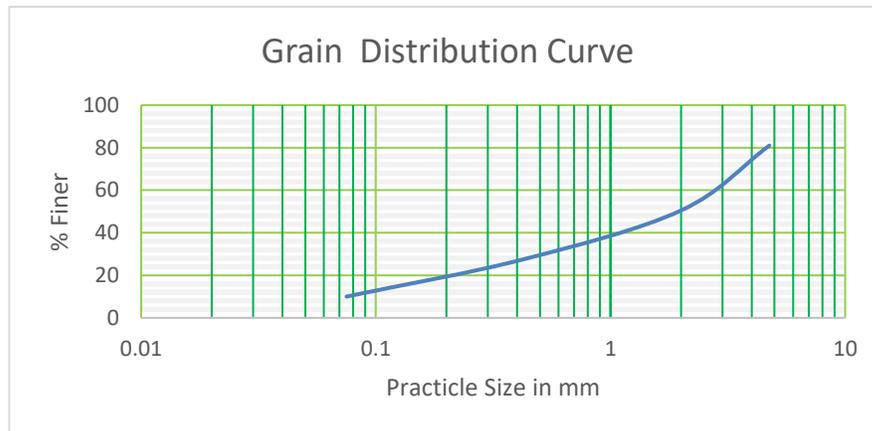
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81
	2.00 mm		50.5
	0.425 mm		27.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19	30.5	23	17.5	10



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (13.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

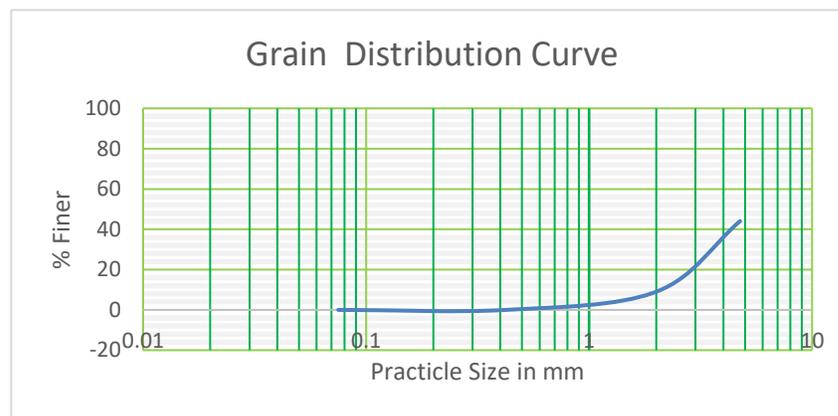
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	44
	2.00 mm		9
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
56	35	9	0	0



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-14 (15 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

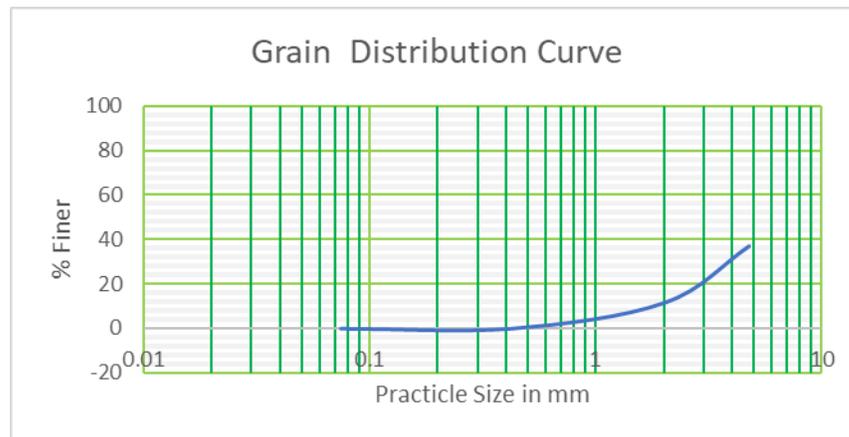
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	37
	2.00 mm		11.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
63	25.5	11.5	0	0



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (1.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

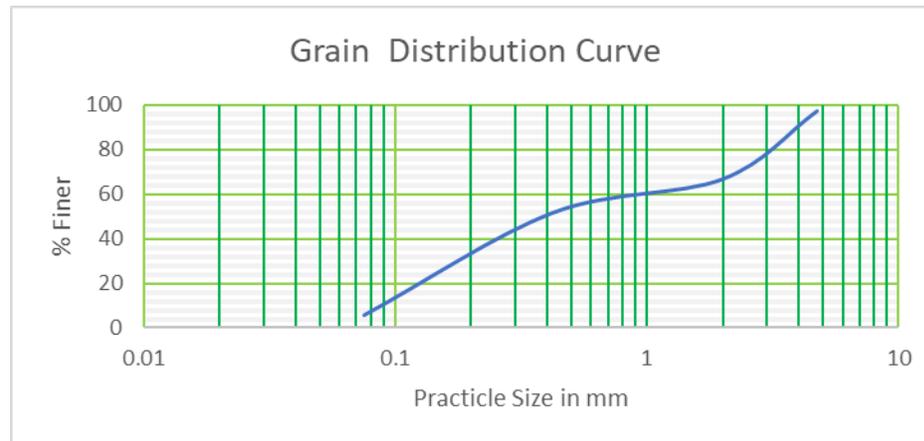
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97.5
	2.00 mm		67
	0.425 mm		52
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
2.5	30.5	15	46	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH -15 (3.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

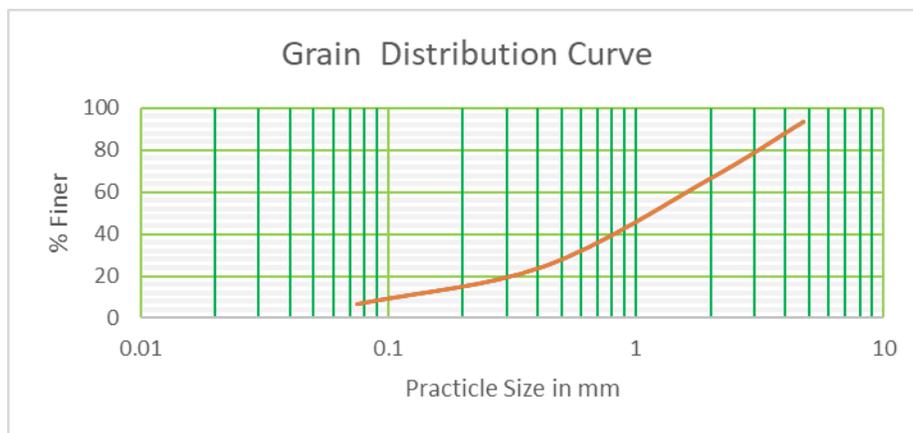
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	93.5
	2.00 mm		66.5
	0.425 mm		24.5
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
6.5	27	42	18	6.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (4.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

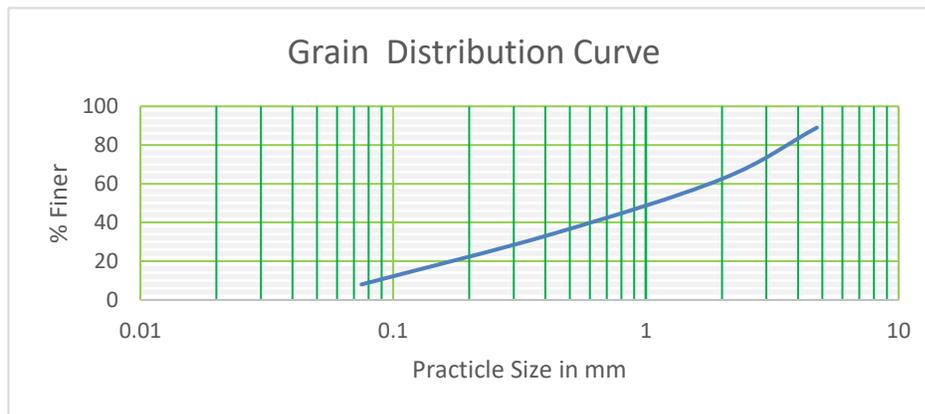
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89
	2.00 mm		62.5
	0.425 mm		34
	0.075 mm		8

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
11	26.5	28.5	26	8



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (6.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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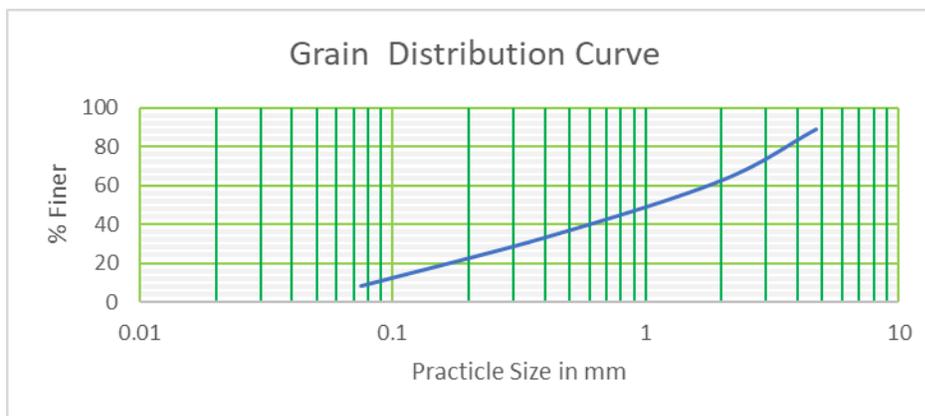
Date of Issue of Report: 21/02/2026

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Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	89
	2.00 mm		62.5
	0.425 mm		34
	0.075 mm		8

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
11	26.5	28.5	26	8



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (7.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

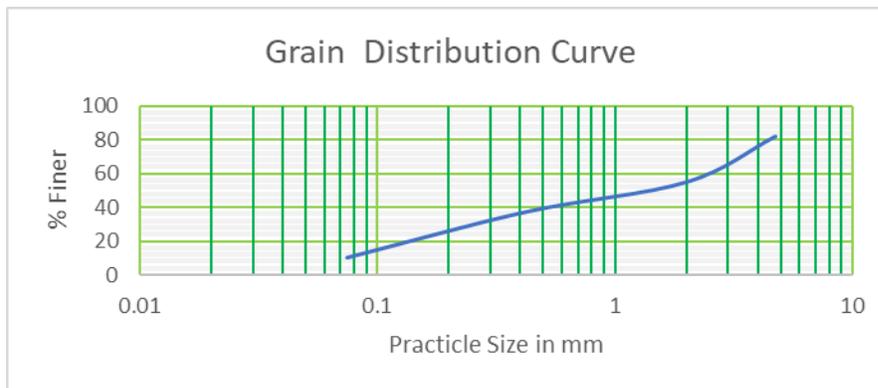
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		55
	0.425 mm		37.5
	0.075 mm		10.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	27	17.5	27	10.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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3. Total liability of our lab is limited to the invoiced amount.
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GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (9.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

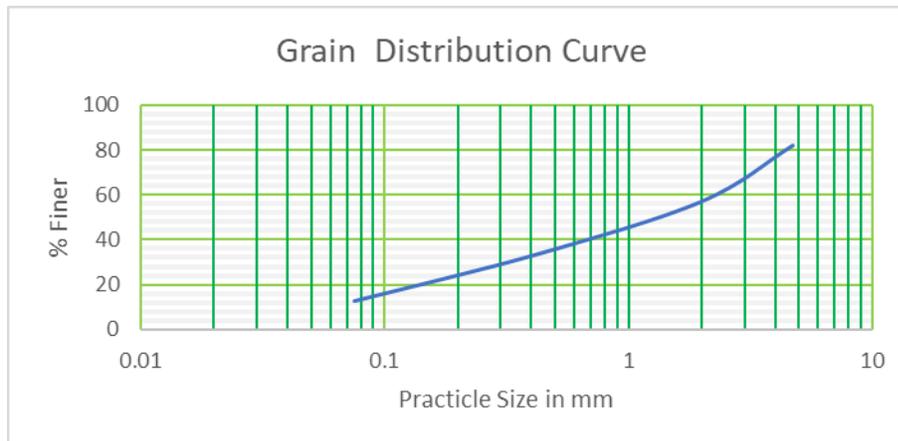
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		57
	0.425 mm		33.5
	0.075 mm		12.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	25	23.5	21	12.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (10.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

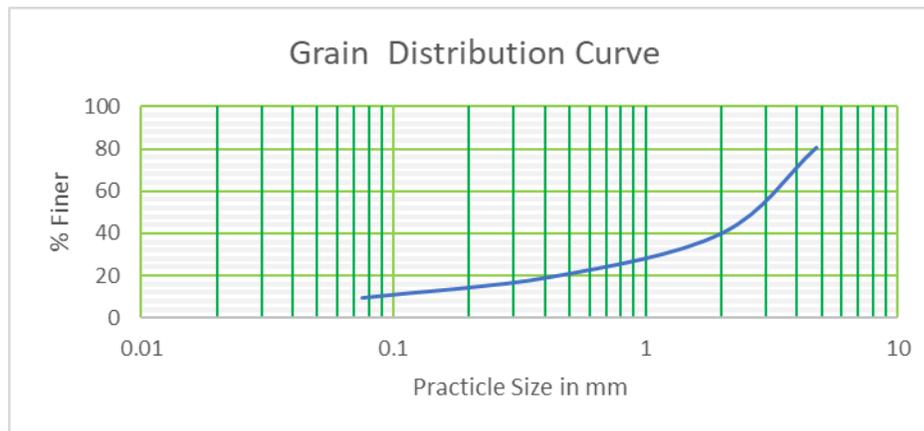
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	80.5
	2.00 mm		40
	0.425 mm		19.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19.5	40.5	20.5	10	9.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-15 (12.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

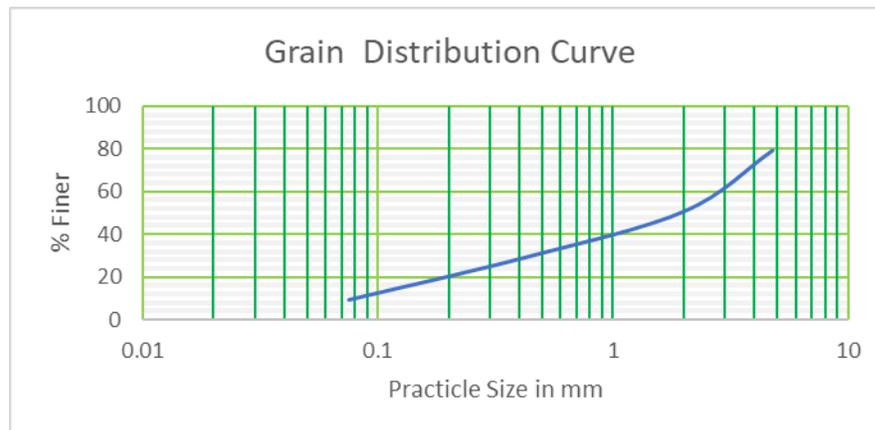
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	79.5
	2.00 mm		51
	0.425 mm		29.5
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
20.5	28.5	21.5	20	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (1.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W. Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

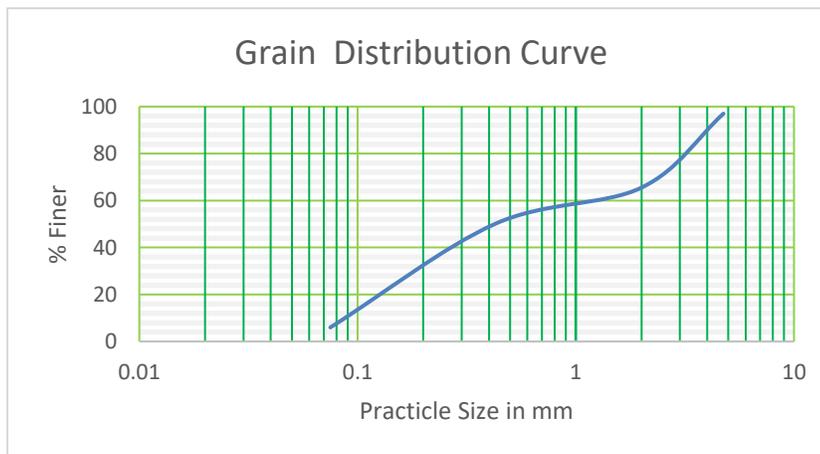
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	97
	2.00 mm		65.5
	0.425 mm		50
	0.075 mm		6

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
3	31.5	15.5	44	6



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH -16 (3.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

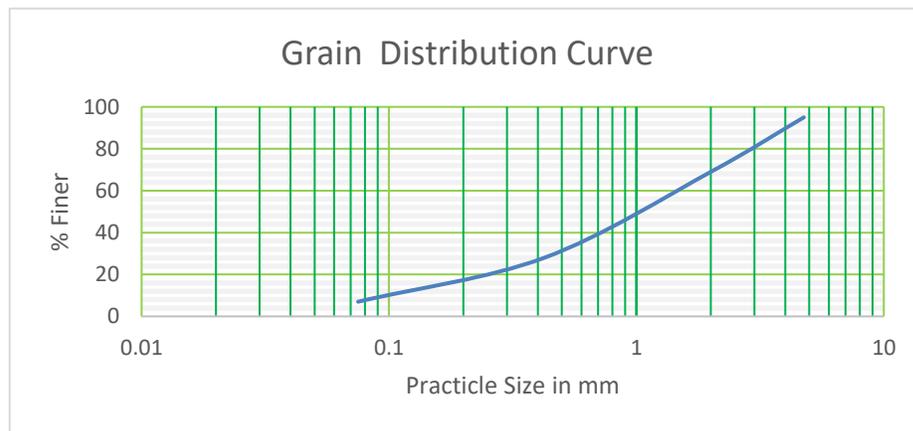
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	95
	2.00 mm		69
	0.425 mm		28
	0.075 mm		7

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
5	26	41	21	7



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (4.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

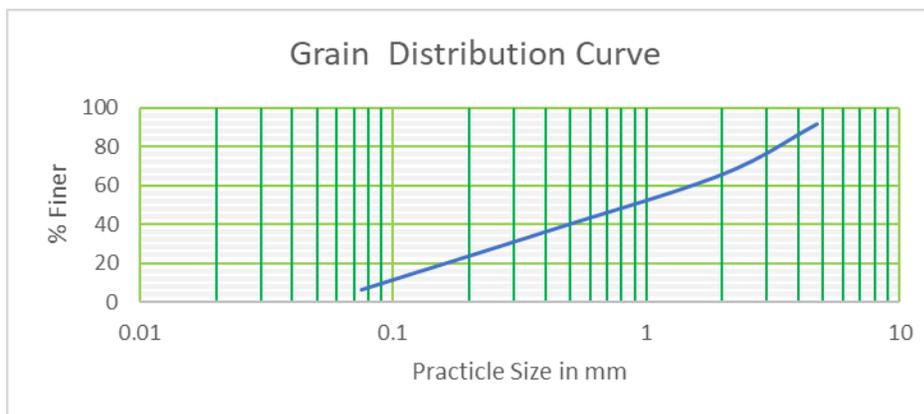
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	92
	2.00 mm		66
	0.425 mm		37.5
	0.075 mm		6.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
8	26	28.5	31	6.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (6.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

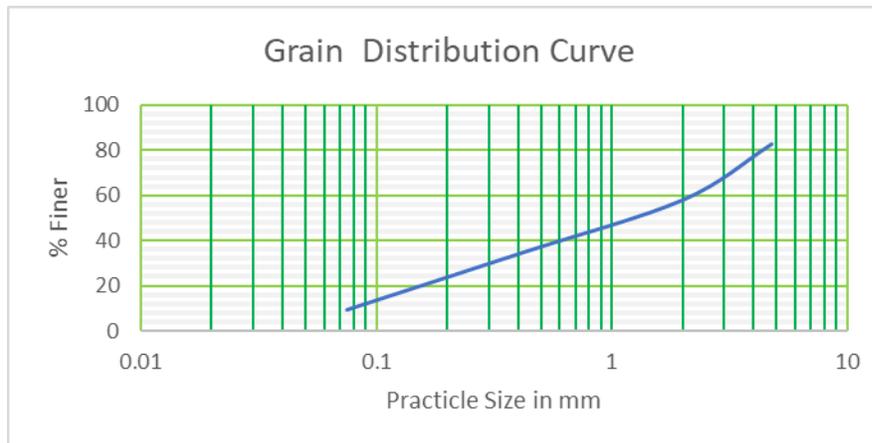
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82.5
	2.00 mm		58
	0.425 mm		35
	0.075 mm		9.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
17.5	24.5	23	25.5	9.5



Note:

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2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (7.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

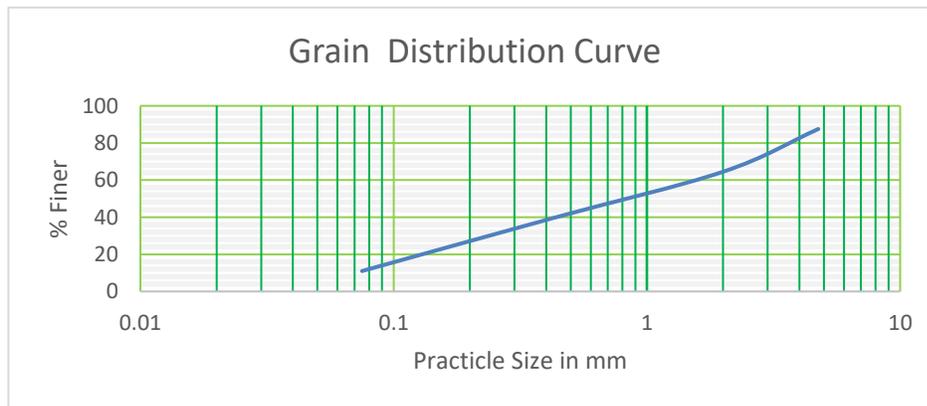
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	87.5
	2.00 mm		64.5
	0.425 mm		39.5
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
12.5	23	25	28.5	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



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Verified & Authorized Signature

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (9.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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Report No.: GSRL/100226/02

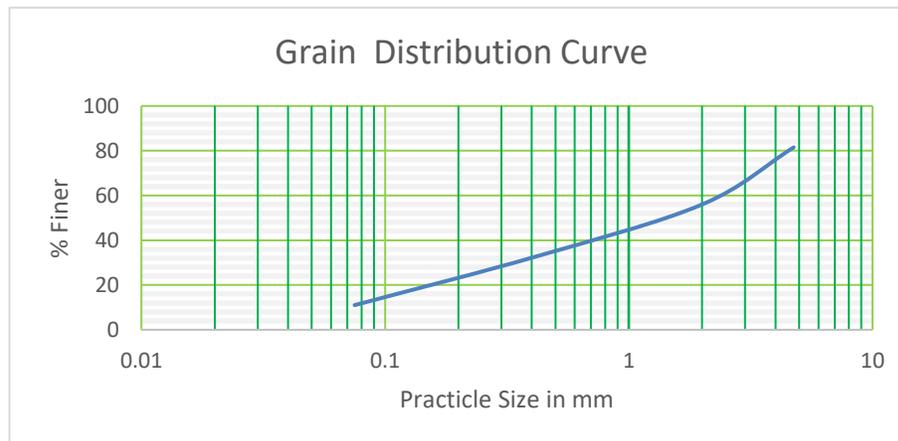
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81.5
	2.00 mm		56
	0.425 mm		33
	0.075 mm		11

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18.5	25.5	23	22	11



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (10.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

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Report No.: GSRL/100226/02

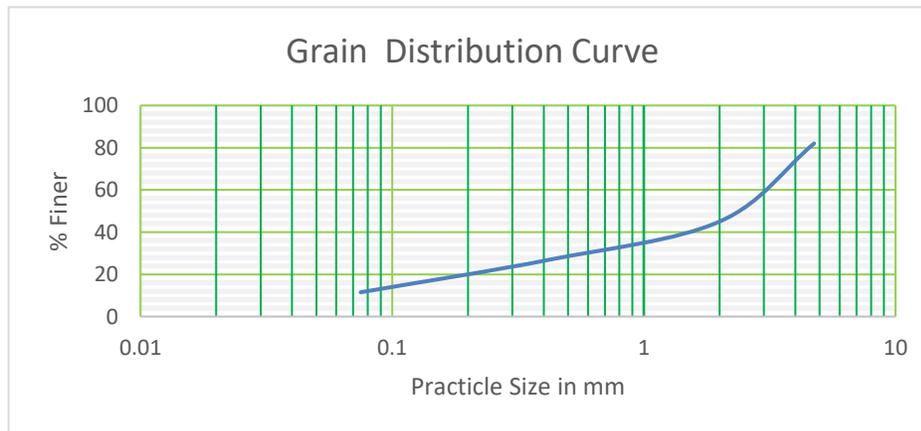
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	82
	2.00 mm		45
	0.425 mm		27
	0.075 mm		11.5

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
18	37	18	15.5	11.5



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (12.0 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

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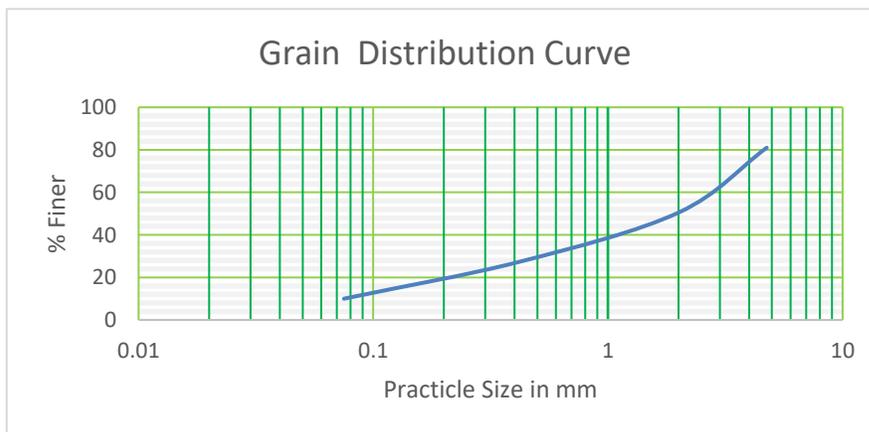
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	81
	2.00 mm		50.5
	0.425 mm		27.5
	0.075 mm		10

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
19	30.5	23	17.5	10



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

1. The Location of performance of laboratory activities permanent facility.
2. The result listed refer only to the tested samples and applicable parameters endorsement or product is neither inferred nor implied.
3. Total liability of our lab is limited to the invoiced amount.
4. Samples will be destroyed after 30 days from the date of issue of test report.
5. This report is not reproduced wholly or in part and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



GSRL GLOBAL SOIL RESEARCH LABORATORY PVT. LTD.

H.N. 100/08 KH NO 388 SUN CITY ENCLAVE JANKIPURAM EXTENSION LUCKNOW-226021

BRANCH ADDRESS: - JAGRITI VIHAR, HARRAWALA, RAILWAY STATION ROAD, DEHRADUN (UK)-248001

NABL ACCREDITED & ISO 9001:2015 & ISO 14001:2015 CERTIFIED LABORATORY

Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (13.5 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

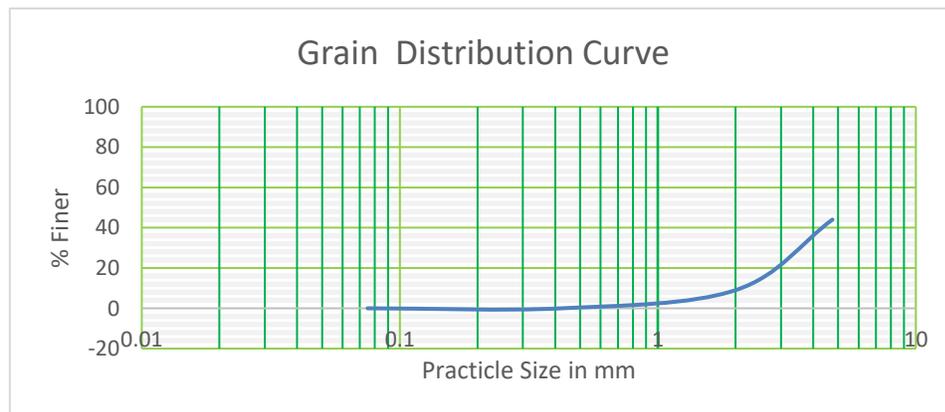
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	44
	2.00 mm		9
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
56	35	9	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

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Email: soilresearchlaboratory@gmail.com, Email: gtclddn@gmail.com

Mob.: +919650024285, 9151555491

TEST REPORT

Description of Sample: Soil BH-16 (15 m)

Sample ID: 100226/02

Sample Quantity: 20 Kg.

Sample Condition: Receipt as OK

Locations : Namrup (Assam)

N.O.W.: Geotechnical Investigation work for proposed Ammonia-Urea Fertilizer and Chemical Company Ltd.

Issued To:-

G S Geo Environs Private Limited.

Report No.: GSRL/100226/02

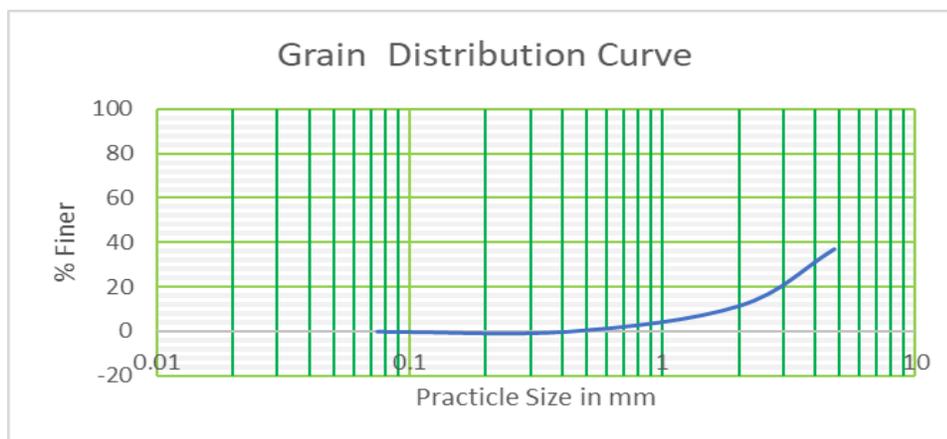
Date of Issue of Report: 21/02/2026

Date of Performance of Testing: 11-15/02/2026

Date of Receipt: 10/02/2026

S. No.	Test Grain Sieve Analysis	Test Method	Result
1	4.75 mm	IS 2720(P-4):1985, Raff. 2020	37
	2.00 mm		11.5
	0.425 mm		0
	0.075 mm		0

Gravel	Sand		95	Silt & Clay
	Coarse	Medium	Fine	
63	25.5	11.5	0	0



Note:

1. The Above Test refers only to the Items tested.
2. Statement of Conformity & Decision Rule (In case of Borderline): NA
3. Opinion & Interpretations: NA



***End of

Verified & Authorized Signature

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