



**NERLT**  
CIVIL LABORATORY  
AND CONSULTANCY SERVICES

# NORTHEAST RESEARCH LABORATORY & TESTING PRIVATE LIMITED

## COMPANY PROFILE

# 2025



TC-17241

### NERLT

An NABL ACCREDITED  
LABORATORY  
(ISO/IEC 17025:2017  
Certificate No: TC-17241)

### COMPANY ADDRESS

**OFFICE:** Room No: 50, G.M.C. Market,  
Anandaram Baruah Setu, Chandmari,  
Guwahati, Assam 781003

**LAB:** House No 4, Salbari- Noonmati Road,  
Noonmati, Guwahati, Assam 781020

**CIN:** U71200AS2025PTC027742

[www.nerlt.com](http://www.nerlt.com)

[office@nerlt.com](mailto:office@nerlt.com)

+919577782943





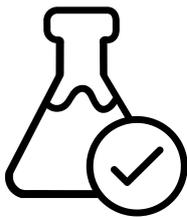
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# NERLT

## OFFER EXCELLENT CIVIL LABORATORY AND CONSULTANCY SERVICES

At NEE, we seamlessly integrate cutting-edge Civil Laboratory Services with expert Consultancy Services, offering a comprehensive solution to meet all your civil engineering needs.

### We Offer



#### COMPREHENSIVE LAB-TESTING SERVICES

OFFERING A WIDE RANGE OF TESTING SERVICES RELATED TO CIVIL ENGINEERING, WHICH MAY INCLUDE SOIL TESTING, MATERIALS TESTING, STRUCTURAL ANALYSIS AND MORE.



#### HIGH-GRADE CIVIL CONSULTING

WE OFFER A BROAD RANGE OF CIVIL ENGINEERING CONSULTANCY SERVICES, INCLUDING STRUCTURAL DESIGN, GEOTECHNICAL SOLUTIONS FOR FOUNDATIONS, RETAINING STRUCTURES, EMBANKMENTS, GROUND IMPROVEMENT AND MORE.



#### EXPERIENCED PROFESSIONALS

EXPERIENCED PROFESSIONALSOUR TEAM COMPRISES HIGHLY EXPERIENCED PROFESSIONALS WITH A WEALTH OF EXPERTISE IN THEIR RESPECTIVE FIELDS.



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# ABOUT COMPANY

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Northeast Research Laboratories and Testing Private Limited (NERLT), previously operating as North East Engineers (NEE), was established in 1992 under the visionary leadership of Mr. C.K. Bezbaruah. The company was founded with a core team of multidisciplinary engineers, each bringing expertise from various branches of civil, structural, architectural, electrical, mechanical, and environmental engineering.

NERLT was conceived with a mission to bridge the gap between traditional engineering practices and the advanced technologies of industrialized nations. The firm's founding objective was to introduce and implement modern construction methodologies, efficient road and transport networks, and state-of-the-art infrastructure planning in developing regions—particularly in Northeast India.

As a nucleus of intellectual and technical excellence, NERLT continues to attract professionals dedicated to strengthening the technological capabilities of the region. The company specializes in adapting modern technologies to local conditions, integrating them seamlessly with indigenous skills and available materials. This approach ensures cost-effective, sustainable, and context-sensitive project execution.



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## About Company

The firm's expertise encompasses a wide range of services including pre-feasibility studies, detailed structural design, construction supervision, project management, and specialized maintenance solutions. NERLT's civil engineering portfolio spans across:

- Roads and Highways
- Road and Railway Bridges
- Water Resources and Agricultural Development
- Water Supply, Sewerage, and Drainage Systems
- Urban and Regional Infrastructure
- Railway Infrastructure
- Public Health Engineering
- Environmental Engineering
- Social Infrastructure and Impact Development
- Town Planning
- Area and Community Development

With a steadfast commitment to quality, innovation, and sustainable growth, NERLT stands as a cornerstone of engineering excellence in the Northeastern region of India.



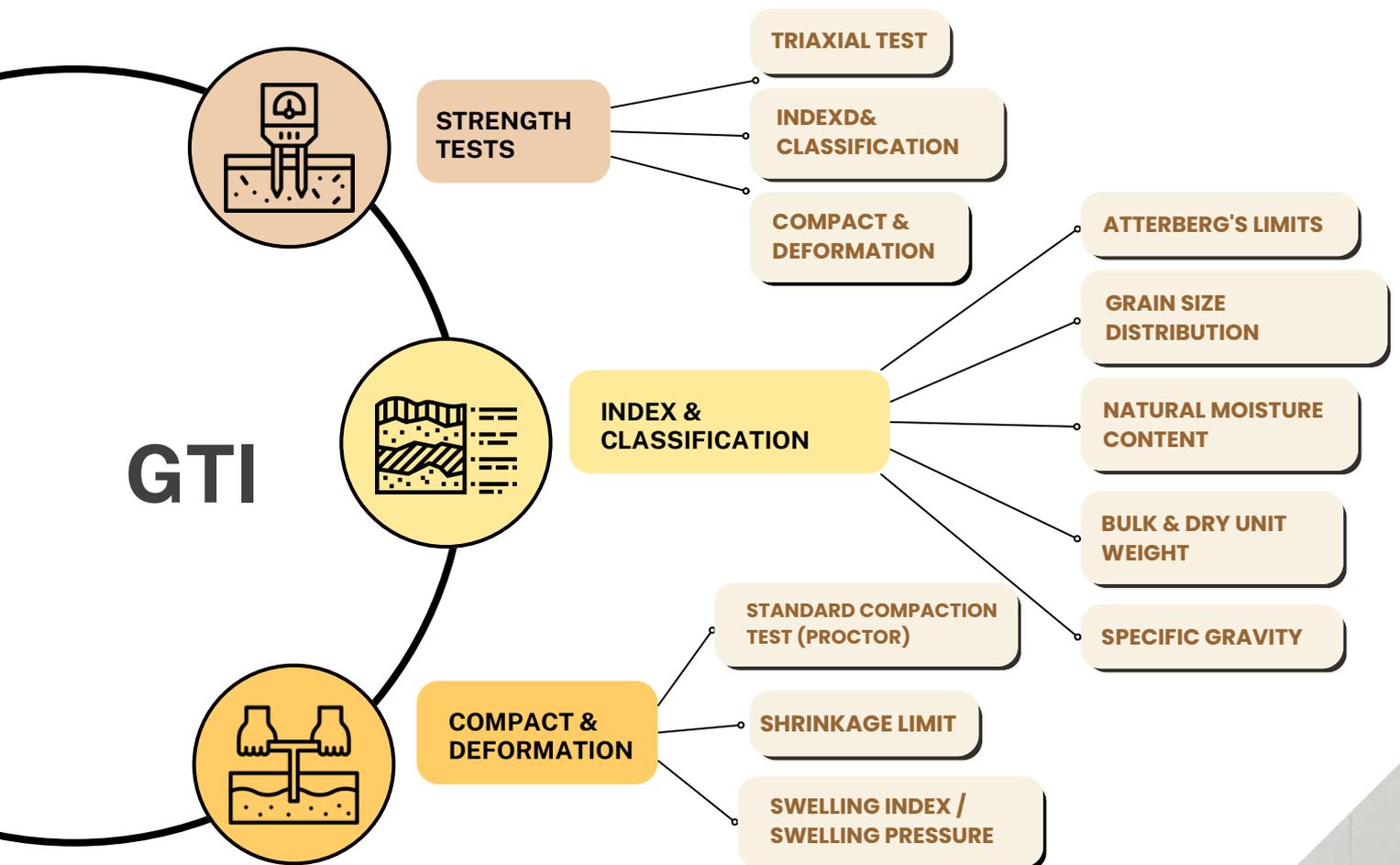
# SERVICES

## GTI-GEOTECHNICAL INVESTIGATION

Northeast Research Laboratories and Testing Private Limited (NERLT), a leading provider of civil engineering and geotechnical consultancy services, undertakes comprehensive geotechnical investigations across various sectors including residential, commercial, industrial, and infrastructure development. The primary goal of such investigations is to explore and evaluate subsurface soil conditions in order to develop safe, reliable, and cost-effective foundation design recommendations tailored to the specific needs of each project.

In a typical investigation, NERLT drills boreholes (e.g., BH-1, BH-2, BH-3) from the existing ground level at strategic locations on the project site. Subsoil data is collected through field tests and sampling activities conducted under the supervision of the client's representative. Laboratory testing of selected samples is carried out in accordance with relevant IS codes to determine key engineering properties such as shear strength, compressibility, moisture content, permeability, and consolidation behavior.

The objective of these investigations is to identify the physical and mechanical characteristics of the underlying strata, assess their bearing capacity and settlement potential, and recommend suitable foundation systems. This also helps identify geotechnical challenges that may affect construction feasibility or safety.

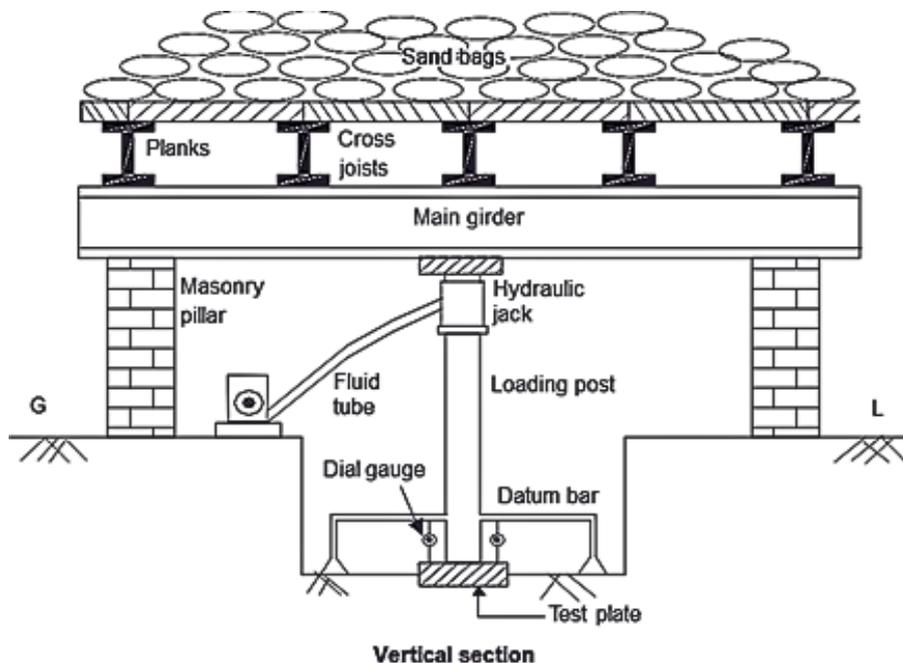


## PLATE LOAD TEST (PLT)

**Northeast Research Laboratories and Testing Private Limited (NERLT)** conducts **Plate Load Tests (PLT)** to evaluate the bearing capacity and settlement characteristics of soil at proposed construction sites. This in-situ test is essential for assessing ground suitability for shallow foundations, pavements, and other load-bearing structures.

During the test, a rigid steel plate is placed at the foundation level and subjected to incremental loading using hydraulic jacks. The corresponding settlements are measured and analyzed to understand the load-settlement behavior of the soil. The results provide valuable insight into soil strength, deformation properties, and allowable bearing pressure.

PLT services by **NERLT** are performed in accordance with relevant Indian Standards, delivering accurate, site-specific data to support safe, economical, and reliable foundation design.





## COMPRESSION TEST

Northeast Research Laboratories and Testing Private Limited (NERLT) offers precise and reliable compression testing services for concrete cubes, bricks, and concrete blocks. These tests are essential for assessing the compressive strength of building materials and ensuring their compliance with structural design requirements and relevant Indian Standards.

Compression testing is performed to determine a material's resistance to crushing under a gradually applied load. It is a critical quality control measure used during and after construction to validate the strength and durability of structural elements.



### CUBE

NERLT provides accurate and standardized compression testing of concrete cubes, a critical procedure for assessing the compressive strength of concrete used in structural elements. This test is fundamental to evaluating whether concrete meets the required mix design strength and ensures durability, load-bearing capacity and structural safety.



### BLOCK

It provides precise and reliable compression testing of concrete blocks to determine their load-bearing capacity. This test is vital in evaluating the structural integrity of concrete masonry units used in load-bearing and non-load-bearing construction.

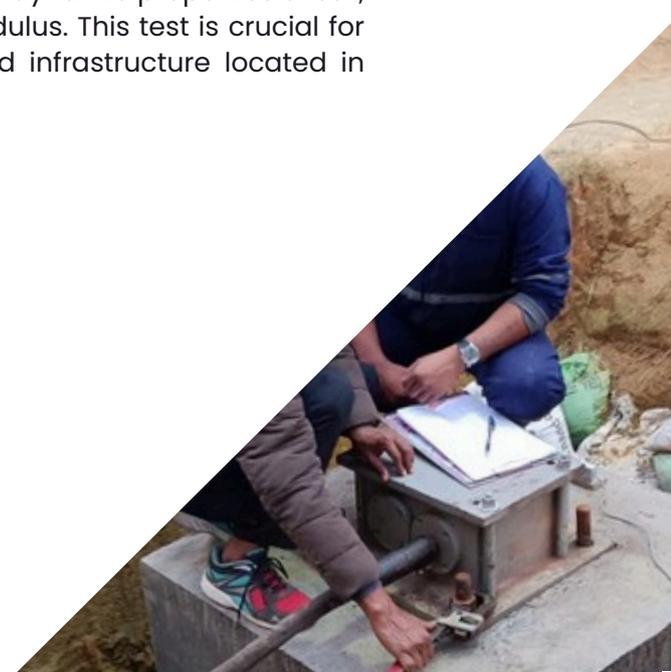
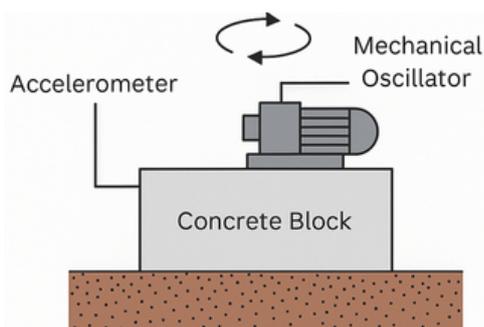


### BRICK

NERLT offers comprehensive compression testing services for bricks to determine their compressive strength – a key factor in assessing their suitability for structural and load-bearing applications. Brick strength plays a crucial role in the overall stability and durability of masonry structures.

## BLOCK VIBRATION

Northeast Research Laboratories and Testing Private Limited (NERLT) offers specialized Block Vibration Testing services to evaluate the dynamic properties of soil, such as natural frequency, damping ratio, and shear modulus. This test is crucial for designing machine foundations, dynamic structures, and infrastructure located in seismically sensitive or vibration-prone areas.

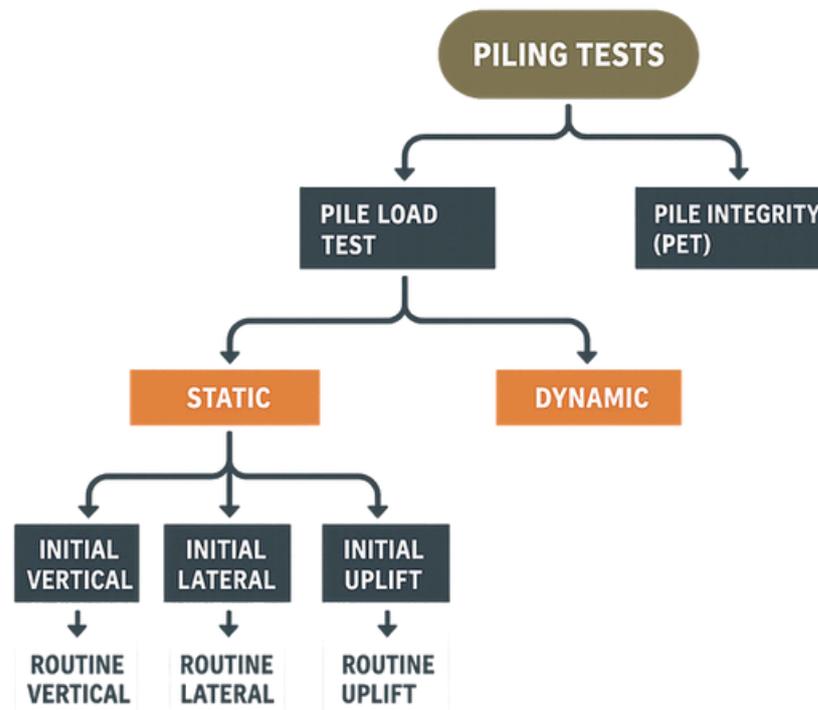




## PILING

Ensuring the strength and reliability of deep foundations is essential before any major structure rises above ground. As part of its commitment to safe and durable engineering, Northeast Research Laboratories and Testing Private Limited (NERLT) performs advanced pile testing services to assess both the load-bearing capacity and structural integrity of foundation piles.

To meet a wide range of geotechnical and structural demands, NERLT conducts two primary types of piling tests: Pipe Load Tests (both static and dynamic) and The Pile Integrity Test (PET).



## SCPT-SEISMIC CONE PENETRATION TESTING

Seismic Cone Penetration Testing (SCPT) is an advanced in-situ test that combines standard cone penetration (CPT) with seismic measurements to assess both static and dynamic soil properties. At NERLT, SCPT is used to determine shear wave velocity ( $V_s$ ) and compression wave velocity ( $V_p$ ) by recording seismic wave responses from a geophone-equipped cone pushed into the ground.

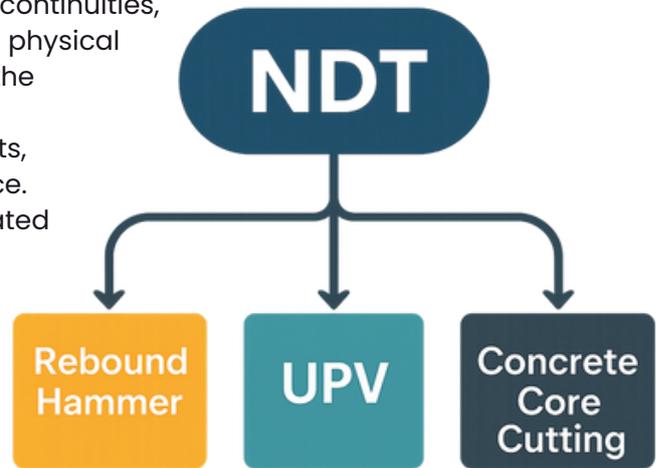
This data helps evaluate soil stiffness, dynamic shear modulus, and supports seismic site classification, liquefaction analysis, and foundation design in earthquake-prone zones. SCPT is essential for geotechnical profiling where both strength and seismic response are critical for safe structural design.



## NDT-NONDESTRUCTIVE TESTING

Non-Destructive Testing (NDT) is a vital tool used to assess the condition and quality of structural components without causing any physical damage. It plays a key role in the evaluation and monitoring of concrete strength, material consistency, and structural soundness in buildings, bridges, and foundations. At NERLT, commonly used NDT methods include the Rebound Hammer Test for estimating surface hardness and strength, Ultrasonic Pulse Velocity (UPV) to detect internal voids or discontinuities, and Concrete Core Cutting, which allows detailed physical examination of in-situ concrete while preserving the structural integrity of the remaining element.

These techniques are essential for structural audits, retrofitting decisions, and overall quality assurance. Conducted by experienced engineers with calibrated tools, NDT at NERLT ensures fast, reliable, and code-compliant assessments without disrupting the structure.



## BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS TESTING

NERLT offers reliable testing services for building, infrastructure, and construction materials to ensure compliance with quality and safety standards. The scope of services includes **compressive strength testing** of **burnt clay building bricks** as per IS 3495 (Part 1), **water absorption testing** of bricks in accordance with IS 3495 (Part 2), and **compressive strength testing** of **hardened concrete cubes** as per IS 516 (Part 1 / Section 1). These tests support material quality assessment, structural safety, and regulatory compliance in construction projects.



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## Laboratory test and report:

Northeast Research Laboratory & Testing Private Limited conducts the following laboratory test:

Soil test:	Chemical analysis of soil:	Chemical analysis of water:
<ul style="list-style-type: none"> <li>• Triaxial Test</li> <li>• Unconfined Compression Test</li> <li>• Direct Shear Test</li> <li>• Consolidation (Oedometer Test)</li> <li>• Grain size distribution,</li> <li>• Atterberg's limits,</li> <li>• Natural moisture content</li> <li>• Bulk &amp; dry unit weight</li> <li>• Specific gravity</li> <li>• Permeability Test</li> <li>• Swelling Index/ Swelling Pressure</li> <li>• Shrinkage limit</li> <li>• Standard Compaction Test (Proctor)</li> <li>• C.B.R. Test.</li> </ul>	<ul style="list-style-type: none"> <li>• Ph-value</li> <li>• Sulphate (SO<sub>3</sub>)</li> <li>• Chloride(Cl)</li> <li>• Nitrate</li> <li>• Organic matters</li> <li>• Inorganic matters</li> <li>• Alkanity</li> </ul>	<ul style="list-style-type: none"> <li>• Turbidity</li> <li>• Ph-value</li> <li>• Sulphate (SO<sub>3</sub>)</li> <li>• Chloride(Cl)</li> <li>• Organic matters</li> <li>• Inorganic matters</li> <li>• Suspended matter</li> <li>• Alkanity  (Phenolphthalein)</li> </ul>

Test for Coarse Aggregates:	Test For Fine Aggregates:
<ul style="list-style-type: none"> <li>• Sieve Analysis</li> <li>• Impact test</li> <li>• Abrasion test</li> <li>• Water absorption</li> <li>• Specific gravity</li> <li>• Elongation &amp; Flakiness</li> <li>• Deleterious Material</li> </ul>	<ul style="list-style-type: none"> <li>• Grain size distribution</li> <li>• Silt content Specific</li> <li>• Gravity</li> <li>• Bulking of sand</li> </ul>

Test for Cement:	Test for Concrete:
<ul style="list-style-type: none"> <li>• Initial setting time</li> <li>• Final Setting time</li> <li>• Standard Consistency</li> <li>• Sieve Analysis (fineness)</li> <li>• Soundness</li> <li>• Compressive strength</li> </ul>	<ul style="list-style-type: none"> <li>• Cube test</li> <li>• Slump test</li> </ul>



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# WORK ORDERS



**ARCHOGEN DESIGN STUDIOS**  
A R C H I T E C T U R E

B-173, First Floor, Sectora-26, Noida, U.P.-201301

Email: archogen@gmail.com, Website: www.archogen.com

18th July, 2025

## WORK ORDER

To,

**M/S- NORTH EAST ENGINEERS  
GMC MARKET ROOM NO. 50 ,  
MRD ROAD, CHANDMARI  
Kamrup Metropolitan, ASSAM, 781003**

**Sub: "Sub soil Investigation work at four various location viz- Lepa Rada JNV, Tezu, JNV Siang and Pakke Kessang in Arunachal Pradesh"**

**Ref: "Your Quotation EST-262 dated 14.07.2025"**

With reference to your above quotation EST-262 dated 14.07.2025, work order for the above mentioned work is being issued to you as per the terms and conditions mutually agreed upon. You are requested to strictly adhere to the timelines as specified by you. The work shall commence from 21.07.2025 as per your commitment. The work shall be carried out in co-ordination with NBCC officials and their local counterparts.

We look forward for your favour.

**Yours sincerely,  
For Archogen Design Studios**



**Shamshad Ahmad Khan  
Partner**



CIN-U45200BR2003PTC010375

As ISO 9001:2008 & 14001:2004 Company

**Ram Kripal Singh Construction Pvt. Ltd.**

Builders for Building the Nation

International Cricket Stadium Contractor



Ref.: RKSCL/23-24/605

**WORK ORDER**

Date: 15/02/2024

To,

M/S – North East Engineers  
GGMC Market Room No. 50,  
MRD Road, Chandmari  
Kamrup Metropolitan, Assam, 781003  
GSTIN 18AHUPB7735L1ZO  
PAN AHUPB7735L  
Email Id : ckbnee@gmail.com

**Sub:** Work Order for pile load test works at civil and structural work at IPPS-1.2 & 3 for Paradip Numaligarh crude oil pipeline project (part B & C) on Engineering, procurement and construction mode.

**Ref.- Your Reference No.- EST-22 Dated 03.02.2024.**

Dear Sir,

With reference to subject work, we are pleased to place Work Order for pile load test works at civil and structural work at IPPS-1.2 & 3 for Paradip Numaligarh crude oil pipeline project (part B & C) on Engineering, procurement and construction mode.

**Scope of Works:**

**A. Detailed Work:**

Sl No.	Description	Unit	Quantity	Rate	Amount (INR)
1.	Initial vertical pile load test for test load 70mt x 3 = 210 ton.	Ton	210	650	1,36,500.00
2.	Initial lateral pile load test	Ton	2	50,000	1,00,000.
3.	Initial pullout test.	Ton	1	75,000	75,000.00
<b>Total=</b>					<b>3,11,500.00 /-</b>

**B. Payment Schedule :**

- 40% Advance with work order.
- 60% during submission of report.

**C. Note:**

- GST and TDS extra will be applicable as per Govt. norms.
- Any legal dispute the Jurisdiction will be Begusarai court only.

You are requested to stamp and sign the duplicate of this Work Order signifying your acceptance to all the above terms and conditions.

Thanks & Regards,

Sincerely Yours,

For M/s Ram Kripal Singh Construction Pvt Ltd.



Amarnath Jha  
(CFO)



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## N.C. DAS & CO.

Railway Contractor

R.D. Road, Ward No- 05, Rangia

Email : rng\_rl\_rny@yahoo.com

Ref No. : .....

Date. : .....

### WORK ORDER

NCDC/25-26/001

Date: 29-10-2025

To,  
NORTH EAST ENGINEERS  
GMC Market Room No.50, MRD Road,  
Chandmari, Kamrup (M), Assam, 781003  
GST No: 18AHUPB7735L1ZO

Ref No: -EST-290 dt 25.10.2025

Sir,

With reference to your offer, we hereby place our order as under:

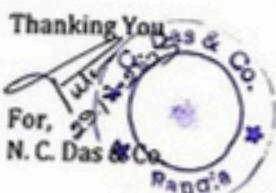
SL.No.	ProductDetails	Rate	Qty	UoM	TotalPrice
1	Initial Vertical Pile Load Test at Nalbari on Test Load 2700 Ton including ISMB loading unloading platform making with testing	450.00	2,700	Ton	12,15,000.00
2	Mobilization & Demobilization towards site	1,35,000.00	1	LPSM	1,35,000.00
<b>SubTotal</b>					<b>13,50,000.00</b>
Add: CGST@9.00%					1,21,500.00
Add: SGST@9.00%					1,21,500.00
<b>GRANDTOTAL</b>					<b>15,93,000.00</b>

#### Terms & Conditions

1. All the materials such as red sand, JCB, hydra, bags, and accommodation will be provided by us.
2. All the Necessary items required for the work will be provided by us.
3. Invoicing Address : N.C Das & Co. (R D Road, Rangia, Assam)
4. Place Of Work : Nalbari As Said by our Site Engineer Mr Anuwar Hussain
5. Contact Person : Anuwar Hussain :- 70021-92746
6. GSTIN : 18AAEFN4884H1ZW
7. Payment Terms : Rs 3,00,000/- Paid as Advance on 28-10-25 & Partial payment will be done during the work TRF Thru NEFT/RTGS from Karnataka Bank Ltd.
8. GST payment will be released after submitting the return copy.
9. Any discrepancy or legal issues arising out of this contract shall be settled under the jurisdiction of Guwahati.

Thanking You

For,  
N. C. Das & Co.





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## BHARTIA INFRA PROJECTS LTD.

ENGINEERS AND CONTRACTORS



### WORK ORDER

To,

**M/S NORTH EAST ENGINEERS**  
GMC MARKET ROOM NO. 50, MRD ROAD,  
CHANDMARI, KAMRUP (METRO)  
Phone No. : 9577782943  
State Name : ASSAM  
GST No. : 18AHUPB7735L1ZO  
Contact No. : 9577782943

WO NO. : BIPL/KBH-26/AUG/2024  
DATE : 16/Aug/2024  
Qut/Ref. No. : EST-140  
START DATE : 05/Nov/2024  
END DATE : 05/Nov/2024

**Billing Address:**

BHARTIA INFRA PROJECTS LIMITED  
201, 2nd Floor, Royal Arcade, Dr. B. Baruah Road,  
Ulubari, Guwahati  
Pincode: 781007  
GST No.: 18AACCB3413B1ZD

**Site Address:**

BHARTIA INFRA PROJECTS LIMITED  
KALIABOR HOSPITAL PROJECT  
Jakhlabandha, Hospital, chariali, Assam  
Pincode :782136

Subject:- PILE LOAD TEST

Dear Sir/Madam,

With reference to your quotation/subsequent discussion, we are pleased to place our order for the same, as per terms & conditions mentioned below:

Sr.	Task	Rate (In Rs.)	Unit	Qty (Approx)	Amount (Approx)	CGST		SGST / UTGST		AMT.
						Rate/Amt	Rate/Amt	Rate/Amt	Rate/Amt	
1	ROUTINE VERTICAL PILE LOAD ON....	650.00	MTR	1.00	650.00	9%	9%	58.50	58.50	767.00
Task : ROUTINE VERTICAL PILE LOAD ON DESIGN LOAD 52.69 AND 57.09 AT KALIABOR SITE (DESIGN LOAD + 1.5 TIMES + 20%)										
Item of Work : ROUTINE VERTICAL PILE LOAD ON DESIGN LOAD 52.69 AND 57.09 AT KALIABOR SITE (DESIGN LOAD + 1.5 TIMES + 20%)										
2	PILE INTEGRITY TEST AT KALIBOR	170.00	NOS	1,171.00	1,99,070.00	9%	9%	17,916.30	17,916.30	2,34,902.60
<b>Total</b>										<b>1,99,720.00</b>
<b>CGST Total</b>										<b>17,974.80</b>
<b>SGST/UTGST Total</b>										<b>17,974.80</b>
<b>Round Off</b>										<b>0.40</b>
<b>Grand Total</b>										<b>2,35,670.00</b>

PAN No. : AACCB3413B

**TERMS & CONDITIONS :**

**1) Scope Of Work :**

1. Work Quantity may be increase or decrease as per site condition
2. Work should be done up to satisfactory level of E.I.C



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# GET IN TOUCH

## **CONTACT US :**



(+91) 9577782943



[www.nerlt.com](http://www.nerlt.com)



[office@nerlt.com](mailto:office@nerlt.com)



**OFFICE:** Room No: 50, G.M.C. Market, Anandaram  
Baruah Setu, Chandmari, Guwahati, Assam  
781003

**LABORATORY:** House No 4, Salbari- Noonmati  
Road, Noonmati, Guwahati, Assam 781020

