

INVITATION FOR Quotation

Subject : - Widening and upgradation to 2 lane with paved shoulder configuration and Geometric Improvement from Km 85+00 to Km 95+00 to Km 101+00 to Km 145+00 of Tura Dalu Section of NH 51 in the State of Meghalaya on EPC mode under JICA loan assistance - **Standard Penetration Test** reg.

Scope of work: -

| Sr. No. | Particulars and specification | No. / locations | Remarks |
|---------|--|-----------------|---|
| 1 . | <p>Standard Penetration test</p> <ul style="list-style-type: none">• Specification : - IS 2131 and MoRTH Specification 5th Revision• Borehole termination point: - Minimum 15 m and can be increased by 2 meter depending on site situation. In case of availability of Hard strata before 15 meter depth, borehole will made 2-3 m deep from the hard strata layer.• Data to be recorded and submission of report:<ul style="list-style-type: none">○ Bore log Details○ Soil profile○ Laboratory investigation on soil samples taken from boreholes/ trail pits will measure grain size, density, shear strength, compressibility, chemical composition and moisture content such that the soil can be categorized. (sample attached)○ SPT test report as per IS 2131○ Any other relevant details. | 11 Nos. | <ol style="list-style-type: none">1. Any changes or additional data required from SPT test can also be sought and same will not attract any change of scope or additional variation of cost.2. The party must have similar experience at least in 2 NH road projects.3. Party should be certified from NABL |

Submission of Quotation: - Interested party may send their quotation on the following address on or before 17.04.2023

NHIDCL, RO Shillong
Parkside Building, First Floor, New BSNL, Barik, Shillong, Meghalaya – 793001
Email Address: - edproshillongnhidcl@gmail.com

NHIDCL, PMU Tura
House no. 31, C/O P.K. sangma
Rongkhon Songgital
Dakopgre, Tura, Meghalaya 794101
Email Address: - pmutura337@gmail.com

Other Terms and conditions:-

1. The quoted rate should include all of taxes including GST.
2. NHIDCL reserves the right to negotiate the base rate/optional rate with the selected party if deemed fit.

3. Performance Security: - The Selected party shall submit Performance Security amounting to 2% of the contract value in form of a Fixed Deposit Receipt/ Term Deposit Receipt/ Demand Draft from a Nationalized bank in favor of ED (P), NHIDCL, RO Shillong

WJ 12.04.2023.

General Manager(P)
NHIDCL, PMU-Tura
Email- pmutura337@gmail.com

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|---------------------|---------------------------------|--------------------------------|-----------------|-----------|
| DATE STARTED | COMPLETED | GROUND ELEVATION | DATUM | HOLE SIZE |
| DRILLING CONTRACTOR | COORDINATES: LATITUDE | LONGITUDE | | |
| DRILLING RIG/METHOD | GROUNDWATER AT TIME OF DRILLING | Not Encountered | | |
| LOGGED BY | CHECKED BY | GROUNDWATER AT END OF DRILLING | Not Encountered | |
| HAMMER TYPE | GROUNDWATER AFTER DRILLING | N/A | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE | BLOW COUNTS (FIELD VALUE) | POCKET PEN (psi) | DRY UNIT WT (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS | FINES CONTENT (%) |
|------------|-------------|--|-------------|---------------------------|------------------|-------------------|----------------------|------------------|-------------------|
| 0.0 | | | | | | | | | |
| 2.5 | | POORLY GRADED GRAVEL with SAND and CLAY (GP-GC), olive gray brown, medium dense, very fine to medium sand, angular gravel up to 2 in (ARTIFICIAL FILL) | CM | 5-5-8 | | | | | |
| 2.5 | | FAT CLAY with SAND (CH), brown to gray brown, moist, hard, angular to rounded gravel up to 1/2 in., very fine to medium sand | CM | 7-11-11 | | | | 60 25 37 | 68 |
| 5.0 | | GRAVELLY LEAN CLAY with SAND (CL), dark gray brown and brown, moist, hard, calciche | CM | 10-12-12 | | 104 | 16 | | |
| 5.0 | | LEAN CLAY (CL), dark brown, dry to moist, hard, trace to few subrounded to subangular gravel up to 3/4 in., trace sand nodules | CM | 5-12-16 | | | | | |
| 7.5 | | LEAN CLAY with SAND (CL), dark brown, dry to moist, hard, very fine to medium sand, isolated angular gravel up to 1 in., thin lens of silty sand at 7.5 ft (Base of fill between 7.5 and 8.0 ft) | CM | 18-24-23 | 4.5+ | 100 | 20 | | 74 |
| 7.5 | | Start of A-B soil between 7.5 and 8.0 ft | | | | | | | |
| 10.0 | | LEAN CLAY (CL), dark brown, moist, hard, trace sand, trace gravel at 9 ft, very fine to coarse sand (OLDER ALLUVIUM) | CM | 21-21-23 | | | | | |
| 10.0 | | LEAN CLAY (CL), dark brown, moist, hard, isolated angular gravel up to 1.5 in., trace sand, trace calciche, sandstone rock fragments | CM | 6-13-19 | 4.5+ | | | | |
| 10.0 | | Base of A-B soil at 12 ft to 12.5 ft | CM | 18-20-23 | | 94 | 24 | | |
| 12.5 | | LEAN to FAT CLAY (CL-CH), dark gray brown, moist, hard, isolated subrounded gravel up to 2 in., sandstone rock fragments | | | | | | | |
| 12.5 | | Top of Bl-Bk soil at 12 ft to 12.5 ft | CM | 22-25-25 | 4.5+ | 96 | 24 | | |
| 12.5 | | LEAN to FAT CLAY (CL-CH), black to very dark gray (10YR 2/2 to 3/1), moist, firm to hard, trace sand | | | | 96 | 27 | | |
| 15.0 | | LEAN to FAT CLAY (CL-CH), dark gray brown, moist, firm to hard, trace sand, trace gravel, calciche | CM | 8-9-12 | | 89 | 32 | | |

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Sample