Notice Inviting Tender (NIT)

NIT No.- ERO/MMD/666/1018

Sub: Tender for Soil Investigation work for construction of Multi Purpose Cyclone Shelter at Baishali kanya Vidyalaya, Purba Medinipur, West Bengal.

Offers is sealed envelopes are invited from any Government Institutes for rendering Soil Investigation work and construction of Multi Purpose Cyclone shelter at Baishali kanya Vidyalaya, Purba Medinipur, West Bengal.

The Government Institutes who are financially sound and having technical expertise in Geo technical investigation work etc. can submit their offer. The bidders are requested to furnish the documents as required in respect of their credential as per details given in Sl. no. 4 below:

1. **Scope of work**: Soil Investigation work for Construction of Multipurpose Cyclone Shelter at Baishali kanya Vidyalaya, Purba Medinipur, West Bengal.

2. **Completion time**: 30 days from the date of LOI/Work order

3. **PQ Criteria**: Central/State Government Institutes who have experience in conducting Soil Investigation work

4. **Type of Bid**: Two part bids
   - **1st Part**: i) Techno Commercial bid (In duplicate) under a sealed cover
   - **2nd Part**: ii) Price bid (under a sealed cover)

   a) **1st part Techno Commercial Bid (Envelop -1)**: In this part bidders are requested to furnish i) The complete tender document (Annexure –II-Scope of work) including unpriced price format as per Annexure-II (In Duplicate and deviation sheet (if any) duly signed and stamped on each page as token of Under a sealed their acceptance. This envelop shall be sealed and super scribe the envelop with “techno Commercial bid”. For soil Investigation for construction of Multi purpose Cyclone shelter at Baishali kanya Vidyalaya, Purba Medinipur, West Bengal.

   PQ Criteria Documents in support of fulfillment of PQ criteria to be submitted along with the tender in the 1st part envelope – 1.

**Earnest Money Deposit**: All tenders shall be accompanied by Earnest Money Deposit (EMD) of Rs.3,000/- (Three thousand only) This shall be in the form of Pay Orders/Bank Draft Crossed Demand Draft; in favour of "ENGINEERING PROJECTS (INDIA) LTD., payable at Kolkata from any Nationalized/Scheduled Bank or in the form of Bank Guarantee from any Nationalized / Scheduled Bank. Tender submitted without EMD or with inadequate amount of EMD of the tender shall be rejected. EMD of the successful bidder will be converted to Security Deposit and will be returned within 15 days after successful completion of the work. EMD of the unsuccessful bidder will be returned within 15 days of finalization of Work Order.
b) 2nd Part Price Bid (under a sealed cover envelope - 2) : In this part bidder should enclose only price bid as per price bid format enclosed at Annexure-III. The form of price bid duly filled in lump-sum charges including all duties, education cess, levies etc. for soil investigation, both in words and figures in the same form as issued to bidders should be submitted in this envelop with superscription “Price Bid” cutting and over writing not allowed. Soil investigation work for construction of Multipurpose cyclone shelter at Baishali kanya Vidyalaya, Purba Medinipur, West Bengal. Any terms and conditions or deviation if any or any other documents should not be kept in this envelop (price bid). The sealed price of such bidders who are found technically acceptable in accordance with the pre qualification criteria shall only be opened.

Both the envelopes duly marked as 1 & 2 shall be separately sealed and kept in a third envelope.

5. Validity of offer : 90(Ninety) days from the last date of submission of offer

6. Due date of Bid opening : a) Date of collection of NIT document : 18.08.2014 upto 4.00 PM
   b) Last date and time of submission of offer : 19.08.2014 upto 2.00 PM
   c) Opening of Techno Commercial Bid : 19.08.2014 at 3.00 PM

7. Rate

Rate shall be firm for entire period of work. No other claim shall be entertained against the work except the BOQ rate.

8. Payment Terms

   a) 80% payment shall be released after completion of field work and submission of two copies of test report.

   b) Balance 20% shall be released after checking and verification of the report within one month from the date of submission of report.

9. Taxes and duties

The rates are inclusive of all taxes and duties. ITDS shall be deducted from the bills as per the prevailing rate.

10. Liquidated Damages

In case of delay in execution of work due to reason attributable to the party, liquidated damages shall be charged at the rate of one percent (1%) of the contract value per week, subject to maximum of ten percent (10%) of the total value of contract.

11. Address of submission of tender : MANAGER (MMD) ENGINEERING PROJECTS (I) LIMITED 50, Chowringhee Road, 9th floor, Kolkata - 700071 Telephone : 2282 4426-27 Fax : 2282 4428.
12. General Notes

(i) Complete tender documents consisting of the following can be downloaded directly from EPI's/CPPP web site.

a) NIT No. ERO/MMD/666/1018 dated 31.07.2014 at Annexure I and scope of work at Annexure- II.

b) Format for price bid format at Annexure –III.

(ii) The complete set of tender document can also be collected by the bidders from EPI’s office at 50, Chowringhee Road, 9th floor, Kolkata office on working days between 9 AM to 5.00 PM (from Monday to Friday).

(iii) The Terms and Conditions contained in this NIT and tender documents shall be applicable. Incase of any unscheduled holiday take place on the last day of issue of tender/ submission of Tender, the next working day will be treated as schedule day and time of issue / submission of Tender

(iv) The Bidder shall return above documents (Annexure-III) along with their offer duly signed and stamped in each page. The tenderer are requested to give their offer in sealed cover on lump sum price basis for soil investigation.

(v) EPI reserves the right to accept any or reject any or all offers or extend the date of submission of offer or cancel any or all the tender(s) or annul this process without assigning any reason whatsoever. The corrigendum, extension, cancellation of NIT, if any, shall be hosted in EPI’s website only. The intending bidders are requested to visit the EPI’s website regularly for this purpose.

(vi) In case of tie tender, where two firms are bidding lowest, EPI reserves the right to split the work among this Bidders and / or EPI will reserve the right to award the tender to any one of such bidder.

MANAGER (MMD)
EASTERN REGIONAL OFFICE, KOLKATA

Encl: Annexure I - NIT - 03 pages
Annexure II - Scope of work & BOQ - 01 pages
Annexure III - price bid format - 02 pages
Geo-Technical Investigation
For Multipurpose Cyclone Shelter under
PMNRF at Purba Medinipur in West Bengal

Introduction ::

National Disaster Management Authority (NDMA) has appointed Engineering Projects (I) Ltd as execution agency for construction of Multipurpose Cyclone Shelter (MPCS) Baishali kanya Vidyalaya, Purba Medinipur, West Bengal.

Cyclone shelter shall be RCC structure consisting of stilt +1\textsuperscript{st} floor +2\textsuperscript{nd} Floor + Roof. It is to be designed to withstand wind velocity of 300 km per hour. Floor & Roofs are designed for live load 500 kg/sqm as per IS 875-1964. It is designed to be earthquake resistant as the district fall in Zone IV & II.

Scope of work::

1. The board scope of geo-technical work shall be as under ::

1.1 The mobilization of all tools & plants and accessories labour etc. at site including setting of boaring rig for making 150 mm dia borehole.
1.2 Collection of disturbed & undisturbed samples and conducting Standard Penetration Test (SPT) at different depths as per BIS specification.
1.3 carrying of samples to the laboratory and performing laboratory test on disturbed and undisturbed and remodeled samples to find out LL, PL, Sieve Analysis, Hydrometer Analysis, direst shear test. Unconfined compression test, tri-axial test and determination of nature moisture content, Bulk Density, Sp. Gravity etc.
1.4 preparation and submission of detail report along with recommendation for suitable foundation system.
1.5 Calculation of evaluation of safe bearing capacity & settlement of Soil, Pile load capacity (vertical & lateral) etc.

2. Geo-technical investigation for each site as per latest relevant BIS code. The investigation shall comprise of minimum 2 Bore logs upto the depth of minimum 25 metres.

3. During sinking of bore holes soil samples both in disturbed and undisturbed conditions to be collected for laboratory tests. The disturbed samples would be subjected to tests to obtain soil index properties. The undisturbed soil samples, however, would be used mainly for conducting tests to obtain shear strength parameters as well as consolidation characteristics of the soil representing the strata.

4. The formation at the site is to be reported for various layers present at their respective depths along with their thickness in bore-log data. As ground water table location influences the method of construction of foundation at a site its location also bees to be found out.

5. Conducting soil investigation work at all the locations shown in Annexure, including preparation of drawings & report covering all parameters and requirements as per latest I.S code & standards.
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Drilling up to 150 mm nominal diameter boreholes at one location to any depth below ground level in all kinds of soil (including rock, if present) using suitable approved method of boring, including cleaning, providing casing pipe as required, performing standard penetration test at every specified interval and at change of strata, collection of water sample, disturbed soil sample, various observations such as ground water levels etc, collection of undisturbed soil sample, at specified intervals and at change of strata, transportation of all the collected samples to the laboratory and back filling of boreholes on completion of same including preparation and submission of borelog as per standard proforma and also including changes of tools, plants etc as required to complete the work (Minimum 2 nos. bore-hole at each side)</td>
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<td>a) From natural G.L to 25 m depth or refusal</td>
<td>Meter</td>
<td>50</td>
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<td>(Note : rate for item no. 1, to be quoted in totality considering item no. 1,2,3,4 &amp; 5 as specified, and no separate payments shall be made for item no. 2,3,4 &amp;5)</td>
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<td>2</td>
<td>Conducting laboratory tests on the samples collected at different levels of the following and any other relevant tests required to ascertain soil characteristics.</td>
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<td></td>
<td>a Bulk density, dry density and void ratio</td>
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<td></td>
<td>b Natural moisture content (NMC)</td>
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<td>Sieve Analysis &amp; Hydrometer test for grain size analysis</td>
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<td>Liquid limit &amp; Plastic limit, Shrinkage limit</td>
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<td>Specific Gravity</td>
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<td>UC test on undisturbed sample &amp; other shear parameters</td>
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<td>g</td>
<td>Determination of sub grade modules</td>
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<td>h</td>
<td>Tri-axial/direct shear test under different condition (combination of un-consolidated, consolidated, un-drained, drained condition)</td>
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<td>3a</td>
<td>Chemical analysis of soil and water sample to determine the carbonate, sulphate, chloride, nitrate contents, pH value, turbidity, organic, matter and any other chemical harmful to foundation materials all complete.</td>
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<td>3b</td>
<td>Laboratory permeability test</td>
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<td>Electrical Resistivity Test</td>
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<td>5</td>
<td>Submitting report (in three hard copies and one soft copy) including all bore logs, field records, laboratory test results, graphs/tables and recommendation of type of foundation &amp; capacities etc. showing bore hole locations etc. complete in all respect</td>
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<td>*Sub-Total</td>
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<td>Add Service Tax @ 10.3% on above / as applicable</td>
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<td>Total</td>
<td>Job 1</td>
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*Sub total includes all taxes & duties applicable except services taxes.