सत्यमेव जयते

भारत सरकार / GOVERNMENT OF INDIA
केंद्रीय लोक-निर्माण विभाग/ CENTRAL PUBLIC WORKS DEPARTMENT
कार्यपालक अभियंता का कार्यालय / O/o The Executive Engineer,
के.लो.नि.वि / CPWD, द्वतीय मंज़िल / 2nd Floor,
बी.एस.एन.एल टेलीफोन एक्सचेंज बिल्डिंग/ Telephone Exchange Building,
एन.एच – 16 / NH - 16, औद्योगिक एस्टेट / Industrial Estate
विशाखापट्टणम/ VISAKHAPATNAM - 530 007
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CPWD

सं. 67(1)/का.अ/Vizag/2026/ 1446 (H) दिनांक: 13 /11/2026

NOTICE INVITING E-QUOTATION

The Executive Engineer, Central Public Works Department, Visakhapatnam on behalf of the President of India invites online percentage rate e-Quotation from the eligible CPWD enlistment contractors/ Consultants like reputed Engineering Colleges and NABL approved Testing Laboratories for the following work:

Sl. No.	Name of Work & location	Estimated cost put to e-Quotation	Period of Completion	Last date & time of submission of bid	Time and date of opening of the e-Quotation
1.	Construction of Storage Godown at Regional Coffee Research Station (RCRS) with RCC slab at R.V. Nagar, Alluri Sitharama Raju District, Andhra Pradesh **SH:-** Conducting geotechnical investigation including submitting the Report.	₹ 1,54,154.00	15 (Fifteen) days	21.11.2026 up to 15:00 Hrs.	At 21.11.2026 at 15:30 PM

A. ELIGIBILITY CRITERIA

Bidders who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.

Bidders should have satisfactorily completed the works as mentioned below during the last five years ending 31.03.2026:

I. Three similar works each of value not less than Rs. 0.62 Lakh.

II. Two similar works each of value not less than Rs. 0.92 Lakh.

III. One similar work of value not less than Rs. 1.23 Lakh.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid.

'Similar work' shall mean works of **"Soil Investigation"** with any Central/ State Government Department/ Central Autonomous Body/ State Autonomous Body/ Central Public Sector Undertaking.

B. INFORMATION AND INSTRUCTION FOR BIDDERS FOR e-QUOTATION

1. The e-Quotation can be seen on the website www.etender.cpwd.gov.in/eprocure.gov.in and shall be submitted through it before the due date and time. The intending bidder must have valid Class-III digital signature to submit the quotation

2. Those **bidders** not registered on the website mentioned above, are required to get registered beforehand. If needed, they can be imparted training on online bidding process as per details available on the website.

3. On opening date, the bidder can login and see the bid opening process. After opening the bid, he will receive the competitor bid sheets.

4. Bidder can upload document in the form of JPG format and PDF format.

5. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified consultants to any number deemed suitable by it, if too many quotations are received satisfying the laid down criterion.

6. **The bid submitted shall become invalid if:**

   (i) The bidder is found ineligible.

   (ii) If any discrepancy is noticed between the documents uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of quotation opening authority within one week after the date of opening.

7. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a consultant for a period of one year after his retirement from Government Service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the consultant or any office employee is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the consultant's service.

8. The work shall be carried out as per direction of Engineer in charge.

9. **Date of completion shall be 15 (Fifteen) Days from issue of work order.**

10. ***Intending bidders are advised to inspect and examine the site before submitting their quotation.***

11. Rate quoted should be inclusive of all incidental charges and taxes including GST. Nothing shall be paid extra on account of this.

12. Statutory deductions shall be made from the bill as per prevailing rules.

13. The payment will be made on receipt of bill after completion of work.

14. First & Final payment will be made. No intermediate payment shall be done.

15. Bidders must ensure to quote percentage rate on the estimated cost put to quotation at specified format of Schedule of quantities (SOQ) after choosing the option from the cell "Please click here to select the option". The cell for quoting the rates in figures appears in yellow colour and the moment rate is entered, it turns sky blue.

List of Documents to be scanned and uploaded within the period of bid submission:

a) Certificates of Work Experience as mentioned at eligibility criteria PARA "A" of this NIQ.

b) PAN CARD

c) GST registration certificate of the State in which the works is to be taken up, if already obtained by the bidder.

If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.

"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any Payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard".

Scope of work:

1. The proposed work Soil Investigations shall be carried out as per the BOQ, relevant IS & CPWD Codes (latest editions) and standard practice of the work. The work would be carried out under the direction and supervision of the Engineer-in charge for ascertaining the profiles and the engineering properties of the soil for foundations and water table availability, quality etc. for the proposed **"Construction of Storage Godown at Regional Coffee Research Station (RCRS) with RCC slab at R.V. Nagar, Alluri Sitharama Raju District, Andhra Pradesh. SH:- Conducting geotechnical investigation including submitting the Report."**.
2. The work shall be carried out as per the relevant Indian Standards, with latest revisions, on soils and foundations for field investigations and laboratory testing.
3. Boring shall be carried out in accordance with the provision of IS: 1892 with shell and auger equipment. The boreholes shall have a diameter of 150 mm or as specified in the BOQ and shall be suitably lined throughout. The toe of the lining shall at no time be more than 1.0 m above the level to which the material has been removed from the bore hole.

Auger of proper size shall be used in soft to firm clays and silts to avoid suction. The use of shell only is restricted to moderately stiff to hard clays and sandy strata below water table. The use of a chisel bit shall be permitted only in boulder or rock formation or through local obstructions.

Uncased boreholes may be permitted only up to a depth where the sides of the hole can stand unsupported. In case side falls or squeezing is noticed, steps shall be taken immediately to stabilize the sides of the borehole by casing pipes as directed by the Engineer-in-charge. Bentonite slurry may be permitted to stabilize the borehole as directed by the Engineer-in-charge.

No water shall be added while boring through cohesive soil and cohesion less soil above water table. While boring through cohesion less soil below water table, water level in casing shall always be maintained at or above the water table.

The cutting brought up by the auger, shell or cutting shoe of the split spoon or undisturbed sampler shall be carefully examined and the soil description duly recorded after performing field identification test.

Wherever in-situ tests are conducted and undisturbed samples are obtained at specified depths from the borehole, care shall be taken to ensure that the borehole is properly cleaned and free from foreign matters at the time of conducting these operations.

After completion of the boring at the borehole, a bore log shall be prepared in an approved Performa or as per IS: 1892 and submitted to the Engineer in duplicate. Backfilling of the borehole shall be carried out in an approved manner as directed by the Engineer-in-charge.

3.2 Water Table in Boreholes

Water table in boreholes shall be carefully measured and recorded in an appropriate manner in the bore log data.

3.3 Termination Criteria

If very hard strata are met within the borehole at depths shallower than specified, the bore hole shall be terminated at a depth where N> 75 values are obtained consistently. Also, to get more accurate data and ascertain the actual soil strata underneath the bore, a second borehole at around 15 to 20 m radius around the original borehole should be made. The termination of this second borehole will be as per specified depth or at hard strata as mentioned above

3.4 Disturbed sample

Disturbed sample shall be taken from borehole cutting, split spoon sampler and cutting edge of undisturbed sampler for clarification test at the site in duplicate. The sample should be taken at 1.0m interval or at any identifiable change of strata, whichever is met earlier to give a reliable record of the variations in the conditions of the soils, if sent to the laboratory for testing or handed over to the Engineer in air tight container for the purpose of record.

3.5 Undisturbed sample

Undisturbed sample shall be taken from the boreholes at the intervals stipulated in the BOQ or at every identifiable change of strata whichever is met earlier:

In case of sandy strata, the sampling shall be suitably increased. Sampling procedure sand sampler for recovering undisturbed samples shall normally confirm to IS: 2132 unless otherwise specified and directed by the Engineer-in-charge.

In case of cohesive deposits, an open tube sampler or a piston sampler shall take undisturbed sample. The size of the sampler should be such that a sample having a minimum size of 100 mm diameter and 300 mm long can be recovered. Recovery ratio shall be observed and reported in the bore logs for every sample. The samples shall be sealed, packed and properly labeled and transported to the laboratory as laid down in IS 2132. The top and bottom of a sample tube must be indicated clearly on the sample tube to facilitate the laboratory testing in proper orientation.

3.6 Standard Penetration Test

Standard Penetration Test (SPT) shall be conducted as per IS: 2131 at intervals of 1.5M or at every identifiable change of strata whichever is met earlier (distances being measured below the existing ground/bed level).

The driving of the split spoon shall be terminated only when number of blows is greater than 75 per 30cm of penetration. The test shall be conducted after driving the casing to the bottom of the borehole and after cleaning it.

3.7 Water Samples

Water sample shall be collected in accordance to provision of IS–1892 and as per the following specification.

Water samples should not be collected from borehole in which Bentonite slurry has been used. If possible water samples shall be collected even before addition of water to borehole. While collecting the water sample it is essential to make sure that subsoil water is not contaminated by dry soil, rain or surface water. If not possible then water level in borehole shall be lowered up to the bottom of the borehole then allowed to rise by seeping through wall of borehole. Water sample shall be stored in air tight container preferably of glass or plastic. Water sample shall be given for necessary laboratory testing at the earliest.

3.8 Field Dry Density Test

Field dry density tests shall be carried out as per IS: 2720 part XXVIII. These tests are to be conducted at selected location after removing top 0.3m of soil. Approximately 10 kg of distributed samples shall be collected from the test locations after conducting the tests. The distributed sample shall be tested for natural moisture content and standard proctor density to determine maximum dry density and optimum moisture content. The distributed soil samples shall also be tested for liquid and plastic limit and grain size analysis.

3.9 Geo Physical Investigations

Electrical Resistivity shall be conducted as per IS: 1892.

3.10 Dispatch of Samples

Samples shall be dispatched to the laboratory as soon as possible after being obtained and shall not be allowed to accumulate on site. If it appears to the Engineer that there is a danger of samples deteriorating through further storage, the Agency shall dispatch such samples as soon as directed by the Engineer

3.11 Daily boring and drilling report

Complete record of drilling and boring shall be submitted along with drill observer's remarks as per approved perform for all the boreholes.

3.12 LABORATORY TESTING

Laboratory test shall be conducted on samples collected from field covering all the bores using procedures specified in the relevant Indian standards. Skilled personnel shall conduct all laboratory tests. Preparation of test specimens for the various tests shall be carried out as per the procedure laid down in various relevant IS codes

3.13 Unconfined Compression Test

Unconfined compression test shall be carried out as per IS: 2720 (part X). The test shall be conducted on natural and remoulded soil sample. Remoulded soil sample shall be prepared by the dynamic method of compaction.

Each unconfined compression test shall comprise test on a minimum of three soil specimens not less than 38mm diameter and a height to diameter ratio of 2, together with the determination of natural moisture content and density. The water content of the specimen shall be taken from the failure zone of the specimen. The test shall be observed and reported as per the standard practice. The bidders shall quote in the bill of quantities for each test to include for all the above mentioned items.

3.14 Tri Axial Test

Tri axial test shall be conducted on the undisturbed sample selected by the Engineer. These tests shall be conducted as per IS: 2720 (part XI, XII). Each test shall be conducted on a minimum of three specimen tested at different cell pressure (0.5, 1.0 and 1.5 kg/cm2). The moisture content before and after the test and the density of each specimen shall be determined. The rate inserted in the bill of quantities for the Tri Axial Compression test by the tenderer shall include for all the above items. The Stress-Strain diagram as well as the Mohr circle envelopes shall be included in the report.

3.15 Consolidation Test

Consolidation test shall be conducted on undisturbed sample selected by the Engineer. The co-efficient of consolidation (CV) the coefficient of volume compressibility (MV) and compression index (CC) and the coefficient permeability (k) shall be determined and reported. Loading and Unloading of the test specimen shall be done in suitable stages.

3.16 Chemical Analysis

Chemical analysis of soil and water shall be carried out. Chemical analysis of water shall be carried out as per IS 10500 for Colour, Hazen units, Odour, Turbidity, NTU, PH, Total dissolved solids (mg/l), Chlorides (as Cl), Total Hardness (as aCO3), Iron (as Fe), Fluoride (as F), SILICA as SiO2.

3.17 Indian Standard Light Compaction

Test shall be carried out on disturbed samples as per IS: 2720 (part VII) to determine moisture density relation and maximum dry density and optimum moisture content shall be reported. The sample for compaction test shall be collected at location directed by the Engineer-in-charge and from 0.3 m depth below ground level by excavating a suitable size pit.

3.18

Laboratory CBR test shall be carried out as per IS: 2720 (part XVI).

3.19 Bore logs

On completion of each borehole, three copies of a preliminary bore log with all relevant data shall be submitted to the Engineer together with one set of the disturbed samples taken in the borehole.

The preliminary bore logs shall show:

(i) Ground level referred to the available benchmark at site.

(ii) The location of the borehole, on a plan.

(iii) The preliminary description of each stratum.

(iv) The thickness of each stratum with the boundaries.

(v) The position, type and identification of each sample and site test.

(vi) Any site test results available

(vii) The level at which each separate ground water level is first encountered at which it comes to rest (standing water level).

3.20 REPORT

On completion of all field and laboratory testing, a detailed report shall be prepared and submitted to the Engineer. The report should contain position of bore holes and all test results, bore logs and recommendations for type of foundation.

Sumishra

Executive Engineer
CPWD, Visakhapatnam

Schedule of Quantities

Name of the work : Construction of Storage Godown at Regional Coffee Research Station (RCRS) with RCC slab at R.V. Nagar, Alluri Sitharama Raju District, Andhra Pradesh.

SH:- Conducting geotechnical investigation including submitting the Report

S.I No	Description of items	Quantity	Unit	Rate	Amount
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	100.00	Sqm	18.84	1884.00
2	Soil investigation for foundations by means of drilling boreholes up to a maximum depth of 10m (OR) 3 meters Hard rock strata whichever is met earlier with Rotary rig, (refusal strata shall mean where N-Value is greater than 100), conducting calibrated SPT and collection of distubed andundisturbed samples at regular intervals in the borehole. Conducting the following laboratory tests wherever applicable on soil samples collected in the borehole including Mobilisation of men and material to the site, shifting from one location to the other, staff, D.A etc., The following Lab Testing and Report preparation in Andhra University (a). Grain size analysis (b). Atterberg limits (c). Natural density (d) Water content (e) Specific gravity (f) Triaxial shear test (g) Free swell index tests (h) Sulphates and Chlorides test.				
2.1	Submitting the geotechnical report in triplicate with foundation recommendations from field and laboratory test results, calculations for allowable bearing pressure & precautions to be taken, if any, in both hard copies and soft copies as per direction of Engineer –in-charge complete.				
2.1.1	Coffee Research Station (RCRS) at R.V. Nagar	2.00	Each	76135.15	152270.00
				Total :	**1,54,154.00**

Executive Engineer
CPWD, Visakhapatnam