

**CONSTRUCTION OF 100 BEDDED MOTHER AND
CHILD BLOCK, UNDER NRHM FOR S.A.T HOSPITAL
AT THIRUVANANTHAPURAM, KERALA**

**TENDER FOR
SOIL INVESTIGATION
TOPOGRAPHICAL, GEOTECHNICAL &
HYDRO-GEOLOGICAL SURVEY WORK**

DATE OF ISSUE: 05.12.2014

LAST DATE & TIME OF SUBMISSION: 22/12/2014 (up to 15Hrs)

Dec' 2014



**HSCC (INDIA) LTD.
(GOVERNMENT OF INDIA ENTERPRISE)
E-6(A), Sector-1, NOIDA(U.P) 201301 (India)**

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Tender No. HSCC/NRHM/SAT/HOSP-MCH/TVC-KERALA/2014

NATIONAL RURAL HEALTH MISSION
Thiruvananthapuram , Kerala

Tender No. HSCC/NRHM/SAT/HOSP-MCH/TVC-KERALA/2014

Date: 05.12.2014

NOTICE INVITING TENDER

Bids are invited by HSCC (I) LTD on behalf of State Mission Director, NRHM Kerala from Soil/Survey Investigation Agencies for the Soil Investigation, Topographical, Geotechnical and Hydro geological Survey Works for "Construction of 100 MCH block, for S.A.T. Hospital at Thiruvananthapuram, Kerala".

For more details in regards to eligibility, bid security, purchase and submission of tender document, please refer detail advertisement and tender documents made available at HSCC website www.hsccLtd.co.in.

Prospective bidders are advised to regularly scan through HSCC web site as corrigendum/amendments etc., if any, will be notified on the HSCC web site and separate advertisement will not be made for this.

DGM (Civil), HSCC (I) Ltd

Name of Work: Soil Investigation, Topographical, Geotechnical & Hydro-geological Survey work

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Tender for the Soil Investigation, Topographical, Geotechnical and Hydro geological Survey Works for “Construction of 100 MCH block, for S.A.T. Hospital at Thiruvananthapuram, Kerala”.

Offers are hereby invited by HSCC (India) Ltd. for and on behalf of the State Mission Director, NRHM Kerala (owner) from competent* Survey/Soil Investigation Agencies. The agency shall carry out the Soil Investigation, Topographical Survey, Geotechnical Investigations and Hydro geological Survey for the above site as per enclosed scope of work, general terms and conditions, time period and mode of payments etc.

Complete set of tender documents has been made available only at HSCC website www.hsccltd.co.in interested applicants may download the same.

The interested agencies/firms may download the tender documents from HSCC websites www.hsccltd.co.in and submit complete set of tender documents along with the tender document fee of Rs. 500/- through demand draft in favor of HSCC (India) Ltd. payable at Noida. It will be the responsibility of applicants/firms to ensure that complete tender documents has been downloaded.

The offer shall be submitted in sealed covers marked “**Tender for the Soil Investigation, Topographical, Geotechnical and Hydro geological Survey Works for “Construction of 100 MCH block, for S.A.T. Hospital at Thiruvananthapuram, Kerala”**” as detailed below: -

ENVELOPE MARKED NO.1

Shall contain cost of tender of Rs.500/- (non-refundable) and an Earnest money of Rs.5,000/- (refundable) in the form of either demand draft or pay order in favour of HSCC (India) Ltd, payable at New Delhi / Noida.

ENVELOPE MARKED NO. 2

Shall contain all documents supplied with the tender **excluding Price bid** duly signed, filled and stamped.

ENVELOPE MARKED NO. 3

Shall contain all Price bid duly filled, signed & stamped.



These sealed envelopes 1 to 3 marked above should be sealed 4th envelope and submitted within due date & time, by registered post or by hand to the following address:

**Dy. General Manager (Civil),
HSCC (India) Ltd.,
Plot no. E-6(A),
Sector-1, Noida (U.P.) Pin-201301**

Last Date for the submission of bid document is 22/12/2014 upto 15 hrs.

Bids shall be opened in the office of HSCC (India) Ltd, Plot No. 6(A), Block-E, Sector 1, Noida, Distt.Gautam Budh Nagar, Uttar Pradesh, Pin - 201301,one and half hour after the prescribed time for tender submission in presence of the bidders representatives who may wish to be present.

State Mission Director/HSCC reserves the right to accept or reject any application without assigning any reason or incurring any liability whatsoever.

Prospective bidders are requested to regularly scan through HSCC website to announcement / clarifications /addendum/ corrigendum if any will be notified on the company website and separate advertisement will not be made for it.

Cost of tender form is Rs.500.00 (Rs. Five Hundred Only)

In case of last date of received of tender is declared /happened to be a public holiday; the tender will be received on the next working day.

Conditional tenders and tenders not filled in figure and words are liable to be rejected.

The bids shall be valid for 90 days from the last date of submission.

Dy. General Manager (Civil)

*As per pre qualifying criteria

Brief Description of Project:

Construction of 100 bedded mother and child block, for S.A.T. Hospital at Thiruvananthapuram, Kerala. The total covered area of proposed block is about 5988.21 square meters; the total land area to be surveyed is approximately 1.5 acres.

Pre Qualifying Criteria

Following is the pre qualification criteria for the tenderers:

Contractors working with CPWD, Railways, MES, P & T Deptt., State PWD's, Semi govt. Organizations and Institutes or in reputed private Sector Firms who have:

1. Average Annual financial turnover during the last three years, ending 31st March of the previous financial year, i.e. for FYs 2011-12, 2012-13 & 2013-14, should be at least 30% of the estimated cost.
2. Experience of having successfully completed similar works during last seven years ending last day of month previous to the one in which applications are invited should be either of the following;
 - a) Three similar completed works consisting not less than the amount equal to 40% of the estimated cost.

Or
 - b) Two similar completed works consisting not less than the amount equal to 50% of the estimated cost.

Or
 - c) One similar completed works consisting not less than the amount equal to 80% of the estimated cost.
3. Similar works here mean works mentioned in "Scope of Work".

All bidders should submit the proof of works executed as above & "Satisfactory Performance Certificates". Absence of submitting the same along with the tender will disqualify the bidder.

The estimated cost of the work is Rs.3,22,600/- (Rupees Three Lakh Twenty Two Thousand Six hundred only)

The competent authority to pre-qualify shall have the powers to relax any condition/criteria for pre-qualification if it considers expedient to do so.

SCOPE OF WORK

A. TOPOGRAPHICAL SURVEY & COLLECTION OF FIELD DATA AND REPORT

SUBMISSION

The Scope of work is detailed as under: -

1. Carrying out topographical survey including transferring the level from nearest available permanent G.T.S. benchmark
2. Establishment and construction of 1 nos. bench mark/grid pillars & providing fencing around them including all labour and materials for excavation, foundation, brick work and concreting work and 12 mm thick M.S. plate of size 200 mm x 200 mm with 500 mm long M.S. flat 40 mm x 3 mm, 2 nos. welded with each plate grouting and marking centre points etc.). The reduced level with respect to M.S.L. shall be engraved on each plate of the bench mark pillars as well as corresponding reference be given on the Survey Plan. The drawing for the construction of Bench Mark is attached along with it and same to be used for the construction of Bench Mark.
3. Spot leveling of total area of land/plot by taking spot levels at 5 m center to center grid and contour intervals at 0.5 m.
4. To locate on the survey plan in A1/A0 sheet to the scale of 1:200 with all permanent & temporary structures along with existing storm, sewer & water line, power (HT & LT) & telecommunication lines/poles, trees of various girths, roads, water supply, sewer, drainage line and also any other important features etc. adjacent and within the total area of plot, if any.
5. Following field data shall be collected and supplied in the form of report and drawings by the agency: -
 - a) Direction of North.
 - b) Prevailing wind direction and speed.

- c) Maximum, minimum, average, hourly, daily, monthly and annual rainfall for the last 10 years.
 - d) Daily maximum, minimum and average temperature for last ten years.
 - e) High Flood level near site
6. Existing water supply source data shall be collected and supplied as under:-
- i) Location and alignment of potable water source with reference to area under survey along with size and residual pressure available in and around the project site boundary.
 - ii) Total water storage capacity in existing tanks & details of consumption per day.
 - iii) Feasibility to connect proposed water supply from existing main ring.
7. Existing Fire fighting system data shall be collected and supplied for areas in and around the project site boundary as under : -
- i) Location and capacity of existing fire storage tank & fire pumps.
 - ii) Existing fire ring main – location, alignment, diameter, material of pipe, location of hydrants etc.
 - iii) Feasibility to connect fire line nearest to the proposed site.
 - iv) Local Bye-laws of the area.
8. Details about Sewer and storm water drain / nallah passing through/near the complex indicating the following details:-
- i) Location and alignment of drain / nallah
 - ii) Invert level / L-Section of the drain / nallah indicating slope.
 - iii) Cross-section of the nallah / drain at suitable locations.
9. Location of the road near the site indicating its layout with reference to site. The crown levels (L-section) of road/railway at 20 m. interval along the alignment are to be indicated.

10. Details of Municipal/Public sewer line:
 - i) Location, material, diameter and alignment of the existing sewer lines running in and around the project site. Location for suggested outfall point for sewerage of the proposed Complex.
 - ii) Location of manholes with size, ground level and invert levels of sewer line running around/near the project site.
 - iii) Feasibility to connect proposed sewer with existing sewer line.

11. Details of the proposed approach road connecting main road to project site to be supplied as under: -
 - i) Alignment of the road
 - ii) L-Section of the road indicating ground levels at 10 m centre to centre between main road and entrance of project site.
 - iii) Cross-section of the road extending up to 10 m distance on both sides of centre of road with levels at 5m. c/c.
 - iv) Crown level of the main road at the junctions with the proposed approach road.
 - v) Details - such as L.S. & C.S., Bed level, H.F.L. etc. of the cross drainage, if any.

12. Details of the existing boundary wall, temporary and permanent structures, if any, inside the site including the following shall be collected and supplied: -
 - i) Cross section of the wall
 - ii) Part elevations and cross-section of the buildings also showing. foundation.
 - iii) Length, width, height, area and no of stories of each building including details of materials used in construction.
 - iv) Location of existing trees (along with height and girth of the trees) and other permanent/ temporary structures.
 - v) Electric overhead lines (LT/ HT), telephone lines.
 - vi) The agency shall submit colored photographs (about 25) showing the major features of the site and its surroundings.

13. All survey, grid levels shall be done by Total Station and contour plan shall be prepared on computer through digitization process and the soft copy shall be provided for the same immediately.
14. On completion of all fieldwork, collection of pertinent field data and preparation of drawings the agency shall submit a formal draft report containing all the information/field observations and drawings, in triplicate for review of Supervising Agency. Thereafter the agency shall visit to Supervising Agency's office for detail discussions on Supervising Agency's comments if any. After discussion with the Supervising Agency, the agency shall incorporate the agreed modifications in the draft report at their own cost and submit six copies of the detailed final report (plastic coated with spiral binding) and 6 sets of drawings (the drawings shall bear the logo of HSCC and the format of the same can be obtained from HSCC) along with a set of reproducible drawings and related CD. The agency shall also submit along with report a copy of field book in original or an authenticated copy of the same duly certified by Engineer.
15. Description and photos of general surrounding and plot and of the team while carrying out the work awarded.
16. Plot has to be cleared of all vegetation including shrubs, bushes, etc. whatsoever before start of the work and all removed vegetation to be thrown as per HSCC directives.
17. The any above is not relevant or not covered in the report to be specifically listed out in draft report and obtain the above from HSCC/Client. Otherwise agency has to provide the same without an extra cost or paid accordingly.
18. Payment shall be made for actual survey area but not to exceed the quantity in the tender document.

B. GEOTECHNICAL INVESTIGATION AND REPORT SUBMISSION

- 1.01 Detailed Geo-technical Investigation is to be carried out of the area of plot and submission of a detailed Geo-technical report which shall be the basis for the design and detailing of foundations for buildings and structures.
- 1.02 Item wise list of investigations to be conducted along with approximate estimated quantities are given at Schedule of Quantities against which the agency shall quote the rates in figures as well as in words. However, payment shall be made as per quantities actually executed.
- 1.03 The work shall include mobilisation of all necessary equipments, providing necessary engineering supervision and technical personnel, skilled and unskilled labour etc. as required to carry out the entire field as well as laboratory investigation, analysis and interpretation of data collected and preparation of a Geo-technical report.
- 1.04 The Agency shall make their own arrangements for locating the coordinates and positions of bore holes, trial pits, dynamic cone penetration tests and other field tests as per the drawings/sketches supplied to him and for determining the reduced levels (R.L's) at these locations with respect to the single bench mark indicated by the Engineer. Two established reference lines will be indicated to him.
- 1.05 All the field and laboratory data shall be recorded in the proforma recommended in Indian Standards codes. The Agency shall submit to the HSCC one copy of field borelogs and all the field records (countersigned by the Engineer) soon after the completion of each borehole/test.
- 1.06 The Agency shall interact with HSCC and get acquainted with the broad guidelines about the different types of structures envisaged and in assessing the load intensities on the foundations for the various structures of the project in order to enable him to make specific recommendations for the depth, founding stratum, type of foundation and the allowable bearing pressure.