

**KOLKATA MEDICAL COLLEGE,  
KOLKATA  
(Up gradation of Medical Institutes under PMSSY)**

**TENDER FOR  
TOPOGRAPHICAL SURVEY WORK**

*July, 2007*

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**Consultant: HSCC (I) Ltd. E-6(A), Sector-1, NOIDA, U.P.-201301**

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**Name of Work: Topographical Survey work**

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## **Tender for Topographical Survey Works for “KMC, Kolkata”**

Offers are hereby invited by HSCC on behalf of the Ministry of Health & Family Welfare (owner) from competent \* Survey/Soil Investigation Agencies. The agency shall carry out the Topographical Survey for the above site as per enclosed scope of work, general terms and conditions, time period and mode of payments etc.

The offer shall be submitted in sealed covers marked “**Tender for Topographical Survey for “KMC, Kolkata” as detailed below: -**

### ENVELOPE MARKED NO.1

Shall contain cost of tender of Rs.500/- (non-refundable) and an Earnest money of Rs.2,000/- (refundable) in the form of either demand draft or pay order in favour of HSCC (India) Ltd, payable at New Delhi.

### ENVELOPE MARKED NO. 2

Shall contain all documents supplied with the tender duly signed and filled.

The last date of submission of tender is July 16, 2007 up to 1500 Hrs. The tenders shall be opened in the presence of the representatives of the bidders who wish to participate in tender opening at 1530 Hrs on same day i.e. July 16, 2007 in the office of HSCC (I) Ltd. at the following address:

**HSCC (India) Ltd.**  
**E - 6(A), Sector -1, NOIDA, Uttar Pradesh.**  
**Pin- 201301.**

Offers not complete in all respects and/or received without the cost of tender, earnest money, and conditional or not in accordance with our terms and conditions, will be summarily rejected. The decision of HSCC shall be final and binding in this regard. HSCC reserves the right to accept or reject any or all quotations without assigning any reason thereof and also take no responsibility for delay, loss or non-receipt of quotations sent by post either way.

Kindly note that offers shall be valid for three months from date of submission of your bid.

Thanking you.

Yours faithfully,

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(Uday Ravi)  
General Manager (D&E - Civil)

\* as per Pre Qualifying Criteria

**Brief Description of Project:**

Kolkata Medical College & Hospital Complex is enclosed by roads i.e. Eden Hospital Road & College Street. Three new buildings ie. OPD Block, Auditorium & SSB Building of area around 4500m<sup>2</sup>, 4000m<sup>2</sup> & 2123m<sup>2</sup> respectively are proposed to be constructed within the complex. Out of these two new buildings are to be made after demolishing existing buildings and OPD Block is to be constructed on vacant land within the premises of said complex.

## 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, 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 tenderers should submit the proof of works executed as above & "Satisfactory Performance Certificates". Absence of submitting the same along with the tender will disqualify the tenderer.

*The estimated cost of the work is Rs. 60,000/- Thousand (Rupees Sixty Thousand only)*

## SCOPE OF WORK

### 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 2 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 floppy diskette/ 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.

1.10 REPORT

1.10.1 General

a) On completion of all the field and laboratory work, the Agency shall submit a formal report containing all information as above.

b) The Agency's qualified Geotechnical Engineer shall visit Supervising Agency's office for a detailed discussion on Supervising Agency's comments on his draft report. During the discussions, Supervising Agency shall decide as to the modifications that need to be done in the draft report. Thereafter the Agency shall incorporate in his report the agreed modifications and after getting the amended draft report approved, six copies of the detailed final report (in A4 size and spiral binding with plastic covers) shall be submitted along with one set of reproducible of the graphs, tables, etc.

1.10.2 Data to be furnished

The report (in soft as well as hard copy) shall also include but not be limited to the following: -

a) A plot plan in A1/A0 sheet showing the locations and reduced levels of all field tests properly drawn to scale and dimensioned with reference to the established grid lines.

## General Conditions of Contract

The General Conditions of Contract are as under.

### 1.0 Security Deposit

Security deposit at the rate of 5% of the amount of each running bill shall be retained and the same shall be released after six months of the successful completion of the work at site. However no interest shall be payable to the Agency for the amount of security deposit for the period retained by HSCC.

### 1.1 Delay and extension

If the work is delayed by force majeure or any other cause in the absolute discretion of Employer is beyond the Agency's control, they shall immediately upon the happening of such event contributing to delays give notice thereof in writing to Employer but shall nevertheless use constantly their best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of HSCC to proceed with the work.

Request for extension of time shall be made by the Agency in writing within seven days of the happening of the event causing delay. The survey Agency shall also indicate with any such request, the period for which extension is required. In any such case HSCC may give a fair and reasonable extension of time for completion of individual items or group of items of work for which separate period of completion is specified in the contract as a whole, but it shall be the sole discretion of the Employer to grant or refuse such extension.

The decision of HSCC in regard to the extension will be communicated to the Agency in writing within a reasonable time but no compensation or any extra amount shall be paid for such extension granted by HSCC.

### 1.2 Compensation payable for delay in completion and risk prejudice clause

The Agency shall be liable to pay compensation to HSCC in case of delay in fulfilling obligation under this agreement for causes solely attributable to the survey Agency at 1% (One percent) of contract amount per week of delay subject to maximum of 5% (five percent only) of the total contract price towards their contract.

### 1.3 Risk Prejudice Clause

In case progress of any part of Agency's work is found to be unsatisfactory by HSCC at any time during the execution vis-a-vis, the terms of contract, HSCC shall give the Agency a fortnight's notice in writing asking for their plans for remedying the situation and to complete the job within the time mutually agreed, subject however to the conditions that the entire work falling within their scope of work shall be completed within the stipulated time. On the failure to remedy the situation as per agreed time with HSCC, HSCC shall have the right to withhold that portion of the work and get the same done at the risk and cost of the Agency after giving one weeks notice.

### 1.4 Arbitration

If at any time any doubt, question, dispute or difference whatsoever, shall arise between the Agency and HSCC upon or relating to or in connection with this contract, either of the parties may give the other notice in writing of the existence of such doubt, question, dispute or difference and the same shall be referred to the Chairman - cum - Managing Director, HSCC or his nominee as Sole Arbitrator. The decision of the sole arbitrator thereon shall be final, conclusive and binding upon the parties to dispute. The party invoking arbitration shall specify the dispute or disputes to be referred to the arbitration under the clause together with the amount or amounts claimed in respect of each of dispute.

### 1.5 Jurisdiction of Court

All disputes arising out of the contract shall have the jurisdiction of courts of the Union Territory of Delhi only.

### 1.6 Termination of Contract

HSCC reserves the right to terminate, or postpone the work on account of unfulfillment of contractual obligation(s) or any sufficient cause, HSCC being sole judge of the same. The Agency shall be paid for the useful work done upto the date of termination. HSCC shall determine the credit to be given to the detailer for the value of the work executed by the Agency. The Agency shall give HSCC all the data, compiled report, drawings etc. prepared by them till the date of termination before the final dues are paid to the Agency. Even after the termination of agreement, the Agency shall continue to cooperate with HSCC to such a reasonable extent as may be necessary to clarify or explain any reports or recommendations in documents or detailing made by them.

### 1.7 Breach of Trust

Unless otherwise directed by HSCC specifically, the Agency shall not contact directly or indirectly the client or any other authorities connected with the project. Non compliance of this clause shall be treated as breach of trust resulting in the termination of contract between HSCC and the Agency for with without any prior notice to him. In such event, no job will be entrusted to him in future by HSCC.

#### 1.8 Discussions with HSCC and Approvals

The Agency shall make themselves available at reasonable notice to be present for discussions with HSCC. The Agency shall also provide assistance, advice and information to HSCC as may be required from time to time for discussions with other agencies or HSCC officials connected with the work.

The Agency shall get approved the work done by him at every stage throughout the period from HSCC. However, such approval by HSCC shall not be deemed to absolve the Agency of the total responsibility of the correctness and soundness of the work and other obligations under this contract.

#### 1.9 Guarantee and liability of the Agency

The Agency shall be liable for all consequence of errors and omissions arising from errors solely attributable to Agency or on the part of their employees to the extent and with the limitation specified by HSCC.

#### 2.0 Periodical Progress Report

The Agency shall prepare and submit periodical progress reports and status of works being performed by them. Such submissions of reports and review and approvals, if any, thereof by HSCC shall not be deemed to absolve the responsibilities of the Detailer for timely completion of the assignment.

#### 2.1 Unit Rates

The Lump sum / Unit rates quoted shall remain firm throughout the validity of the contract. The rate shall include cost of materials, labor, tools and equipments, transport charges, taxes, royalties, octroi, service tax etc. payable on all transactions for the due performance of work under this contract. The rates shall be given in the schedule, as specified herein before. No escalation shall be paid on whatever account it may be.

#### 2.2 Variation in scope of work and schedule of quantity

The scope of work & schedule of quantities may vary to any extent. The rates quoted by the Agency shall remain firm for the complete job as directed by the Engineer.

#### 2.3 Mobilization advance

No Mobilization advance shall be paid.

#### 2.4 Income tax

Income tax shall be deducted from Agency's bill as per rules.

#### 2.4 Only computerized output

The Agency shall prepare a CD of the complete work assigned to them including drawings, report work, data, and other documents & the same shall be submitted to HSCC after completion of job. All drawings shall be on AUTOCAD and in A1 & A4 sizes only.

#### 2.5 Water for construction purposes

The Agency shall make his/ their own arrangements for unfiltered water required for the work and nothing will be paid for the same.

#### 2.6 Power

The Agency shall make his own arrangements for obtaining electrical connections if required and make necessary payments directly to the departments concerned.

**COMPLETION TIME SCHEDULE AND MODE OF PAYMENT**

**Completion Time**

Total time period for completion of job will be as per following from the date of issue of letter of award. The work is to be done in phases in order of priority as given below:-

**Table-1**

S.N.	Particulars	Completion Time	Submission of Draft Report	Submission of Final Report
1.	Topographical plan with Contours and all reports, datas, etc as per Scope of Work	2 weeks from date of award of work	3 weeks from date of award of work	01 week from the date of receipt of comments on Draft report from HSCC

**MODE OF PAYMENT**

**Table-2**

S.No.	Stage of Work	Percentage of Total fees payable
1.	On submission of all drawings and technical report including photographs, basic calculation sheets, etc. complete in all respects, in hard copy as well as soft copy.	100

**Price Bid for Topographical Survey Work for KMC, Kolkata**

S.No.	Description of Item	Unit	Qty.	Rates	Amount(Rs.)
<b>1</b>	<b>Topographical Survey, Collection of field and report Submission:</b>				
<b>a.</b>	Site Survey and Collection of Field Data as per defined scope of work of the area ear marked in enclosed layout drawing .	Square mt.	4000		
<b>b.</b>	Construction of Bench Mark and providing fencing around them as per drg supplied.	No.	2		
		Total			
<p><b>Note:</b> All works described in the scope of work shall be assumed to be included in the price quoted for site survey work and nothing extra shall be payable on any account..</p>					