

Tender

For

Preparation of Structural Design, Drawings &
Bill Of Quantities

for the
work of

“Construction of Doctor’s hostel”

at

LGB regional Institute of Mental Health at Tejpur
ASSAM -784001

Last Date of Submission – 15-04- 2009

HSCC (India) Ltd.

E-6 (A), Sector – 1,

Noida – 201 301

Tel No. 0120-2542436-40

Fax No. 0120-2542447

Web Site : www.hsccltd.co.in



CONTENTS

Part-A

S. No.	DESCRIPTION	Page No.
1.	Description of work & Instructions	2-4
3.	Instructions & Scope of Work	5-8
4.	General Conditions of Contract (GCC)	9-14
5.	Annexure 1	15

Part- B - Price Bid i.e Bill Of Quantites

Description of work and Instructions

Applications are hereby invited by HSCC from pre qualified Professional individual Consultants/ Agencies hereafter termed as Consultant. The Consultant(s) shall carry out the Structural design, drawing & Preparation of Bill Of Quantities, Cost estimates & rate analysis for LGB regional Institute of Mental Health at Tejpur, Assam as per enclosed Scope of work and conditions etc.

Type of Works : For Structural Design & Drawings

- 1) Block - I : One block of Jr. Resident hostel having G+5 height of building having ground floor area 595 sq.m and total covered area of 3233 sqm up
- 2.) Block –II : One block of Sr. Resident hostel having G+6 height of building & having ground floor area 540 sq.m and total covered area of 3180 sqm
- 2.) Block –III : One block of Cafeteria & Club having G+1 height of building & having ground floor area 720 sq.m and total covered area of 1275 sqm

Cumulative details of areas are as below

Area Statement (App.)

Area Statement of Doctor's Hostel (Total Area)		
S.No.	Description	Area
1	Jr Resident Hostel	3233.00 (G+5)
2	Sr Resident Hostel	3180.00 (G+6)
3	Cafeteria & Club	1275.00(G+1)
	Total	7688.00
Area Statement of Doctor's Hostel (G F area)		
S. No.	Description	Area
1	Jr Resident Hostel	595.00
2	Sr Resident Hostel	540.00
3	Cafeteria & Club	720.00
	Total	1855.00

For Preparation of Bill Of Quantities & Detailed Cost Estimates

In addition to above area of Doctor's hostel, the following app. area of housing shall be taken for Prep. of BOQ & Cost estimates

S.No.	Housing type	Ground floor area (Sq. m)	Total area (Sq. M)
1	II	124	372
2	IV	207	620
3	V	340	1018
4	Director Bung law	217	324
	Total	888.00	2334.00

Instruction to Applicants :

1. Applications are invited from pre qualified Consultants for preparation of structural design, drawings & Preparation of BOQ for LGB regional Institute of Mental Health at Tejpur, Assam.
3. Decision of the HSCC, in this regard shall be final. HSCC is not bound to assign any reason thereof.
6. The rates of consultants once prepared, shall be firm & valid for a period of 12 months. HSCC may extend this period with the mutual consent.
7. Application containing false and / or incomplete information are liable to be rejected.
8. HSCC reserves the right to enter into parallel rate contract(s) with one or more consultant(s) for these services.
9. Tender document can be obtained from HSCC (India) Ltd., Noida by depositing Rs. 2000/- (Rupees two thousand Only) non-refundable in the form of Demand Draft/ Pay order issued from any Nationalized Banks/Scheduled Banks in favour of HSCC (India) Ltd., payable at Noida or document can be down loaded from HSCC website www.hsccltd.co.in. If the document is down loaded from website then the application shall be accompanied by requisite value of Demand Draft/Pay order described as above.
10. Earnest Money Deposit (EMD) is Rs. 10000/- (Rupees ten Thousand Only) in the form of Demand Draft / Pay order issued from any Nationalised Banks/Scheduled Banks in favour of HSCC (India) Ltd. payable at Noida.
11. The EMD of Selected consultants shall be retained with HSCC for the validity period. No interest whatsoever shall be payable to consultant on EMD. The EMD of unsuccessful applicants shall be refunded within one month of finalization of tender.
12. Consultant quoting for the above work shall have in-house professionals.
13. All related drawings shall be provided by HSCC for preparation of structural designs.
14. Any clarifications regarding structural designs & drawings detailing etc. at any point of time, required by the site shall have to be made available within reasonable time (at the discretion of HSCC) after the query asked by HSCC.

15. Any delay due to non-response on the said works shall have to be compensated at consultant's risk and cost.
16. Prospective bidders are advised to regularly scan through HSCC website as corrigendum/ amendments etc. if any, will be notified on the company's website and separate advertisement will not be made for this.
17. A contact person shall be made available / assigned to respond for any query. Detail of contact person to be given as under :

Name of person _____

Designation _____

Address _____

Contact No. Mobile No. _____ Tele No. _____

Fax No. _____

Email address _____

INSTRUCTION FOR SUBMISSION OF APPLICATION :

ENVELOPE - 1

Shall Contain :

- Proof of purchase of document i.e. copy of receipt of Rs. 2000/- (Rupees Two thousand Only)
- Tender Document duly stamped & signed. Shall contain all Annexure duly filled in, signed and stamped.
- Earnest Money Deposit of Rs. 10,000/- (Rupees ten Thousand Only) through Demand Draft/Pay order.

ENVELOPE - 2

Shall contain only Price bid i.e priced bill of Quantities duly signed, stamped and sealed in envelop no 2.

ENVELOPE - 3

Shall contain sealed Envelopes 1 and 2 and sealed. This envelop shall be superscripted with the Name of the work i.e **Tender for design, Drawing & BOQ of LGB Institute of Mental Health, Tejpur, Assam.**

This envelope should be delivered preferably by hand or by registered post / speed post / courier on or before the date and time of submission of offer and should be addressed to **Sh. R.S.Raina, General Manager, HSCC (India) Ltd., E - 6 (A), Sector – I, Noida – 201 301, Uttar Pradesh. Phone No. 0120-2519979, Fax No. 0120-2542447.**

Note: Rate / Price shall not be given any where in envelop no.1 otherwise offer shall be rejected.

The last date of submission of Application is 15th April - 2009 and time 3.00 P.M.

The envelop no. 1 shall be opened first on 15-04-09 at 3.30 PM in the presence of the representatives of the applicants, at the following address.

The Sh. R.S.Raina, General Manager, HSCC (India) Ltd., E-6 (A), Sector-1, Noida, Uttar Pradesh - 201301.

Price bid of only those bidders shall be opened who qualify on opening of envelop no. 1, as per tender conditions. Price bid shall be opened on the same day i.e on 15-04-09.

Disqualification :

Offers not complete in all respects and/or received without the cost of documents, earnest money, and conditional or not in accordance with the terms and conditions and received after the last date and time 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 Applications without assigning any reason thereof and also take no responsibility for delay, loss or non-receipt of offer sent by post either way.

SCOPE OF WORK

1. General Scope of Work

1.1. Tender stage & Working Stage Drawings and Designs calculations for Civil/Structural Elements (for hospitals, housing, laboratories and institution project.)

The Consultant shall carry out Structural design / drawings work based on the Architectural drawings prepared by HSCC.

Consultant shall take into account HSCC architectural inputs (including general arrangement plan, sections, elevations and levels, details etc.) and their complete correlation with his drawings for concurrence & consistence.

1.2 Drafting aspects:

All drawings are to be made as per CAD standards adopted by HSCC based on the following:

- a) Directory structure
- b) File naming
- c) Layer naming
- d) Colour
- e) Pen thickness
- f) Text style & size

1.3 Scope of work for Civil/Structural design drawing at Working stage

Structural design & drawings shall cover the following work.

- a) Thorough study of the architectural drawings & input to the architectural drawings considering the requirements of the structural system.
- b) Approved Architectural drawings from Architecture Deptt., HSCC, shall be taken up for starting the Structural work. A copy of the same shall be submitted with the final Structural drawings.
- c) Structure Design Basis Report viz. the assumptions to be made in Structural Analysis and Design, shall be got approved from HSCC, before start of the work.

- d) Structural System shall be worked out in close co-ordination with and Architecture Deptt., HSCC; and the same shall be got approved before start of Space Frame Analysis.
- e) Similar coordination shall be made with other disciplines (Electrical, PHE), by way of study of their drawings critically & recording the constraints/ special requirements of the structural elements sizes/ cutouts/ inserts/sunken areas etc.
- f) Conclusion on detailed framing plans, structural system for foundations & superstructure. The structural system shall be worked out so as to achieve a economical and safe design keeping in view the serviceability requirements. Total responsibility in regard to safe and economical structure shall be borne by the Consultant.
- g) Loads- Complete description of Basic loads, member loads, Earthquake and wind loads including load combinations. This shall also include any special loads like equipment loads, dynamic loads etc. For water containing structures, hydraulic pressures to be considered appropriately.
- h) STAAD analysis modeling the building as appropriate space frame(s) - The structural elements shall be accordingly sized to obtain the optimal designs based on the criteria as decided & approved by HSCC. Appropriate checks for deflections of structure as well as the individual members so as to restrict the same within permissible codal limits. Only Space Frames, modeled with Dynamic Input & Analysis, will be considered.
- i) Complete structural designs of all elements of sub & super structure; this shall include the designs of beams, columns, slabs, footings/rafts so that the design information can be readily converted in to the detailed execution drawings.
- j) Detailed execution drawings as well as any revisions their in arising out of site constraints or any other requirements like changes in the other discipline drawings. However, major changes shall not be acceptable.
- k) All responsibilities concerning with the stability of structure, Structural drawings, compatibility with Architectural drawings, etc. lies with consultant Organization. A Structural Stability Certificate, in line with HSCC's requirements/project requirement shall also be furnished by the consultant.
- l) Final approved drawings, in principle, from D&E, HSCC shall be signed by Structural Engineer of Consultant Organization before forwarding the same to D&E, HSCC.
Relevant codes (latest), standards & the prevailing good engineering practices shall be followed in carrying out the above work. Details/References (of same) shall be furnished so as to facilitate the checking of design calculations etc.

All drawings of Civil / Structural works shall be vetted by IIT / Govt. Engineering College / Institutes. The consultant shall depute his engineer from time to time, as required, for discussions/ coordination with IIT/ Govt. Engineering College/ Institute professors, incorporate their comments appropriately to their satisfaction & ensure (to produce) a design worthy of approvals from vetting Institutes. Total responsibility, in this regard, shall be borne by the Consultant.

The Consultant along with concerned designer shall regularly attend the meetings on the date specified by HSCC, till the completion of the design job, without any extra charges.

1.4 Sets for submission of drawings during Working Stage:

Design Calculation : 2 sets + soft copy
Drawings : 2 check prints + soft copy each time
Final drawings : 2 sets + soft copy

2. Scope of Work for Detailed BOQ & Cost Estimate

2.1 Preparation and Submission of BOQ

- a) The consultant(s) shall prepare BOQ for Civil/Structural, PHE, Fire Fighting, BMS etc.
- b) BOQ shall be supplemented with detailed take off sheet, wherever assumption are made, same shall be clearly spelt along with their basis.
- c) For all items actual executed quantities deviating more than 15% shall be expandable by the consultant in a written transmittal form assigning clear & unambiguous reasons thereof & true errors, if any, in computing BOQ shall be identified. The Consultant(s) shall be liable for error in BOQ.
- d) The consultant(s) shall co-ordinate with HSCC respective disciplines and follow HSCC format for preparation of BOQ.

2.2 Preparation and Submission of cost estimates

- a) The consultant shall prepare and submit detailed cost estimate based on state PWD schedule / DSR-2007 / SR for scheduled items and updated cost Index. For non-schedule items estimate shall be prepared based on market rates.
- b) Rate analysis shall be submitted separately based on current market rates and labour wages for materials and workmanship for all items.
- c) The consultant shall also submit supporting documents for rate analysis.

2.3 Preparation and Submission of Take off sheets.

The consultant shall prepare item-wise detailed take-off sheets for calculation of BOQ; the same shall be submitted along with BOQ item.

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Delay and Extension:

If the work is delayed by force majeure or any other cause which is beyond the consultant control, he shall, immediately upon the happening of such event contributing to delays; inform HSCC in writing 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 consultant in writing within 7 days of the happening of the event causing delay. The consultant 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 of groups and items of work for which separate period of completion are 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, with regard to the extension, shall be communicated to the agency in writing within a reasonable time but no compensation or any extra amount shall be paid for such extensions granted by HSCC.

RISK PREJUDICE CLAUSES

2. Arbitration:

If at any time any doubt, question dispute or difference what so ever, shall arise between the Consultant(s) and HSCC upon or in 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 in accordance with the latest Indian Arbitration Act, later amendments if any. The decision of the sole arbitrator there on 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.

During the Arbitration, consultant shall continue to perform his obligations, unless specified by HSCC to stop the performance of obligations.

3. Jurisdiction of court:

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

4. Termination of contract:

HSCC reserves the right to terminate or postpone the work for good and sufficient cause and shall give 30 days prior notice in writing to the agency (HSCC being sole judge for the same) The Consultant shall be paid for the useful work done up to the date of termination. HSCC shall determine the credit to be given to the consultant for the value of the work executed by the consultant. The Consultant shall give HSCC all the design calculations, drawings including all relevant documents 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 of recommendations in documents or detailing made by them.

5 Breach of Trust

Unless otherwise directed by HSCC specifically, the Consultant 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 Consultant for with without any prior notice to him. In such event, no job will be entrusted to him in future by HSCC.

6 Discussions with HSCC and Approvals

The Consultant shall make themselves available at reasonable notice to be present for discussions with HSCC. The Consultant 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 without any extra claim.

MEETINGS:-The consultant shall regularly attend the HSCC office and/or any other place mentioned in the notice for meetings on the date specified by HSCC till the completion of the design job in which the progress made in the works will be discussed and clarifications required if any will be given. All costs incidental to such interaction for meetings shall be to the consultants account and no claim shall be entertained by HSCC on this account.

APPROVAL OF WORK:-The Consultant shall get approvals of the work done by him at every stage throughout the period from HSCC. However, such approvals by HSCC shall not be deemed to absolve the Consultant of the total responsibility of the correctness and soundness of the work and other obligations under this contract.

7. **Guarantee And Liability Of The Agency**

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

ASSOCIATED NECESSARY WORK:-Any other items of work not mentioned specifically in the scope of work but required/felt necessary for the completion of the project as a whole in all respects shall be deemed to be included in the scope as well as in the fee quoted by Consultant and no extra claim shall be admissible on this account.

8. **Ownership Of Documents & Copy Rights:**

The copyright of Calculation sheets, drawing etc. and other similar documents provided by the Consultant in connection with project/work shall remain vested in HSCC. All written material, originated and prepared for HSCC under the assigned agreement shall belong to HSCC.

The Consultant shall not publish without the written consent of employer or use for purpose other than those for this work, the articles, designs calculations and drawings

Changes or Alteration:-

Changes or alterations, as desired by HSCC due to site considerations or otherwise as required during the pendency of the contract, will be done by the consultant under their scope of work within the fee already quoted and agreed upon.

Correctness and Accuracy of data:-

The Consultant shall be fully responsible for the correctness and accuracy of the data. If any inadequacy is observed in the work performed by them, they shall at their own initiative and at no extra cost to HSCC take all steps necessary to remedy/rectify the said defects or inadequacies. The consultant shall incorporate all the modifications or changes as desired by HSCC.

9. **Indemnity :**

The Consultant shall fully stand guarantee and indemnify the HSCC for designing done by them as also performance and detailing etc. of the works

10. Code of Practice

The report for all works shall conform to local building bye laws and other state regulation as well as to relevant latest Indian Standard Specifications and/or Standard code of Practice. Where Indian Standards are not available, equivalent International Standards and/or generally accepted sound engineering practices shall be followed. Deviation from BIS recommendations and adoption of other code of practice will require prior approval of HSCC in writing All reports, computations etc. shall be submitted in English language and in metric/SI units.

11. Subletting

Subletting of the works is not permitted.

12. Payment Terms :

For Preparation of BOQ, Cost estimates & rate analysis:

The Consultancy fees (as per order value) for above work shall be payable as per milestones listed below:

S.No.	Stage of Work	% age of quoted price as above payable at respective stage of work (Only for completed area).
1	Submission of Draft BOQ with Sub heads for various Item of Work	20%
2	Submission of detailed BOQ along with detail measurements, take off sheets & quantities and its approval from HSCC	25%
3	Submission of market rate analyses for schedule & Non schedule items with supporting documents, detailed cost estimates & Tech. specification for non DSR Items.	20%
4.	Acceptance of BOQ, Cost Estimates & Market rates by HSCC	15%
5	21 days after release of NIT/ Prebid meeting whichever is earlier.	20%
6	Total	100%

For Structural Design & drawings

S.No.	Stage of Work	% age of quoted price as above payable at respective stage of work. (Building wise area to be taken)
1	Study of Arch. Drawings, Submission of Draft design calculations and its approval from HSCC.	25%
2	Submission of detailed Structural design calculations and drawings and its approval by HSCC.	45%
3	On vetting of the above by IIT/ Some Govt. Agency / By some Govt. Institute of repute.	20%
5	One month after award of work to the contractor.	10%
6	Total	100%

The consultant shall submit running bills stage wise and one final bill.
Bill format shall be got approved by consultant from HSCC.

13. Security deposit:

A security deposit of 6 % of the running bills subject to a maximum of 5% of total order value will be retained. This shall be payable after six months from the date of successful completion of work.

14. Time Schedule :

The agency shall submit first lot of BOQ/Market rates/ Cost estimates with in 15 days or as per the time schedule mentioned in the award letter. Further all detailed BOQ, Cost estimates along with market rate analysis shall be completed in next two weeks. Total Completion period is One month for structural design, St. drawings, BOQ & Cost estimates from the date of issue of award letter. Additional time period of two weeks shall be given for vetting of structural design and drawings.

15. LD for delay in completion:

- LD shall be levied upon the consultant in case of delay in fulfilling the obligations under this agreement for causes solely attributable to the consultant at 1% (one percent only) of the contract fee per week of delay subject to a maximum of 10% of the total contract fee.
- For computing the LD amount, the period of delay on the part of the consultant shall be worked out by HSCC going strictly by the time schedule mentioned in this order. The agency shall be liable to pay this compensation to HSCC.
- However, no LD shall be levied in case the delay is on account of force majeure or of release of design input to the consultant from HSCC side. In such cases the time schedule shall be reworked & a suitable extension of in time granted work completion. No extra price shall be payable by HSCC to the consultant for the delayed period.

Note:

The Consultant will give under taking that all designs, BOQ will be prepared and furnished to suit the particular local conditions of the site in the most economical manner and at any stage during the progress of execution of the work, if any defect is noticed in the design and drawing, the Consultant shall provide free of cost to HSCC fresh design / drawings and other documents with in a period of 7 days from the date of notice issued by HSCC in this regard .The Consultant shall also indemnify the HSCC against any damage / loss / delay suffered by the HSCC due to such defective designs, drawings and other documents supplied by the Consultant subject to a maximum of the 10% of the consultancy fee.

Annexure-1

UNDERTAKING

I / We have read and understood the instructions and the terms and conditions contained In the Tender document. I/We do hereby declare that the information furnished in application and in the supplementary formats is correct of my/our knowledge and belief.

Signature of Applicant

Name(in Block letter)

Complete Postal Address:
& Contact Number

Place:

Date:

Seal of Office

I/We have read the various items and conditions and the same are acceptable to me/us

Date:

Place:

Signature of the Consultant

Full Address:

Office Seal

PRICE BID – PART B

BILL OF QUANTITY						
Price Bid for Structural design, detailing, preparation of structural drawings and BOQ, Cost Estimate for LGB Regional Institute of Mental Health, at Tejpur, Assam						
BILL OF QUANTITY						
S.No.	Description of Item	Unit	Qty.	Rates in figures	Rate in words in Rs.	Amount (in Rs.)
Sub Head- I						
1	Structural design, detailing and Preparation of structural drawings complete as per description & scope of work.	Per Sq.m of Covered area	7700			
2	Site visit at Tejpur for any clarification, detailing, site conditions as per requirement and instruction of HSCC	Per Visit	02			
3	Vetting of the Design & Drawings of the above work done by structural Consultant.	L/S	One time			
Sub Head -II						
4	Preparation of Bill of Quantities, Detailed cost estimates & rate analysis complete as per description & scope of work.	Per Sq.m of Covered area	10100			
Total of subhead I & Subhead II						