

**Directorate General of Health Services
Ministry of Health & Family Welfare
Government of India**

Dated – 27.11.2008

Through

HSCC (India) Ltd., plot no. – E-6(A), Sector-1, Noida-201301 (U.P.)

Short term Tender Notice

HSCC (I) Ltd. on behalf of Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India intends to invites tender from eligible Applicant / firms for following works:

Name of work: Misc. Civil & Electrical repair works of CGHS Building at RHTC Hostel complex near Palam flyover at Dwarka, New Delhi.

Sl. No	Description of sub head of work	Estimated cost in lacs	Earnest money deposit in Rs.	Cost of tender document in Rs.	Completion Period
1	Misc. Civil & Electrical repair works	7.0	17500.00	Rs. 1000.00	Two months

Eligibility Criteria :

(1) Misc. Civil & Electrical repair works, Applicant/firms must fulfill the following. (a) Average annual turn over during last three financial years shall be 30 % of the estimated cost (as per audited balance sheets or Annual Income tax returns) (b) Successful completion of at least one similar nature of works on a single contract value not less than 80% of the estimated cost or two similar nature of works value not less than 50% of the estimated cost or three similar nature of works value not less than 40% of the estimated cost during last 7 years ending last day of the month previous to the one in which applications are invited (Completion certificates to be submitted).

(2) Similar works means renovation / repair type of misc. Civil & Electrical works or painting works.

(3) Applicant/ firms must submit PAN card or WCT / VAT registration.

(4) The Applicant/ firms, who have been working with HSCC, must submit a current performance certificate along with past Completion certificates.

(5) Interested agencies may obtain the tender documents on written request on any working day mentioning the work from 28st Nov' 2008 to 4th Dec'2008 till 14:00 hrs. against a non-refundable fee as mentioned above towards cost of tender documents payable through cash/Demand Draft in favour of HSCC (India) Ltd. payable at Noida from any Nationalized/scheduled bank or tender document may also be downloaded from our website www.hsccltd.Co.in and submitted along with the demand draft of Rs.1000/- in favour of HSCC (India) Ltd, Noida. **Last date of submission of complete tender document in sealed envelope is 05.12.2008 up to 15:00 hrs. at above address. .**

Manager (Civil)

SECTION I : INSTRUCTIONS TO BIDDERS

A. General

1.0 Scope of work :

HSCC (India) Ltd. invites bids on behalf of Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India for the works of **Cleaning, white washing etc. including other misc. Civil & Electrical repair works of CGHS Building at RHTC Hostel complex near Palam flyover at Dwarka, New Delhi. Sub head – I: Misc. Civil & Electrical repair works**

1.1 The successful **bidder will be expected** to complete the works within 60 calendar **days** from the date of Award of work.

1.2. Minimum criteria :

(a) Average annual turn over during last three financial years shall be 30 % of the estimated cost (as per audited balance sheets or Annual Income tax returns in support of turn over.)

(b) Successful completion of at least **one** similar nature of works of internal and external signage on a single contract value not less than **80%** of the estimated cost or **two** similar nature of works value not less than **50%** of the estimated cost or **three** similar nature of works value not less than **40%** of the estimated cost during last 7 years ending last day of the month previous to the one in which applications are invited.

(c) Similar works means renovation / repair type of misc. Civil & Electrical works.

2.0 The Employer

Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India, New Delhi represented by their consultant M/s HSCC (India) Limited (HSCC), A Government of India Enterprise, having its Corporate office at plot No. 6(A), Block-E, Sector -1, Noida, Distt. Gautam Budh Nagar (UP) will enter into the agreement with the chosen contractor for & on behalf of Employer.

2.1 In these documents wherever the word tender/ tendered /tendering has been used, the same may be considered synonymous with bid/bidder/bidding.

3.0 Informations to be submitted:

3.1 All bidders shall include the following information and documents with their bids:

1. Power of attorney of the signatory of the bid to commit the bidder.
2. A Work plan clearly bringing out how the bidder proposes to carry out the work to achieve the time schedule.
3. Single Applicant/firms can quote for only one Sub Head of work.
4. Applicant/ firm must submit PAN card or WCT / VAT registration.
5. The firm should submit an affidavit duly notarized that they have not abandoned any work of Union Government/ State Governments/ PSU's etc. during the last 5 years. They should also submit an affidavit that they have not been blacklisted or expelled by Union Government/ State Governments/ PSU's etc. during the last 5 years.

3.2 Even though the Applicants meet the above criteria, they are subject to be disqualified, if they have:

- made misleading or false representation in the form, statement and attachments submitted;
- record of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures, etc. /or
- The performance of any agency already worked/ working with HSCC is not found satisfactory./or
- found to have been black listed in any of the works.

- 3.3** The applicants are advised to visit the site to get first hand information as regards its approach, accessibility, working conditions, site conditions, availability of labour and material etc. and other matters affecting cost and work. All costs incurred in connection with submission of the pre-qualification application shall be borne by the applicant irrespective of the outcome.
- 3.4** If any information furnished by the applicant is found incorrect at a later stage, applicant shall be liable to be debarred from tendering in HSCC. The department reserves the right to verify the particulars furnished by the applicant independently.
- 3.5** The competent authority to pre-qualify shall have the power to relax any condition/criterion for pre-qualification if it considers expedient to do so.
- 3.6** Even though the agency meets all the criteria, the Employer / Consultant reserves the right to accept or reject any applicant/disqualify any agency without assigning any reason whatsoever.
- 3.7** The Employer / Consultant reserves the right to :
- a. Reject or accept any application without assigning any reason or incurring any liability thereof
 - b. Cancel the pre-qualification process and reject all applications
 - c. Split the works into different packages if required
 - d. Amend the scope and value of any contract under this project, in such event the bids will only be called from those pre-qualified applicants who meet the requirements of the contract as amended.

4.0 Cost of bidding :

The bidder shall bear all costs associated with the preparation and submission of his bid, and the Employer will in no case be responsible or liable for those costs.

5.0 Site visit:

The bidder is advised to visit and examine the Site of works and its surroundings and obtain for himself on his own responsibility and at his own risk all information that may be necessary for preparing the bid and entering into a contract. The cost of visiting the Site shall be at the bidder's own expense.

B. Bidding Documents

6.0 Content of bidding documents:

The set of bidding documents comprises the documents listed below:

Conditions of contract, Technical specifications & Bill of Quantities, amendments if any

7.0 Clarification of bidding documents :

A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or by cable (hereinafter, "cable" includes facsimile) at the Engineer's address indicated in the Invitation to Bid. The Engineer will respond to any request for clarification which he received earlier than 7 days prior to the submission of bid. Copies of the Engineer's response will be forwarded to all purchasers of the bidding documents, including a description of the enquiry but without identifying its source.

8.0 Amendment of bidding Documents :

- 8.1** Before the deadline for submission of bids, the Engineer may modify the bidding documents by issuing addenda.
- 8.2** Any addendum thus issued shall be part of the bidding documents and shall be communicated in writing or by cable to all purchasers of the bidding documents.

- 8.3 To give prospective bidders reasonable time to take an addendum into account in preparing their bids, the Engineer shall extend as necessary, the deadline for submission of bids in accordance with Sub-Clause 16.2.

C. Preparation of Bids

9.0 Language of bid :

All documents relating to the bid shall be in English Language only.

10.0 Documents comprising the bid :

The bid submitted by the bidder shall comprise the following :

- (a) Bid Security
- (b) Conditions of Contract
- (c) Specifications
- (d) Bill of Quantities
- (e) Documents mentioned in 6.0 above.

and any other documents required to be completed and submitted by bidders in accordance with these instructions.

11.0 Bid prices:

- 11.1 The bidder shall fill the rates against each item of BOQ both in words and figures.
- 11.2.1 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause shall be included in the rates, prices, and total amount of bid submitted by the bidder. The evaluation and comparison of bids by the Employer shall be made accordingly.
- 11.3 The rates and prices quoted by the bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment on any account. No escalation is allowed.

12.0 Currencies of bid and payment :

The rate to be quoted by the bidder shall be in Indian Rupees.

13.0 Bid validity :

- 13.1 Bids shall remain valid for a period of 90 days after the deadline for bid submission specified in Clause 16.
- 13.2 In exceptional circumstances, the bidders may be requested to extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for the period of the extension, and in compliance with Clause 14 in all respects.

14.0 Bid security :

- 14.1 The bidder shall furnish, as part of his bid, a security amount of Rs. 17500/- (Rupees seventeen thousand five hundred only)
- 14.2 The bid security shall be in the form of a Demand Draft from a Nationalized /Scheduled bank in favour of HSCC (India) Ltd. payable at Noida.
- 14.3 Any bid not accompanied by an acceptable bid security shall be rejected.
- 14.4 The bid security of unsuccessful bidders will be returned within 28 days of the end of the bid

validity period specified in Sub-Clause 13.1.

- 14.5 The bid security of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required performance security.
- 14.6 The bid security will be forfeited:
- (a) if the bidder withdraws his bid during the period of bid validity;
 - (b) if the bidder does not accept the correction of his bid price, pursuant to Clause 23; or
 - (c) in the case of a successful bidder, if he fails within the specified time limit to :
 - (i) sign the Agreement ; or
 - (ii) furnish the required performance security.
- 14.7 No interest will be payable on the bid security amount cited above.

15.0 Sealing, marking and submission of bid :

- 15.1 The bid shall be submitted in accordance with the procedure detailed herein. Documents shall be enclosed in separate envelopes of appropriate size each of which shall be sealed.
- (i) Envelope No. 1 shall contain the bid security as indicated in clause 14 of these instructions to bidders, the covering letter and original bid document consist of Conditions of Contract, specifications (Vol I) duly signed and stamped and the other bid documents as indicated at Clause 3.1.
 - (iii) Envelope No. 2 shall contain only the bill of quantities (Vol II)and rates/prices duly filled in and signed and stamped without any conditions whatsoever. Bids containing any conditions in Envelope no. 2 are liable to be summarily rejected. Any variation between the rates mentioned in figures and words the rates in words shall prevail.

The contractor must fill up the prices both in words and figures.

Please note that the price should not be indicated in any of the documents enclosed in envelope 1

All bidders are required to submit unconditional bids. Conditional bids if submitted may be rejected and no correspondence in this regard shall be entertained.

- 15.2 The bidder shall seal the bid.
- 15.3 The two envelopes shall be sealed and enclosed in an envelope and addressed to the **Chief General Manager PG-II, HSCC (India) Ltd., plot no. – E-6(A), Sector-1, Noida-201301 (U.P.)**
- 15.4 All the above envelope shall bear the following identification.
- Name of work: - Cleaning white washing etc. including other misc. Civil & Electrical repair works of CGHS Building at RHTC Hostel complex near Palam flyover at Dwarka, New Delhi. Sub head – I: Misc. Civil & Electrical repair works**
- 15.5 All the envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened, if required.
- 15.6 All recipients for the purpose of submitting a bid, shall treat the contents of the documents as private and confidential.

16.0 Deadline for submission of bids :

- 16.1 Bids must be received at the address specified above not later than designated time and date,
- 16.2 The Engineer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 8, in which case all rights and obligations of the Employer and the

bidders previously subject to the original deadline will then be subject to the new deadline.

17.0 Late bids:

Any bid received by the Engineer after the deadline prescribed in Clause 16.0 will be returned unopened to the bidder.

18.0 Modification and withdrawal of bids:

18.1 The bidder may modify or withdraw his bid by giving notice in writing before the deadline prescribed in Clause 16.

18.2 The bidder's modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 15, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL", as appropriate.

18.3 No bid may be modified after the deadline for submission of bids.

18.4 Withdrawal of bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in the Form of Bid may result in the forfeiture of the bid security pursuant to Clause 14.

D. Tender Opening and Evaluation

19.0 Bid opening :

19.1 Bids shall be opened in the office of **HSCC (India) Ltd., plot no. – E-6(A), Sector-1, Noida-201301 (U.P.) on intimated dates** in presence of the bidders representatives who may wish to be present.

Envelope No.1: Shall be opened first. If the bid Security is not found as prescribed the bid shall be summarily rejected. Bids of parties who do not accept the conditions laid down in the bid documents may be rejected.

Envelope No. 2 : Shall contain the sealed price bid. Whose bids is found to be generally in order and substantially responsive shall be opened either at the bid opening or at a subsequent date to be intimated in advance to such eligible bidders.

19.2 The Engineer will examine the bids to determine whether they are complete, whether the requisite bid securities have been furnished, whether the bids have been properly signed and whether the bids are generally in order.

19.3 Telegraphic/ fax offer will be treated as defective/ invalid and rejected. Only detailed complete bids received prior to the closing time and date will be taken as valid.

19.4 The bidders names, general technical details, the presence of the requisite bid security and such other details as the Engineer, at his discretion may consider appropriate will be announced at the bid opening.

19.5 Deleted.

19.6 The bid of any bidder who has not complied with any of the instructions contained herein may not be considered.

20.0 Process to be confidential:

20.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful bidder has been announced. Any effort by a bidder to influence the Engineer's processing of bids or award

decisions may result in the rejection of his bid.

21.1 Clarification of bids:

21.1 To assist in the examination, evaluation, and comparison of bids, the Engineer may, at his discretion, ask any bidder for clarification of his bid, including break down of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Engineer in the evaluation of the bids in accordance with Clause 23.

22.0 Examination of bids and determination of responsiveness:

22.1 Prior to the detailed evaluation of bids, the Engineer will determine whether each bid (a) meets the eligibility criteria; (b) has been properly signed; (c) is accompanied by the required securities; (d) is substantially responsive to the requirements of the bidding documents; and (e) provides any clarification and/or substantiation that the Engineer may require.

22.2 A substantially responsive bid is one which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the bidding documents, the Engineer's right or the bidder's obligations under the contract or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

22.3 If a bid is not substantially responsive, it will be rejected by the Engineer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

23.0 Correction of errors:

23.1 Bids determined to be substantially responsive will be checked by the Engineer for any arithmetic errors. Errors will be corrected by the Engineer as follows :

- (a) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (b) If the bidder does not accept the corrected amount of bid, his bid will be rejected, and the bid security may be forfeited in accordance with Sub-Clause 14. 6(b).

24.0 Currency for bid evaluation :

Bids shall be evaluated as quoted in Indian Rupees in accordance with Clause 12.

25.0 Evaluation and comparison of bids:

25.1 The Engineer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 22.

25.2 In evaluating the bids, the Engineer will determine for each bid the Evaluated Bid Price by Adjusting the Bid Price after making any correction for errors pursuant to Clause 23.

E. Award of Contract

26.0 Award Criteria:

26.1 Subject to Clause 27, the Engineer on behalf of the Employer intends to award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has offered the Lowest Evaluated Bid Price.

27.0 Employer's right to accept any bid and to reject any or all bids:

27.1 Notwithstanding Clause 26, the Engineer on behalf of the Employer reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids, at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for the Employer's action.

28.0 Notification of award:

28.1 Prior to expiration of the period of bid validity prescribed, the Engineer on behalf of the Employer will notify the successful bidder by cable confirmed by registered post /courier letter that his bid has been accepted. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") shall name the sum which the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

28.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provision of Clause 29.

28.3 Upon furnishing by the successful bidder of a performance security, the Engineer on behalf of the Employer will promptly notify the other bidders that their bids have been unsuccessful.

29.0 Performance Security:

29.1 Within 15 days of receipt of the notification of award from the Engineer on behalf of the Employer, the successful bidder shall furnish to the Employer a performance security in the form of a bank guarantee for an amount equivalent to 5% of the Contract Price.

29.2 Failure of the successful bidder to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the bid security.

Section 2. Conditions of Contract

A. General

1.0 Definitions:

1.1 Terms which are defined in the Contract Data are not defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

Acceptance is the date when the Contract came into existence upon receipt by the Contractor of the Letter of Acceptance issued by the Engineer on behalf of the Employer.

The Activity Schedule is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works.

The Completion Date is the date when the Engineer notifies that the works can be used by the Employer.

The Consultant is M/s. HSCC (I) Ltd. (HSCC).

The Contract is the contract between the Employer of the one part and the Contractor of the other.

The Contract Data defines the documents and other information which comprise the Contract.

The Contractor is a person or corporate body whose bid to carry out the Works has been accepted by the Employer.

The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer.

The Contract Price is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; months are calendar months.

A Defect is any part of the Works not completed in accordance with the Contract.

The Engineer is the person named in the Contract Data who is responsible for supervising the Contractor, administering the Contract, certifying payments due to the Contractor, issuing and valuing Variations to the Contract, awarding extensions of time etc.

Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

The Initial Contract Price is the Contract Price at the date of the Employer's written acceptance of the Contractor's Bid.

The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an Extension of time.

Plant is any integral part of the Works which is to have a mechanical, electrical, electronic or chemical function.

The Site is the area defined as such in the Contract Data.

The Start Date is given in the Contract Data. It is the date when the Contractor can commence work on the Contract.

It does not necessarily coincide with any of the Site Possession Dates.

A Subcontractor is person or corporate body who has a contract with the Contractor to carry out a part of the work in the Contract.

Temporary Works are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.

A Variation is an instruction given by the Engineer which varies the Works.

The Works are what the Contract requires the Contractor to construct, install, and hand over to the Employer.

2.0 Interpretation:

In interpreting these Conditions of Contract, singular also means plural, male also means female, and vice versa. Headings and cross-references between clauses have no significance. Words have their normal meaning under the language of the Contract unless specifically defined.

3.0 Language and law:

The language of the Contract and the law governing the Contract are stated in the Contract Data.

4.0 Engineer's decisions:

The Engineer is to decide contractual matters between the Employer and the Contractor fairly and impartially.

5.0 Delegation:

The Engineer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6.0 Communications:

Communications between parties which are referred to in the conditions are effective only when in writing.

7.0 Sub-Contracting : Deleted

8.0 Other Contractors :

Deleted.

9.0 Personnel :

Deleted

10.0 Removal of personnel

If the Engineer asks the Contractor to remove a person who is a member of his staff or his work force and states his reasons the Contractor is to ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

11.0 Contractor's risks :

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- 11.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

Excepted Risks are:

- a. (i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
(ii) Rebellion, revolution, insurrection, or military or usurped power, or civil war,
(iii) ionizing radiations, or contamination by radio - activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio - active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,
(iv) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speed,
- b. loss or damage due to the use or occupation by the Employer of any section or part of the Permanent Works, except as may be provided for in the Contract.
- c. loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible.

12.0 Insurance:

- 12.1 The following insurance cover is to be provided by the Contractor in the joint names of the Employer and the Contractor for the period from the Start Date to the end of the Defects Notice Period or of the last Defects Correction Period whichever is the later:

- (a) cover against damage to other people's property caused by the Contractor's acts or omissions;
(b) cover against death or injury caused by the Contractor's acts or omissions to
(i) anyone authorized to be on the Site ;
(ii) third parties who are not on the Site ;
(c) cover against damage to the Works and materials during construction.

- 12.2 Policies and certificates for insurance are to be produced by the Contractor to the Engineer for approval before the Start Date given in the Contract Data and subsequently as the Engineer may require.

- 12.3 If the Contractor does not produce any of the policies and certificates required, the Employer may effect the insurance for which the Contractor should have produced the policies and certificates and recover the premiums it has paid from payments due to the Contractor.

- 12.4 Alterations to the terms of an insurance may be made either with the approval of the Engineer or as a result of general changes imposed by the insurance company with which the insurance policy is effected.

- 12.5 Both parties are to comply with conditions of the insurance policies.

13.0 Indemnities :

- 13.1 The Contractor is liable for and indemnifies the Employer against losses, expenses and claims for loss or damage to physical property, personal injury, and death caused by his own acts or omissions.

- 13.2 The Contractor indemnifies the Employer against claims for damage caused by the movement of his Equipment or Temporary Works outside the Site.

14.0 Site Investigation report :

Deleted

15.0 Queries about the contract data :

The Engineer is to give instructions clarifying queries about the Contract Data.

16.0 Contractor to execute the works :

The Contractor is to supply Office furniture in accordance with the Specification and contract..

17.0 The works to be completed by the intended completion date :

The Contractor may begin the Works on the Start Date and is to carry out the Works in accordance with the program submitted by him, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

18.0 Approval of samples of all the BOQ items and materials to be taken from client before manufacturing. All material shall be of reputed and standard makes. However, all makes of material to be got approved and decided by Engineer before manufacturing

19.0 Safety :

The Contractor is responsible for the safety of all activities on the Site.

20.0 Discoveries :

Deleted.

21.0 Possession of the site :

The Employer is to give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data, the Employer is deemed to have delayed the start of the relevant activities.

22.0 Access to the site :

The Contractor is to allow the Engineer and any person authorized by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

23.0 Instructions :

The Contractor shall carry out all instructions of the Engineer.

24.0 Procedure for disputes :

If any dispute or difference of any kind what so ever shall arise between the Employer and the contractor or the Engineer and the contractor in connection with or arising out of the Contract, or

the execution of the works, whether during the progress of the works or after their completion and whether before or after the termination, abandonment or breach of the contract, it shall, in the first place, be referred to and settled by the Engineer who shall, within a period of ninety days after being requested by either party to do so, give written notice of his decision to the Employer and the Contractor. Subject to arbitration, as hereinafter provided, such decision in respect of every matter so referred shall be final and binding upon the Employer and the Contractor and shall forthwith be given effect to by the Employer and by the Contractor, who shall proceed with the execution of the works with due diligence whether he or the Employer requires arbitration or not. If the Engineer has given written notice of his decision to the Employer and the Contractor and no claim to arbitration has been communicated to him by either the Employer or the Contractor within a period of ninety days from receipt of such notice, the said decision shall remain final and binding upon the Employer and the Contractor. If the Engineer shall fail to give

notice of his decision, as aforesaid within a period of ninety days after being requested, or if either the Employer or the Contractor be dissatisfied with any such decision, then and in any such case either the Employer or the Contractor may within ninety days after receiving notice of such decision or within ninety days after the expiration of the first named period of ninety days as the case may be require that the matter or matters in dispute be referred to arbitration as hereinafter provided. All disputes or differences in respect of which the decision if any of the Engineer has not become final and binding as aforesaid, shall be finally settled under the Indian Arbitration and Conciliation Act, 1996 or any statutory modification or re - enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. Such arbitration shall be settled by Sole arbitrator who shall be appointed by Chairman cum Managing Director, HSCC. The arbitration shall take place in New Delhi unless both parties agree otherwise. Neither party shall be limited in the proceedings before the arbitrator to the evidence or arguments put before the Engineer for the purpose of obtaining his said decision. No decision given by the Engineer in accordance with the foregoing provisions shall disqualify him from being called as a witness and giving evidence before the arbitrator on any matter whatsoever relevant to the dispute or difference referred to the arbitrator as aforesaid. The reference to arbitration may proceed notwithstanding that the works shall not then be or be alleged to be complete provided always that the obligations of the Employer, the Engineer and the Contractor shall not be altered by reason of the arbitration being conducted during the progress of the works.

B. Time Control

25.0 Program :

- 25.1 Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for his approval a program showing the general methods, arrangements, order, and timing for all the activities in the Works.
- 25.2 The Contractor is to submit to the Engineer an updated program as required by the Engineer.
- 25.3 The Engineer's approval of the program does not alter the Contractor's obligations. The Contractor may revise the program and submit it to the Engineer again at any time. A revised program is to show the effect of Variations.

26.0 Extension of the intended completion date :

- 26.1 The Engineer is to extend the Intended Completion Date if an event not attributable to the contractor causing delay occurs or a Variation is issued which makes it impossible for completion to be achieved by the Intended Completion Date.
- 26.2 The Engineer is to decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking him to decide upon the effect of a event causing delay or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by his failure is not considered in assessing the new Intended Completion Date.

27.0 Acceleration :

Deleted

28.0 Delays ordered by the Engineer :

The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.

29.0 Management meetings :

- 29.1 The Engineer and/ the Contractor may be required the other to attend a management meeting. The business of a management meeting is to review the plans for remaining work and to deal

with matters raised in accordance with the early warning procedure.

C. Quality Control

30.0 Identifying defects :

The Engineer is to check the Contractor's work and to notify the Contractor of any Defects which he finds. Such checking does not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work which he considers may have a Defect.

31 & 32.0 Tests : Tests of all materials will be carried out as per BIS. In case it is not available in BIS the same shall be carried out as per decision given by engineer based on existing general practice which will be binding to the agency. The material which is not passing to BIS or any other test will be rejected or may be accepted with reduced rates as per decision taken by engineer.

33.0 Correction of defects :

33.1 The Engineer is to give notice to the Contractor of any Defects of which he is aware before the end of the Defects Notice Period, which begins at Completion.

33.2 Every time notice of a Defect is given, a Defects Correction Period for the notified defect begins. The Contractor is to correct the notified defect within the Defects Correction Period. The length of the Defects Correction Period is stated in the Contract Data.

33.3 The Contractor is to correct defects which he notices himself before the end of the Defects Notice Period.

33.4 The Engineer is to certify that all Defects have been corrected when all known Defects have been corrected. If the Engineer considers that correction of a Defect is not essential he can request the Contractor to submit a quotation for the corresponding reduction in the Contract Price or an earlier Intended Completion Date or both. If the Engineer accepts the quotation, the corresponding change in the Contract Data is a Variation.

34.0 Uncorrected defects after completion date :

34.1 After completion the Engineer may arrange for a third party to correct a Defect if the contractor has not corrected it within the Defects Correction Period.

34.2 The Engineer is to give the Contractor at least 28 days notice of his intention to use a third party to correct a Defect. If the Contractor does not correct the Defects himself within this notice period, the Engineer may have the Defect corrected by the third party. The cost of the correction will be deducted from the Contract Price.

D. Cost Control

35.0 Bill of quantities :

35.1 The Bill of Quantities is to contain items for the work to be done by the Contractor.

35.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.

36.0 Changes in the quantities :

36.1 Final work done shall exceed or decrease to any extent item wise as well as total work value wise.

36.2 If requested by the Engineer, the Contractor is to provide the Engineer with a detailed cost

breakdown of any rate in the Bill of Quantities.

37.0 Variations :

37.1 The Contractor has to carryout the work at the same rate, terms & Condition even if the final cost of work exceeds by more than 50 percent

37.2 The Extra items are to be executed only when if it required on writing by the engineer for whom the contractor has to submit the request in writing along with analysis of the rates of any such items and the rates will be worked out based on the CPWD norms/DAR. Incase the Item is not available in the DSR/DAR or in case of any dispute, the same will be derived from the existing market rates on actual basis. In case of disagreement on the rates Engineers decision will be final and binding. The Current market rates will be taken to derive the rates based on DAR norms.

38.0 Payments for variations:

If the contract does not contain any rates or prices applicable to the varied work, the rates and prices in the contract shall be used as basis for valuation so far as may be reasonable, failing which , after due consultation by the engineer with the contractor, suitable rates or prices shall be agreed upon between the engineer and the contractor. In the event of disagreement, the engineer shall fix such rates or prices as are, in his opinion, appropriate based on CPWD norms and shall notify the contractor accordingly.

39.0 Cash flow forecasts :

39.1 The contractor shall provide cash flow forecast at the start of work to the Engineer. When the program is updated, the Contractor is to provide the Engineer with an updated cash flow forecast.

40.0 Payment certificates :

40.1 The contractor shall submit to the Engineer monthly statements of the value of the work completed less the cumulative amount certified previously on a printed proforma (prepared at the cost of Contractor).

40.2 The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

40.3 The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

41.0 Payments :

The Employer is to pay the contractor the amount certified by the Engineer within 15 days of the submission of corrected monthly statement of work done. However, 75% of estimated amount as determined by Engineer will be made within 7 working days from the date of submission of the bill by the contractor.

To facilitate interim payments, the contractor shall submit a detailed price breakup of the items required to be executed for the project, for the approval of the Engineer. The payment shall be released as per the terms of the payment given in the tender document.

42.0 Taxes :

Taxes shall be deducted as applicable.

43.0 Cost of Labour :

The Contractor shall be deemed to have allowed in his Tender Price for the full cost of labour having due regard to the provision of all labour legislation of the Central and State Government which are in force on the date of the tender and which are applicable to labour engaged for the

Contract.

44.0 Retention Amount :

44.1 The Employer is to retain from each payment due to the contractor the proportion stated in the Contract Data until Completion of the whole of the Works.

44.2 On Completion of the whole of the Works, half the total amount retained is repaid to the Contractor and balance half when the Defects Notice Period has passed and the Engineer has certified that all Defects notified by him to the Contractor before the end of this period have been corrected. The second half of the retention may be paid against submission of Bank Guarantee approved by the Engineer from any nationalized bank.

45.0 Liquidated damages :

45.1 If the contractor fails to complete execution of works within the relevant time as specified in the Contract Data / Extended date, the contractor shall pay the employer the relevant sum as stated in the Contract Data as liquidated damages for every day or part of a day which shall elapse between the relevant time of completion and the date stated in Taking over certificate

46.0 Advance payment :

46.1 Deleted.

47.0 Securities : Deleted

48.0 Day works :

48.1 Deleted

49.0 Cost of repairs :

Loss or damage to the Works or materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods is to be mended by the Contractor at the Contractor's cost if the loss of damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

50.0 Completion :

The Engineer is to issue a certificate certifying Completion to the Contractor and the Employer when he decides that the work is virtually completed.

51.0 Taking over :

The Employer takes over the Works within thirty 30 days of the Engineer issuing a certificate of Completion.

52.0 Final account :

52.1 The Contractor is to furnish to the Engineer a detailed account of the total amount which he considers is payable to him under the Contract before the end of the Defects Notice Period. The Engineer is to certify any final payment which is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer is to issue a schedule which states the scope of the corrections or additions which are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer is to decide on the amount payable to the Contractor.

53.0 Operating and maintenance manuals :

Deleted.

54. Remedies and Powers due to Default of Contractor :

54.1 If the contractor shall become bankrupt or if the Engineer shall certify in writing to the Employer that in his opinion the contractor :

- a) has abandoned the contract, or
- b) without reasonable excuse has failed to commence the work or has suspended the progress of the works for twenty eight(28) days after receiving from the Engineer written notice to proceed, or
- c) has failed to remove materials from the Site or to pull down and replace work twenty eight(28) days after receiving from the Engineer written notice that the said materials or work had been condemned and rejected by the Engineer under these conditions, or
- d) despite previous warnings by the Engineer, in writing, is not executing the works in accordance with the contract, or is persistently or flagrantly neglecting to carry out his obligations under the Contract, or
- e) has to the detriment of good workmanship, or in defiance of the Engineer's instructions to the contrary, sublet any part of the contract, then all the events mentioned in this clause 54.1 shall for the avoidance of doubt be a breach of this contract and the Employer may, after giving fourteen(14) days notice to the contractor, enter upon the site and the works and expel the contractor there from without thereby voiding the contract, or releasing the Contractor from any of his obligations or liabilities under the contract, or affecting the rights and powers conferred on the Employer or the Engineer by the contract, and may himself complete the works or may employ any other contractor to complete the works. The Employer or such other contractor may use for such completion so much of the constructional plant, Temporary works and materials, which have been or are deemed to be reserved exclusively for the execution of works under the provisions of the contract, as he or they may think proper, and the Employer may, at any time sell any of the said constructional plant, Temporary works and unused materials and apply the proceeds of sale in or towards the satisfaction of any sums due or which may become due to him from the contractor under contract.

54.2 Valuation at date of forfeiture :

The Engineer shall as soon as may be practicable after any such entry and expulsion by the Employer, fix and determine ex-parte, or by or after reference to the parties, or such investigation or enquiries as he may think fit to make or institute, and shall certify what amount, if any, had at the time of such entry and expulsion been reasonably earned by or would reasonably accrue to the contractor in respect of work then actually done by him under the contract and the value of any of the said unused or partially used materials, any constructional plant and any Temporary works.

54.3 Payment after forfeiture :

If the Employer shall enter and expel the contractor under this clause, he shall not be liable to pay to the contractor any money on account of the contract until the expiration of the Defects Notice period and thereafter until the costs of execution and maintenance, damages for delay in completion, if any, and all other expenses incurred by the Employer have been ascertained and the amount thereof certified by the Engineer. The contractor shall then be entitled to receive only such sum or sums, if any as the Engineer may certify would have been payable to him upon due completion by him after deducting the said amount. If such amount shall exceed the sum which would have been payable to the contractor on due completion by him then the Contractor shall , upon demand pay to the Employer the amount of such excess and it shall be deemed a debt due by the contractor to the Employer and shall be recoverable accordingly.

55.0 Property :

55.1 All materials on the Site, Plant, Equipment owned by the Contractor, Temporary Works and Works are deemed to be the Property of Employer and are at his disposal if the Contract is terminated because of a fundamental breach of Contract by the Contractor.

56.0 Frustration :

56.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer is to certify that the Contract has been frustrated. The Contractor is to make the Site safe and stop work as quickly as possible after receiving this certificate and is to be paid for all work carried out before receiving it and for any work carried out afterwards to which he was committed.

Section 3. Contract Data

Items marked "N/A" do not apply in this Contract

The following documents are also part of the Contract :

	Clause Reference (Conditions of contract)
*The Contractor's Bid and Letter of Acceptance	[1]
*The Conditions of Contract	[1]
*The Technical Specifications	
*The Program	[25]
*The Bill of Quantities	[35]
The Engineer is :	Chief General Manger (PG II) or any other officer nominated from time to time by Chairman Cum Managing Director(CMD) of HSCC (I) Ltd. Plot 6(A),Block-E, Sector-1,Noida, Distt. Gautam Budh Nagar, Uttar Pradesh-201301.
*The Start Date is as notified in the letter of Acceptance	
*The Intended Completion Date for the whole work is 60 calendar days from Date of Award.	[17]
*The Contractor is to submit the program for the works within 7 days of being notified of the acceptance of his bid.	[25]
*The contractor is to submit the updated program at the interval of 15 days	[25.3]
*The defect notice period is six months	[33]
*The defect correction period is 15 days	[33, 34]
*The language of the Contract is English	[3]
*The currency of the contract is the Indian Rupees.	
*The proportion of payments retained is 7.5%. Limited to 10% of contract value.	[44]
*The liquidated damages for the whole of the work are Rs. 1,000/- per day.	[45]
*Maximum liquidated damages shall be 10% of the contract price.	[45]
*The amounts and currencies of the performance guarantee are	[47]
Amount : 5% of Contract price	
Currency : Indian Rupees	

FORM OF AGREEMENT

This Agreement made the _____ day of _____ 2008 between Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India (hereinafter called "The Employer") represented by M/s HSCC (India) Limited, E-6(A), Sector - 1, Noida (UP) - 201301 who enters into this Agreement of the one part and M/s _____ (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that certain Works should be executed by the Contractor, Cleaning, white washing etc. including other misc. Civil & Electrical repair works of CGHS Building at RHTC Hostel complex near Palam flyover at Dwarka, New Delhi. Sub head – I: Misc. Civil & Electrical repair works and has accepted a bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witnesseth of follows :

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz :
 - (a) The Letter of Acceptance ;
 - (b) The said bid ;
 - (c) The Conditions of Contract ;
 - (d) The Technical Specifications ;
 - (e) The Priced Bill of Quantities ;
 - (f) Any other relevant documents referred to this Agreement or in the aforementioned documents
3. In consideration of the payments to be made by the Employer to the Contractor as herein after mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or only such sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

In Witness whereof, the parties hereto have caused this Agreement to be executed the day and year first before written.

Signed, Sealed, and Delivered by the Said _____

Binding Signature of [HSCC] on behalf of Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India

Binding Signature of Contractor _____

in the presence of

Witness (1) :

Witness (2) :

Technical specifications

General

- 1.01 The specifications and mode of measurements for Civil and Plumbing works shall be accordance with C.P.W.D. specifications 1996 Volumes 1 to VI.

Unless otherwise specified in the nomenclature of individual item or in the specifications, the entire work shall be carries out as per the C.P.W.D. specifications with upto date correction slips upto the date of opening of tender.

- 1.02. For the item not covered under CPWD Specifications mentioned above, the work shall be executed as per latest relevant standards/codes published by B.I.S. (formerly ISI) inclusive of all amendments issued thereto or revision thereof if any upto the date opening of tenders.

- 1.03 In case of B.I.S. (formerly I.S.I.) codes/specifications are not available, the decision of the Engineer based on acceptable sound engineering practice and local usage shall be final and binding on the contractor.

- 1.04 However, in the event of any discrepancy in the description of any item as given in the schedule of quantities or specifications appended with the tender and the specifications relating to the relevant item as per CPWD specifications mentioned above or in drawings the former shall prevail.

- 1.05 The rates for different items of work shall be for all heights, lifts, leads and depths of the building except where otherwise specified in the item of work or in special conditions appended with the tender.

- 1.06 The work shall be carried out in accordance with the architectural, structural, plumbing and electrical drawings etc. The drawing shall have to be properly co-related before executing the work. In case of any difference noticed between the drawings, final decisions in writing of the Engineer shall be obtained by the contractor. For items, where so required samples shall be prepared before starting the particulars items of work for prior approval of the Engineer and nothing extra shall be payable on this account.

- 1.07 All materials to be used on works shall bear I.S. Certification mark unless specifically permitted otherwise in writing. In case I.S. marked materials are not available (not produced) the materials used shall conform to I.S. code or CPWD specifications as applicable in this contract.

In such cases the Engineer shall satisfy himself about the quality of such materials and give his approval in writing. Only articles classified as "First Quality" by the manufacturers shall be used unless otherwise specified. All materials shall be tested as per provisions of the Mandatory Tests in CPWD specifications and the relevant IS specifications. The Engineer may relax the condition regarding testing if the quality of materials required for the work is small. Proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the satisfaction of Engineer. Grade of cement used shall be 43/53 unless otherwise specified explicitly. The contractor (if them of Design Mix specified in BOQ) shall get the Design Mix for RCC done by the labs approved by HSCC only. Reinforcement Steel used shall be of FE-415 unless otherwise specified. All materials shall be bought from only approved sources.

- 1.08 In respect of the work of the sub-agencies deployed for doing work of electrification, air-conditioning, external services, other building work, horticulture work, etc. for this project and any other agencies simultaneously executing other works, the contractor shall afford necessary coordination and facilities for the same. The contractors shall leave such necessary holes, opening etc. for laying / burrying in the work pipes, cables, conduits clamps, boxes and hooks for fan clamps, etc. as may be required for the electric, sanitary air conditioning, fire fighting, PA system, telephone system, CCTV system, etc. and nothing extra over the agreement rates shall be paid for the same.
- 1.09 Unless otherwise specified in the bill of quantities the rates for all items of work shall be considered as inclusive of plumping out or bailing out water if required for which no extra payment will be made. This will include water encountered from any source such as rains, floods, subsoil water table being high or due to any other cause whatsoever.
- 1.10 Any cement slurry added over base surface (or) for continuation of concreting for bond is added it is deemed to have in built in the item unless otherwise/explicitly stated and nothing extra shall be payable or extra cement considered with consumption on this account.
- 1.11 The rate for all items in which the use of cement is involved of charges for curing.
- 1.12 The contractor shall clear the site thoroughly of all scaffolding materials and rubbish etc. left out of his work and dress the site around the building to the satisfaction of the Engineer before the work is considered as complete.
- 1.13 Rates for plastering work (excluding washed grit finish on external wall surfaces) shall include for making grooves, bands etc wherever required and nothing extra shall be paid for the same.
- 1.14. The rates quoted for all brick/concrete work shall be deemed to include making openings and making good these with the same specifications as shown in drawings and/or as directed. No extra payment shall be made to the contractor on this account.
- 1.15 Rtes for all concrete/plaster work shall include for making drip course moulding, grooves etc. wherever required and nothing extra shall be paid for the same.
- 1.16 The rates quoted by the tenderer shall be deemed to be for the execution of works
- 1.17 The quoted rates shall be for finished items and shall be complete in all respects including the cost all materials, labour tools & plants machinery etc. all taxes duties levies octroi, royalty charges, statutory leavies etc. applicable from time to time and any other item required but not mentioned here involved in the operations described above. The client/HSCC/Employer shall not be supplying any material, plant etc. unless explicitly mentioned so.

TECHNICAL SPECIFICATION for FURNITURE

❖ **Following Basic Material to be Used in Office Furniture with prior approval of Client :**

Material Requirements For All Revolving And Tubular Chairs :

1. Cushion chairs are made out of flexible polyurethane foam molded to have consistent hardness of 20-24 kg .
2. The polyurethane foam should be molded with density 45 +/- 2 kg/meter cube and hardness 20 +/- 2 kg on hardness machine at 25% compression.
3. Armrest of chairs should be made out of integral skin polyurethane foam of shore hardness 'a' 50-70 and reinforced with ms steel insert except unless otherwise specified.
4. Gas lift mechanism for height adjustments tested for 100000 cycles of operation.
5. Chair base of the pedestal consists of 5 prongs made of 5 mm thick ms plates.
6. Plastic cladding is provided to make the pedestal look good aesthetically. The ms pedestal should be tested for load bearing.
7. Twin wheel castors are made of nylon and should be tested to carry a load upto 82 kgs on the chair.
8. All steel components should be powder coated conforming to :-
 - ❖ Dry film thickness more than 45 microns.
 - ❖ Salt spray test to withstand corrosion.
 - ❖ Adhesion as per din 53152 standards.
 - ❖ Scratch hardness as per bs 3900/e2
 - ❖ Impact test.
 - ❖ Pencil scratch test

Mandatory Tests To be Done By Manufacturer on Chairs :

- Seating Impact test.
- Arms Strength Test
- Back Durability Test.
- Castor/ Chair durability test.
- Base Test.
- Castor retention test.
- Castor Pull Out test.
- Castor Breakability Test.

Powder Coating Tests :

All MS components shall be epoxy polyester powder coated using the seven chamber pretreatment process with the powder thickness greater than 40 microns Dry Film Thickness.

Tests to Be Carried Out on Powder Coating :-

- Cross Cut Test- To check Adhesion
- Impact Resistance Test – To 150 kgs/cm as per BS 3900/E3.
- Scratch Hardness- Upto 4 kgs as per BS 3900/E2.
- Salt Spray Test.

Anti Rust Treatment To Be Followed For All Metal Components :

The manufacturer should have anti rust treatment facilities for treating all the metal components.

The anti rust treatment shall consist of Removal of oil by treating metal Components with sodium carbonate and alkaline phosphate at 60 degrees centigrade followed by Rinsing with water at normal temperature. The rinsed components are to be dipped in phosphoric acid solution at 45 degrees centigrade for 10 minutes minimum for de-rusting followed by Rinsing. Components shall undergo phosphating by dipping in phosphating tank containing iron hydrogen phosphate dissolved in phosphoric acid at normal temperature for minimum 5 minutes followed by rinsing and finally Dipping components in chromic phosphatic acid reducing agent chemical at temperature of 80 degree centigrade(+/-10%) for minimum period of 60 seconds.

Specifications For Materials And Processes To Be Used On Furniture

Specifications For Steel Used In Chairs and Other Items :

- Cold rolled steel for MS sheet shall have thickness ranging from 0.63mm to 1.2mm as per IS:513-1994.
- Hot rolled steel for MS sheet shall have thickness ranging from 2.5mm to 3.15mm as per IS:10748 Group I.
- MS ERW tubes used for tubular components should satisfy IS-7138.

Specification For Fabric To Be Used For Upholstery :

<u>Material Type</u>	<u>Description/ Selection Criterion</u>
100% Polyester, fiber dyed	For a Span of 1.2 Meters shall have weight 330-grams/ meters.
100% poly Propylene	For a Span of 1.2 Meters shall have weight 230-grams/ meters.

Material Specifications :

1) Plain Particle Board (Medium Density) :

Particle boards conforming to IS 2380(1977) with physical characteristics as under

Density	:	600 –900 kg per meter cube.
Moisture content	:	5.10%
Water absorption	:	2 hour test – max 15% 24 hour test – max 40%
Swelling in water	:	2 hour – max. 5% thickness
Swelling due to water absorption	:	max 6%
Tensile strength perpendicular to surface thickness)	:	min 0.3 Newton per millimeter square.(for all thickness)
Tensile strength after cyclic test	:	min 0.3 N/mm square
Screw withdrawal strength on face	:	min 1250 N
Screw withdrawal strength on edge	:	min 850 N

2) Medium Density Fiber Boards :

Medium Density Fiber Board conforming to IS: 2380-1977 with following physical characteristics

Specific Gravity	:	0.5 to 0.9
Density	:	600 –900 kg per meter cube.

Moisture content	:	5 to 10%
Water absorption	:	2 hour test – max 7%
		24 hour test – max 15%
modules of rupture upto 20mm thick	:	min 30 N/mm square.
Modules of rupture above 20 mm thick:		min 25 N/mm square.
Linear expansion in thickness due to surface absorption	:	max 5%
Swelling due to general absorption after 24 hour soaking in		
Thickness	:	max 4%
Length	:	max 0.4%
Width	:	0.4 % min.
Tensile strength perpendicular to surface	:	0.7 N/mm square.(for all thickness)
Screw withdrawal strength on face	:	min 1500 N
Screw withdrawal strength on edge	:	min 1250 N

3) Pre Laminated And Twin Particle Boards :

Prelaminated and twin particle boards as per IS:2380-1977.

Density	:	600 –900 kg per meter cube.
Moisture content	:	5 to 10%
Water absorption	:	2 hour test – max 15%
		24 hour test – max 30%
Swelling in water	:	2 hour – max. 8% in thickness
Modules of rupture	:	min. 15 N/mm square.
Tensile strength perpendicular to surface	:	min 0.5 N/mm square.(for all thickness)
Screw withdrawal strength on face	:	min 1550 N
Screw withdrawal strength on edge	:	min 850 N

The following characteristics are according to annexure of IS:128323-1990.

Resistance to steam- No sign of blister, delaminating or change in surface finish.
Resistance to crack – No sign of crack and delamination.
Resistance to cigarette burn.

Resistance to stain.

Abrasion Resistance (min) in no of revolutions.

4) Post formed Laminate Sheets :

The pos formed (high pressure decorative laminate) one side bearing 0.6 or 0.8 mm thick decorative conform to NEMA specification- ANSI/NEMA/LD-3-1991.

The physical characteristics and test requirements are as per NEMA-LD-3-1991.

Impact strength - Ball Impact resistance min 20"
Wear resistance - Min 400 cycles.
Gross dimensional change in machine direction - Max. 1.1%
Gross dimensional change in cross machine direction - 1.4% max.
High temperature resistance - slight effect is accepted on specimen at the final examination.
Stain resistance -No effect is acceptable on the specimen.
Formability - Min radius 12.5mm.
Blister Resistance - Min 40 Sec.
Boiling water immersion test (2 hour test) as per IS:2046-1969.
Increase in weight - Max. 30%.
Increase in thickness - Max 30%.

5) Decorative Laminated Sheets :

Decorative thermosetting synthetic resin bonded laminated sheets are used in 1.0mm thickness and are of type 1 with having one side bearing the decorative surface. The finish, shade, color and pattern shall be mutually decided by the purchaser and supplier. Physical characteristics and test requirements are as per appendix of IS:1046-1969. Resistance to dry heat – no blistering or appreciable surface deterioration or loss of gloss. Dimensional stability in low humidity test at 70+/- 2deg C for 24 hours.- less than 0.5% in length and width dimensions. Resistance to immersion in boiling water.

Increase in weight - max 5%
Increase in thickness - max 5%

Resistance to staining for 24 hours with standing against agents specified in IS 2046-1969. specimen should not show blistering at the final examination. Cross breaking strength for 0.6mm thick—2000 kg per CM Square.

Cross breaking strength for 1.0 mm and 1.5mm thick – min 4000 kg per CM square.

Impact strength - min 0.035 kg fm

Machinery test - no Slitting or cracking.

6) Epoxy Powder Coating.

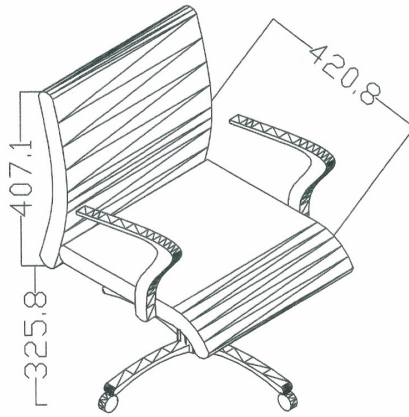
Epoxy powder used for coating shall be of a standard shade or as specified at the time of tender. The specific gravity of powder 1.6(+/-0.2) gives a DFT of 50-60 microns. Pencil Hardness of 2H; Cross hatch Adhesion(DIN 553151) or GT – ‘O’ gloss @ 60 DIN 67530 of 80 +/- 5% for all standard except black for which it shall be 45 +/-5 for black. The coating should be able to withstand min 500 hour of salt spray test. Impact resistance of 150kgcm.

ITEM SPECIFICATIONS :

CHAIRS :

Medium Back Revolving Chair for Deptt. Library / Conference Room etc :

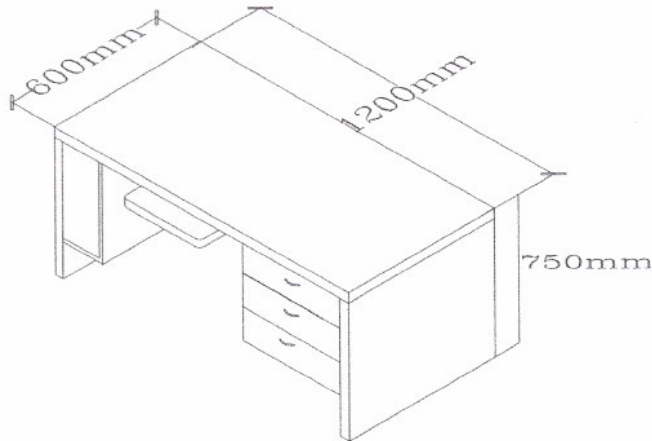
Overall height 980mm max, 905 min, overall width 570mm, overall depth 550mm, seat size 470-480mm (W) x 440-460(D) and back size 470-490 (W) x 620-590 (H), seat and back are made up of 12mm thick hot pressed ply wood upholstered with fabric and molded with polyurethane foam. The back plywood shall be designed with contoured lumbar support for extra comfort. The chair shall have an adjustable center push back mechanism with 17 degree max. tilt and tilt tension adjustment, any position locking facility and full 360 degrees swivel mechanism, the one piece arm rest should be made up of black integral skin polypropylene with 50-70 Shore “A” hardness reinforced with MS insert, the armrest are scratch and whether resistant. The arm rests are fitted to the seat with a connecting strip assembly made of 5mm of HR steel. The prong (base) is made of nylon and fitted with 5nos. twin wheel castors (castor wheel dia. 50mm). The prong (base) is 660mm pitch center dia (700mm with castors). The telescopic bellows is 3 piece telescopic type and injection molded in black polyurethane. The pneumatic height adjustment shall have adjustment stroke of 75mm and shall be operated at 30kgs extension force.



Rectangular Table (BOQ Item No. 2.07) :

The main desk of size 1200mm (L) X 600mm (D) X 750mm (H) made out of 18mm thick MDF batons and 0.5mm paper veneer to achieve an overall thickness of worktop 40mm, veneered portion shall be finished in high gloss polyester. The under structure made out of 18mm thick MDF board, provision for wire management and side panel out of 18mm thick MDF coated with melamine.

The modesty panel shall be made out of 18mm thick MDF board and coated with melamine; the drawer unit shall be constructed out of 18mm thick MDF board shall have a combination of 3 drawers. The drawer fronts shall be in paper veneer coated with high gloss polyester or melamine.

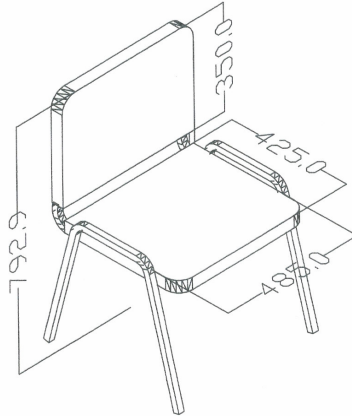


FILE CABINET:

Vertical file cabinet of size 1320mmH X 470mmW X 620mmD shall have 4 – drawer units. The Bottom Skirting shall be 66mm in height and shall be made from 22 gauge of CRCA MS conforming to IS-115 D-quality. The drawers shall have telescopic drawer slides mechanism to ensure smooth drawer movement. Drawer shall be tested to 50000 cycles with 40 kg load. The unit shall have anti-tipping mechanism to allow only one drawer to open at a time.

Chair for Examination Hall / Visitor :

Overall height 800mm, overall width 535mm, overall depth 550mm, seat size 485mm (W) x 425(D) and back size 495 (W) x 350 (H) seat and back are made up of 12mm thick hot pressed, two piece ply wood upholstered in fabric back and front, molded with polyurethane foam visitor chair, the back plywood shall be designed with contoured lumbar support for extra comfort. The understructure shall be out of frame of M.S. and 14 BG M.S. ERW and black powder coated.



Side Table :

The under structure shall be an assembly of tubular frames made of MS ERW oval tubes of 35mm x 15mm x 18 BG thick held together with perforated MS shelf and threaded nuts and m/c screws. The ends of tubular frames shall be fitted with rubber studs at top and bottom, the top studs shall be fitted with PVC vacuum pads for mounting and gripping glass top of 9.5mm thick float glass with rounded corners, the powder coated shelf shall be made out of 0.5mm thick perforated MS sheet welded to MS square pipe 15mm x 15mm x 14BG thick with 3mm thick HR steel plate on each side for fixing under structure assembly. The tables shall have top size 550mm (W) x 550mm (D) and overall height of 425 mm.

Table For Examination Hall :

The main desk of size 900mm (L) X 750mm (D) X 760mm (H) made out of 18mm thick MDF board and 0.5mm paper veneer to achieve an overall thickness of worktop 19mm, veneered portion shall be finished in high gloss polyester. Table shall have a shelf arrangement below the top. The understructure shall be out of frame of M.S. and 14 BG M.S. ERW and black powder coated.

FILE CABINET:

Vertical file cabinet of size 1320mmH X 470mmW X 620mmD shall have 4 – drawer units. The Bottom Skirting shall be 66mm in height and shall be made from 22 gauge of CRCA MS conforming to IS-115 D-quality. The drawers shall have telescopic drawer slides mechanism to ensure smooth drawer movement. Drawer shall be tested to 50000 cycles with 40 kg load. The unit shall have anti-tipping mechanism to allow only one drawer to open at a time.

**Directorate General of Health Services
Ministry of Health & Family Welfare
Government of India**

**TENDER
FOR**

**Renovation work of CGHS Building at RHTC Hostel
complex near Palam flyover for opening of CGHS
dispensary at Dwarka, New Delhi.
Sub head – 1 Misc. Civil & Electrical Repair works**

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CONTRACT & TECHNICAL SPECIFICATIONS**

NOVEMBER, 2008

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BILL OF QUANTITIES

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