

Name of work: Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.

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J.E.(Civil)

Consultant (Civil)

Executive Engineer
DTU, Bawana Road
New Delhi-110042

PRESS NOTICE
Delhi Technological University
NOTICE INVITING e-TENDER

The Executive Engineer, DTU, Bawana Road, Delhi on behalf of the Delhi Technological University invites online Item rate bids from CPWD registered contractor in appropriate class in furniture category and specialized agencies in the respective field for the following work:

NIT No. DTU/Engg.Cell/2017-18/06

Name of work:- Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.

Estimated Cost: **Rs. 41,63,010/-**

Earnest Money: **Rs. 83,260/-**

Period of completion: **45 Days**

Last time and date of submission of online bid **01-12-2017 up to 3.00 PM.**

The tender forms and other details can be obtained from the website:
<https://govtprocurement.delhi.gov.in>

Executive Engineer
DTU, Bawana Road
Delhi-110042

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT.

The Executive Engineer, DTU, Bawana Road, Delhi on behalf of the Delhi Technological University invites **online Item rate** bids from CPWD registered contractor in appropriate class in furniture category and specialized agencies in the respective field for the following work:

S. No.	NIT No.	Name of work & Location	Estimated Cost put to bid	Earnest Money	Period of Completion	Last date and time of submission of bid on line	Opening of Financial Bids of Technically qualified bidders
1	2	3	4	5	6	7	8
1	DTU/Engg.Cell/2017-18/06	Providing and Installing Furniture in Class Rooms/Lecture Hall/Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.	Rs. 41,63,010/-	Rs. 83260/-	45 Days	Up to 3:00 PM on 01.12.2017	At 3:30 pm on 01.12.2017

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <http://govtproucurement.delhi.gov.in> free of cost.
4. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
5. The intending bidder must have valid class and above digital signature to submit the bid.
6. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the comparative bid sheets.
7. Contractor can upload documents in the form of **JPG** format and **PDF** format.

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

1. EMD shall be in form of Demand Draft/Pay order or Banker`s Cheque/FDR of any Scheduled Bank are acceptable.
2. Enlistment Order of the Contractor.
3. Certificate of Registration for GST registration or acknowledgement receipt of GST registration.
4. Scanned copy of self attested PAN number.
5. Eligibility criteria mentioned below :-

The agency should have experience of having successfully completed works in Central Govt./ State Govt./ PSU departments during last seven years ending previous day last date of submission of tenders.

Three similar completed works costing not less than the amount equal to 40% of estimated cost put to tender.

Or

Two similar completed works costing not less than the amount equal to 60% of estimated cost put to tender.

Or

One similar completed work costing not less than the amount equal to 80% of estimated cost put to tender.

GOVT. OF DELHI
Delhi Technological University
NOTICE INVITING TENDER

Item rate bids are invited on behalf of Delhi Technological University from CPWD registered contractor in appropriate class in furniture category and specialized agencies in the respective field for the following work: - **Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.**

1. The work is estimated to cost **Rs. 41,63,010/-** This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed **Form No. CPWD 8** which is available as a Govt. of India Publication and also available on website: **www.CPWD.gov.in** Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. An integrity pact shall be signed by the successful bidders and it shall be part of the agreement.
4. The time allowed for carrying out the work will be **45 Days** from the date of start as defined in Schedule-'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
5. The site for the work is available.
6. The bid document consisting of, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on **website: <https://govtprocurement.delhi.gov.in>** free of cost.
7. Earnest Money in the form of Demand Draft or Bank Guarantee or Banker's Cheque or Fixed Deposit Receipt (**drawn in favour of Registrar, DTU, Delhi.**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission.

The original EMD should be deposited with original documents in the office of Executive Engineer inviting bids within the period of bid submission.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The required documents as specified in bid documents shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, the hard copy of the uploaded documents as specified in bid documents shall have to be submitted **by all bidders** in Engineering Cell, DTU.

The bid submitted shall be opened at **03:30 PM** on **01-12-2017**.

8. The bid submitted shall become invalid, if:
 - (i) The bidders are found ineligible.
 - (ii) The bidder does not deposit Original EMD with Division office of any E.E.(DTU). The EMD receipt shall only be issued from the place in which the office of receiving Division office is situated.
 - (iii) The bidder does not upload all the documents as stipulated in the bid documents including the copy of receipt for the deposition of original EMD.
 - (iv) If a tenderer quotes nil rates against any item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.
 - (v) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.

9. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the bid amount within the period specified in Schedule-'F'. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The Contractor whose bid is accepted will also be required to furnish either copy of applicable licenses registration or proof of applying for obtaining labour licenses registration with EPFO/ESIC/BOCW welfare board **including provident fund code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work** and program chart (Time and progress) with the period specified in Schedule 'F'.

10. Intending Bidders are advised to inspect and examine the lecture hall/auditorium/class rooms & others at site and its surroundings and satisfy themselves before submitting their bids as to the nature of the lecture hall/auditorium riser/steps, the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and

has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

11. The competent authority on behalf of Delhi Technological University does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
12. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
13. The competent authority on behalf of Delhi Technological University reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
14. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
15. The bid for the works shall remain open for acceptance for a period of **90 days** from the date of opening of financial bid. If any bidders withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the bidders shall not be allowed to participate in the rebidding process of the work
16. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) **Standard C.P.W.D. Form 8.**

Form of Earnest Money Deposit (Bank Guarantee Bond)

WHEREAS, contractor..... (Name of contractor) (Hereinafter called "the contractor") has submitted his tender dated..... (date) for the construction of (name of work) (Hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we..... Registered office at..... (Hereinafter called "the Bank") are bound unto **Executive Engineer, DTU, Bawana road, Delhi** in the sum of Rs. for which payment well and truly to be made to the said **Executive Engineer, DTU, Bawana road, Delhi** the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this..... Day of 20.... THE CONDITIONS of this obligation are:

- (1) If after Technical Bid opening of tender; the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by **Executive Engineer, DTU, Bawana road, Delhi**
 - (a) Fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;

OR
 - (b) Fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

OR
 - (c) Fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,

OR
 - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the **Executive Engineer, DTU, Bawana road, Delhi** either up to the above amount or part thereof upon receipt of his first written demand, without **Executive Engineer, DTU, Bawana road, Delhi** having to substantiate his demand, provided that in his demand The **Executive Engineer, DTU, Bawana road, Delhi** will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 6 months after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by **Executive Engineer, DTU, Bawana road, and Delhi notice of which extension** to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(SIGNATURE, NAME AND ADDRESS).

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

Receipt of Deposition of Original EMD

(Receipt No.** /Date**)

- 1.) Name of Work : **Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.**
- 2.) NIT No. : **DTU/Engg.Cell/2017-18/06**
- 3.) Estimated Cost : **Rs. 41,63,010/-**
- 4.) Amount of Earnest Money Deposit **Rs. 83,260/-**
- 5.) Last date of submission of bid dt. **01-12-2017 at 15.00 Hrs.**

Executive Engineer
DTU, Delhi.
Email :- eecivildtu@gmail.com

- 1.) Name of Contractor**
- 2.) Form of EMD**
- 3.) Amount of Earnest Money Deposit**
- 4.) Date of submission of EMD.....**

**Signature, Name and Designation of EMD
receiving Officer alongwith Office Stamp**

**** to be filled by EE.**

PERFORMANCE GUARANTEE

- (i)** The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- (ii)** The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 45 Days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
- (iii)** The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the Delhi Technological University is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

 - (a)** Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
 - (b)** Failure by the contractor to pay Delhi Technological University any amount due, either as agreed by the contractor or determined under any

of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.

- (iv)** In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Delhi Technological University.

INTEGRITY PACT

To,

.....**,
.....**,
.....**

Sub: NIT No. **DTU/Engg.Cell/2017-18/06** for the work **Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.**

Dear Sir,

It is here by declared that DTU is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the DTU.

Yours faithfully

Executive Engineer

**** To be filled by EE**

INTEGRITY PACT

To,

The Executive Engineer

DTU, Bawana Road

Delhi-110042

Sub: Submission of Tender for the work of **providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.**

Dear Sir,

I/We acknowledge that DTU is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by DTU. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, DTU shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorised to sign the relevant contract on behalf of DTU.

INTEGRITY AGREEMENT

This Integrity Agreement is made at**..... on this**..... day of
.....**.....
20..**.....

BETWEEN

Delhi Technological University represented through **The Executive Engineer, DTU** (Hereinafter referred as the '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....**.....
(Name and Address of the Individual/firm/Company)
through**..... (Hereinafter referred to as the
(Details of duly authorized signatory)
"Bidder/Bidder" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal/Owner has floated the Tender (NIT No. **DTU/Engg.Cell/2017-18/06**) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for

Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.

hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Bidder(s). AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

**** To be filled by EE**

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

- (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
- (c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Bidder(s)

1) It is required that each Bidder/Bidder (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2) The Bidder(s)/Bidder(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

a) The Bidder(s)/Bidder(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

b) The Bidder(s)/Bidder(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

c) The Bidder(s)/Bidder(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose

of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- d) The Bidder(s)/Bidder(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Bidder(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
- e) The Bidder(s)/Bidder(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Bidder(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Bidder(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- 5) The Bidder(s)/Bidder(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Bidder(s) and the Bidder/ Bidder accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Bidder(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the bidder shall have powers to disqualify the Bidder(s)/Bidder(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Bidder from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and

determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Bidder.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Bidder, or of an employee or a representative or an associate of a Bidder or Bidder which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Bidder as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Bidder can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Bidders/Sub bidders

- 1) The Bidder(s)/Bidder(s) undertake(s) to demand from all sub bidders a commitment in conformity with this Integrity Pact. The Bidder/Bidder shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub bidders/ sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Bidders.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Bidder/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other

bidder, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CPWD.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Bidder is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

..... **
(For and on behalf of Principal/Owner)

..... **
(For and on behalf of Bidder/Bidder)

WITNESSES:

1. **
(Signature, name and address)

2. **
(Signature, name and address)

Place:

Dated:

**** To be filled by EE**

**GOVERNMENT OF INDIA
PUBLIC WORKS DEPARTMENT**

STATE: Delhi

Department: Engineering Cell

Item Rate Tender & Contract for Works

- (A)** Tender for the work of :- **Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.**
- (i)** To be submitted **online** by **15:00 hours on 01-12-2017** to **Executive Engineer, DTU, Delhi-42.**
- (ii)** To be opened **online** in presence of tenderers who may be present at **15:30** hours on **01-12-2017** in the office of **Executive Engineer, DTU, Delhi.**

T E N D E R

I/We have read and examined the notice inviting tender, schedule, A, B, C, D ,E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Delhi Technological University within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for **90 days from the date of opening of financial bid** and not to make any modifications in its terms & conditions.

A sum of **Rs. 83,260/-** is hereby forwarded in Receipt Treasury Challan / Deposit at call Receipt of a Scheduled Bank / fixed Deposit receipt of scheduled Bank/ Demand draft of a scheduled Bank, / Bank guarantee issued by a scheduled bank as earnest money. If I/We fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Delhi Technological University or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, If I/ We fail to commence work as specified, I/We agree that Delhi

Technological University or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or both Earnest Money and performance guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/We, am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the state.

Dated**.....

Signature of the Contractor

Postal Address -----**-----

Telephone No.-----**-----

Witness:-----**-----

FAX -----**-----

Address:-----**-----

E-MAIL -----**-----

Occupation:-----**-----

**** To be filled by Contractor**

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Delhi Technological University for a sum of Rs. _____** _____ (Rupees _____** _____
_____** _____)

The letters referred to below shall form part of this contract Agreement:-

- (a) _____**
- (b) _____**
- (c) _____**

For & on behalf of the Delhi Technological University

Dated**.....

Signature.....**.....

Designation.....**.....

**** to be filled by EE.**

SCHEDULES

SCHEDULE 'A'

Schedule of quantities, enclosed on separate sheets from **page no. 37-48**

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
-----NIL-----				

SCHEDULE 'C'

Tools and plants to be hired to the contractor:

S. No	Description	Hire charges per day	Place of issue
1	2	3	4
-----NIL-----			

SCHEDULE 'D'

Extra schedule for specific requirements / documents for the work, if any.

- NIL -

SCHEDULE 'E'

Reference to General Conditions of contract: - **General Conditions of Contract for CPWD works-2014 read along with correction slips/amendments issued up to last date of submission of Tender i/c extension if any issued from the office of D.G., CPWD and can be downloaded from www.CPWD.gov.in**

Name of work:

Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.

Estimated cost of work:-

Rs. 41,63,010/-

(i) Earnest money:-

Rs. 83,260/-

(ii) Performance Guarantee:-

5% of tendered Value.

(iii) Extended defect liability period security

7.5% of tendered Value.

(iii) Security deposit :-

2.5% of tendered Value.

SCHEDULE 'F'

General Rules & Directions: -
Officer inviting tender:

Executive Engineer, DTU, Delhi

Definitions:

2 (v)	Engineer-in-Charge	Executive Engineer, DTU, Delhi or his successor thereof.
2 (viii)	Accepting Authority	Hon'ble V.C. DTU
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%
2 (xi)	Standard schedule of Rates	Market Rates
2 (xii)	Department	DTU
9 (ii)	Standard CPWD contract form	CPWD form 8 & GCC-2014 read along with correction slips/ amendments issued up to last date of submission of Tender i/c extension if any issued from the office of D.G., CPWD and can be downloaded from www.CPWD.gov.in

Clause 1

- (i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance.
- 5 days**
- (ii) Maximum allowable extension
- 3 days with late fee @ 0.1% per day of Performance Guarantee amount.**

Clause 2

Authority for fixing compensation under clause 2.

Hon'ble V.C. DTU

Clause 2A

Whether Clause 2A shall be applicable

No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start

5 days

Schedule Item No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1	As detailed below	10 Days	1% of tendered value
2	As detailed below	20 Days	1% of tendered value
3	As detailed below	30 Days	1% of tendered value
4	As detailed below	45 Days	1% of tendered value

Time allowed for execution of work

45 Days

Authority to decide:

1. Extension of time

Hon'ble V.C. DTU

2. Rescheduling of mile stones

Hon'ble V.C. DTU

Clause 6, 6A

Clause applicable – (6 or 6A)

6A (Computerized measurement book to be submitted by Agency)

Clause 7

Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.

Rs. 25 lakh.

Clause 7 A

No Running Account Bill shall be paid for the work till the applicable labor licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.

Not Applicable

Clause 10A

List of testing equipment to be provided by the contractor at site lab.

Not Applicable

Clause 10 – B (ii)

Whether clause 10-B(ii) shall be applicable

Not Applicable

Clause 10C -

Not Applicable

Clause 10 CA

Not Applicable

Clause 10CC

Not Applicable

Clause 11 Specifications to be followed for execution of work.

Detailed nomenclature of items, specifications and conditions as per bid documents.

Clause 12	Type of Work	Original Work
	Deviation limit beyond which clauses 12.2 & 12.3 shall apply.	30% After approval of Hon'ble V.C.

Clause 16

Hon'ble V.C.

Competent Authority for deciding reduced rates.

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site.

As per requirement of work to execute in stipulated time as per direction of Engineer-in-Charge.

Clause 25

Constitution of dispute redressal committee :

Chairman :

Member :

Member :

a) For total claims upto or more then Rs. 25.00 Lakh

Hon'ble V.C.

Pro V.C-1

Registrar, Executive Engineer

Note: The above constitution of dispute redressal committee is subject to change, for which necessary notification shall be issued by the competent authority of the department, if required.

Clause 36 Modified provision

Requirement of Technical Representative(s) and Recovery Rate.

SL No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical /Technical representative)	Minimum experience	Number	Rate at which recovery shall be made per month from to contractor in the event of not fulfilling provision of clause 36(I)	
						Figures	Words
1	Site Engineer	Civil	Graduate Engineer	5 Years	One	Rs. 50,000/-	Rupees Fifty Thousand Only

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 year relevant experience with a reputed construction Co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

SPECIAL CONDITIONS

1. The contractors are advised to get acquainted with the proposed work and its site and also study the Architectural Drawings, specifications and special conditions carefully before tendering. No claim of any sort shall be entertained on account of any site conditions and ignorance of specifications and special conditions.
2. The work shall be carried out as specified in the nomenclature of individual item, specifications and conditions mentioned in bid documents.
3. The payment for Deviated quantities beyond the limit specified under clause 12 in Schedule F shall be paid as per clause 12.
4. The rates quoted by the contractor shall be taken as net and nothing extra shall be paid on any account i.e. royalty, cartage, sales tax and stacking at required places etc.
5. The rates for different items of work shall apply for all heights and depths, leads and lifts unless otherwise specified in the agreement or specifications applicable to the agreement. The rates would also include all arrangements for fixing of furniture on the floor including use of appropriate fasteners, fixtures, mortars, grouts etc as per direction of Engineer-in-Charge.
6. Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.
7. Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the approved manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications relevant BIS standards shall apply.

The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.

8. The contractor shall submit a detailed programme of work within 03 days of the date of issue of letter of award. Detailed program should include all the mile stones, cash flow, material procurement, manpower deployment etc for successful completion of work within the stipulated time of completion. Program must show clearly the critical path to complete the project in time. The Engineer-in-Charge can modify the program and the contractor shall have to work accordingly. During review of work progress, Engineer in Charge can ask to modify the programme. Contractor shall resubmit the modified program in 2 days.
9. The quantities of each item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.
10. Statutory deductions on account of GST, income tax and surcharge etc. as applicable shall be made from the gross amount of the bill.

11. The contractor shall make his own arrangements for obtaining electric connection, if required and make necessary payments directly to the department concerned.
12. No payment shall be made to the contractor for any damage caused by rain, snow fall, floods or any other natural causes whatsoever during the execution of work. The damage caused to work shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.
13. Some restrictions may be imposed by the security staff etc. on the working and or movement of labour and materials, etc, the contractor shall be bound to follow all such restrictions / instructions and nothing shall be payable on this account.
14. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work by storing materials on the road.
15. The contractor shall be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.
16. The rate for all items of work, shall unless otherwise clearly specified include cost of all labour, material and other inputs involved in the execution of the items.
17. The order of preference in case of any discrepancy as indicated in condition no. 8.1 under "Conditions of Contract" given in the **General Conditions of Contract for Central P.W.D work 2014 read along with correction slips/amendments issued upto last date of submission of Tender i/c extension if any** form may be read as the following.
 - a. Description of Schedule of quantities.
 - b. Special conditions,
 - c. Contract clauses of **General Conditions of Contract for Central P.W.D works 2014 (read along with correction slips/amendments issued upto last date of submission of Tender i/c extension if any)** form.
 - d. CPWD Specifications.
 - e. Relevant BIS Codes
 - f. Architectural drawings.
 - g. Manufacturers specification
 - h. Sound engineering practice.
18. Any reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
19. The contractor shall make his own arrangement of water for construction and drinking purpose as well for electricity and its distribution at his own cost. The department will render only assistance to the contractor for making application to DJB/ authorized Electric supply agency, if required. All the fees and charges including consumption charges shall be borne by the contractor.
20. The labour welfare cess @ 1% of gross work done shall be deducted.
21. No labour hutment/ jhuggis shall be allowed at site. Contractor should make all arrangement of transportation of labourers to & from the site. Nothing extra shall be paid to contractor on this account.

22. No extra payments shall be made for supplying and fixing of furniture at any height and lead.

23. **EXTENDED DEFECT LIABILITY PERIOD SECURITY:**

The extended period of defect liability shall be **One years** reckoned from the date of completion recorded by DTU for the completed work. **Apart from Security Deposit deducted from the bill as per Schedule-'E'** an additional 7.5% amount shall be withheld on Account of above as extended defect liability period security from each gross R/A bill and final bill till the sum deducted will amount to an additional security of 7.5% of tender value of the work. While the 2.5% of gross amount of bill security deposit shall be refunded after the completion of the defect liability period of 12 months after completion of work as per Clause 17 of the GCC, the remaining 7.5% amount withheld as security for the extended defect liability period for an additional four years shall be refunded only after five years from the date of completion of the work.

Sufficient staff and materials/Equipments etc. will be arranged by the contractor to enable to carry out the repairs/ rectifications immediately whenever pointed out by DTU free of cost. Extended defect liability period will start from 12 months after the date of final completion. During the extended defect liability period the contractor shall be liable to remove all the defects. All defects noticed during the currency of the Contract and also during the defect liability period and the extended defect liability Period (as per list below) shall be completely and satisfactorily rectified and repaired by the Contractor without any extra payment for the same. In case the Contractor fails to rectify these defects within 3 (three) days of lodging of written complaint with the Agency satisfactorily and completely, DTU reserves the right to get the rectification work done at the risk and cost of the Contractor. The decision of DTU in this regard shall be final and binding on the Contractor and shall be beyond the purview of the dispute settlement under clause 25 of General Conditions of Contract.

If the contractor fails to rectify the defects pointed out within 3 (three) days of lodging of written complaint during the extended defect liability period, then the rectification work shall be got done through any other agency/agencies at the risk and cost of the contractor during the extended defect liability period to the satisfaction of the DTU.

The following defects are to be rectified/repairs are to be done during the entire defect liability period of 1years from date of completion i/c the extended defect liability period.

- (i) Termite in Ply board or Block board or any other board installed.
- (ii) Defects in castors.
- (iii) Peeling off of PVC lipping from edges.
- (iv) Cracks in lamination.
- (v) Fading/peeling off of powder coating or paint or anodic coating or any other coat /veneer.
- (vi) Malfunctioning of Top-up mechanism in Chair.
- (vii) Fading/tearing of fabric on chair.
- (viii) Breaking/Cracking of Ply wood or Block board or any other board installed.
- (ix) Rusting of any metallic part.

- (x) Loosening of any screws/slides/fasteners/guide fixtures/gaskets/washers/bolts/nuts/clamps/brackets/rollers/castors/hardware etc.
- (xi) Bulging/bending/splitting of wooden parts/boards/Laminates etc.
- (xii) Loosing of/Malfunctioning of joints
- (xiii) Any other defect as notified by the Engineer-in-Charge.
- (xiv) If any defects are noticed in any of the furniture supplied by the agencies during the entire defect liability period including the extended defect liability period of five years, it shall be rectified/replaced by the contractor within three days of issuing of notice by the Engineer-in-Charge / DTU and, if not attended to, the same shall be got done by Engineer-in-Charge / DTU through other agency at the risk and cost of the contractor and recovery shall be effected from the amount retained towards guarantee. The extended defect liability security can be released in full, if bank guarantee of equivalent amount, valid for the duration of extended defect liability period, is produced and deposited with the Department.

This extended defect liability period security amount withheld will be refunded to the contractor on satisfactory completion of the entire defect liability period of 1 years including the extended defect liability period on recommendations of the Engineer-in-Charge.

- 24. On satisfactory completion of all the works as per the provision of the Contract, the Contractor shall hand over the works to the University authorities through DTU. The Contractor shall maintain sufficient staff and materials till the handing over of the works to the University authorities to protect the works and its installation from theft/damage from outside agencies.
All installations shall be neatly cleaned and of approved brand and make; set of keys along with key ring shall be handed over to the client. Nothing extra shall be payable on this account.
- 25. All hardware items shall be first quality from reputed approved manufacturers and shall be got approved from Engineer-in-charge before actual execution.
- 26. Open plan office arrangement (OPEA) shall comprise of basic elements/modules/units the partition, work surfaces, storage units, accessories, fixtures and fittings etc. arranged in desired configurations for office purpose.. The system shall offer flexibility to make subsequent changes/modifications and shall have in-built wire management system separately for electrical, computer data networking and telephone cables.
- 27. The complete system shall have facility to remove element/module/unit individually without affecting adjoining element / module/ unit for maintenance/ replacement purpose for subsequent changes.
- 35. All hardware components like clamps/ nut / bolts/ washers, screws, gaskets, fitting and fixture, brackets, roller/ guide/ slide, castors, hardware etc. as may be required or are forming integral part of the system/ basic elements / modules/ units for construction/ installation shall meet the relevant structural specifications and other requirements and shall be provided without any extra cost to the department.

36. All wood / wood based material shall be given appropriate anti-termite and fire retardant treatment. All the exposed surfaces of all the Aluminum/ MS sections / covers etc. shall be powder coated with 50 micron thick in desired shade.
37. All the materials used for the works shall meet relevant BIS or other applicable standards (latest revision). All Block board shall be of Grade-1 having lamination of approved colour on exposed face and balancing lamination on the unexposed face.
38. All basic elements / modules / units shall be machine made in factory and only assembly/ erection/ installation shall be done at site. The manufacturing factory shall be fully equipped with adequate machinery for achieving desired quality of workmanship as well as timely supplied. Engineer-in-charge shall, if required, inspect the factory during the manufacturing process and the contractors shall make all necessary arrangements for inspection of the team of Engineer-in-charge .
39. All the materials brought to site shall be protected suitably, duly wrapped / packed and stored so as to avoid any damage during loading/ transportation/ unloading/ handling / installation/ erection or due to weather conditions etc. at any stage.
40. The contractor shall provide necessary cut out for computer, telephone and power outlets as per the approved sample/ shop drawing without any extra cost to the department.
41. All the edges of the Block boards except those which are post formed shall be sealed with PVC edge banding tape of 2mm thickness and have primer at the back. The edge banding tape shall be rounded to a radius of 2mm to 3mm at hot edges and must not melt, and to be glued on edge banding machine.
42. All the post formed tops, work surfaces etc. shall have balancing lamination on the unexposed surface.
43. The Resins used in the furniture shall be of Phenol Formaldehyde only and not of Urea Formaldehyde.
44. **The bidder has to give an undertaking that all items supplied by him are strictly as per schedule of quantity of the agreement.**
45. The contractor shall produce all the materials well in advance so that there is sufficient time for testing of the materials and clearance of the same before incorporation in the work.
46. The contractor shall produce on demand from Engineer-in-charge, the approved manufacturers' certificates certifying that the materials conform to the technical specifications. For other materials which are ISI/ BIS marked, approved manufacturer's certificate shall be considered as fulfilling the mandatory test requirement. However in case Engineer-in-charge feels that the material supplied is not of required specifications even if it is ISI/BIS approved and have approved manufacturers certificate, he can send the sample to the approved lab for testing.
47. For any tests as directed by the Engineer-in-charge, that have to be carried out at an outside laboratory, the cost of materials, transport etc., shall be borne by the contractor.
48. The necessary tests shall be carried out on the items supplied and testing charges i/c transportation i/c packing etc. to Lab. shall be borne by the Agency The samples shall be provided by the Agency free of cost. The testing shall be

- carried out in any Govt. Lab./Public Undertaking Lab./IIT or NIT Lab./Government Engineering University or any other lab as approved by Engineer-in-charge.
49. The contractor shall arrange for conducting the tests in the presence of an officer, authorized by the Engineer-in-Charge. Full records of all the tests conducted shall be maintained by the contractor in the format given by Engineer-in-Charge which will be made available to the Engineer-in-Charge or to any officer authorized by him whenever required.
 50. The Engineer-in-Charge or his representative shall be free to visit the approved manufacturer's works at all reasonable times to witness and inspect the testing of furniture. It is the duty of contractor to see that all the furnitures supplied are tested as per relevant IS specifications. The contractor shall furnish approved manufacturer test certificate for the routine and type test conducted on the furniture offered. If necessary the contractor shall arrange to conduct the entire routine test at the approved manufacturer premises in presence of Engineer-in-charge or his authorized representative on receipt of material/equipment at site. The contractor shall offer equipment/material for inspection and get the same approved before installations.
 51. The Agency shall have to make his own arrangement for housing facilities for labour away from DTU campus site and shall have to transport the labour to and fro between site and labour camp at his own cost.
 52. Minor variations (up to +5%) in the dimensions of items manufactured by approved brands, may be accepted. However, the decision of the Engineer-in-Charge/Furniture Committee of the DTU in this regard will be final and binding on the bidder.
 53. While installation of modular furniture, existing flooring including any carpeting, tiling, sheets etc shall be protected by using PVC sheet/ card board/ foam sheet to avoid scratches/ damages for which nothing extra shall be paid.
 54. Nothing extra shall be paid for fixing of any furniture item like student benches, auditorium chairs or any other furniture item. The item rate is inclusive of all such civil and associated works required for proper fixing.
 55. The contractor has to hand over the furniture to the representative of DTU. Proper receipt/taken over note is required from university authorities before making payment. Furniture supplied at site shall remain in the custody of the contractor before such receipt of university authorities. Therefore, until the furniture item is handed over the university authorities, the responsibility of its safety, any damage shall lie with the contractor. No claim thereto shall be entertained.
 56. Any loss/damage during transportation, storage and installation at site is the sole liability of the contractor and nothing extra will be paid on such account.
 57. The samples of the furniture submitted by the bidder shall be under the safe custody of the Engineer-in-Charge at site, till the time the work is completed in all respects.
 58. The Engineer-in-Charge reserves the right, without being liable for any damages or obligation to reject any or all the samples without assigning any reason.

Executive Engineer
DTU, Bawana Road, Delhi

Tentative Sketches/Images of furniture item wise

1. HOD Table



2.1. Professor Table/Office Table



2.2. Associate Professor Table



3. ROUND TABLE: LINEA MEETING TABLE



4. Seminar Table / Classroom Teacher Table



5. DESKTOP TABLE / STUDY TABLE/HOSTEL TABLE



6. Meeting Table



7. LIBRARY READING TABLE



8.1. CENTRE TABLE



8.2. CENTRE TABLE (HOD)



9 CORNER TABLE SIZE



10. HOD main high back chair / Main Chair Leatherette Executive



11. Professor medium back chair / Visitor Chair medium back leatherette chair



12. Associate professor chair / Teacher Chair (Class room)



13. Visitor chair medium back base chair cum easy chair



14. Library Reading Room Chair



15. Conference Room Chair



16. Work Chair



17. HOD ROOM Sofa



18. Associate professor room Sofa



21. Student Desk Cum Bench



22. Vertical file cabinet





23. Steel storage almirah



24. Periodical Display Rack/News Paper Rack



25. Waiting Chairs Three Seater



NOTE: The images of furniture given above are indicative only.

LIST OF APPROVED MAKES

APPROVED MAKES OF RAW MATERIALS

MATERIALS:

S. No	Item	Approved Make List
1	CRCA Sheet/ERW Pipe/Aluminum/SS Sheets	TATA, SAIL, Jindal, Hindalco
2	Laminates	Century, Greenlam, Merino, Godrej
3	Boards (Particle/MDF/HDF)	Century, Greenply, Greenlam, Merino, Asian, Godrej
4	Hardware & Fixtures	Hettich, Haffele, Dorma, Kich, Godrej
5	Powder Coat	Nerolac, Shalimar, Berger, Asian Paint
6	Locks	Godrej, Dorma, Hettich
7	Fabric/Leatherette	Response, Comrad
8	Glass	Saint Gobain, Modi Guard, Asahi
9	Mattress	Godrej, Sleepwell, Springwell,

Schedule of Quantity

Name of work:- Providing and Installing Furniture in Class Rooms/Lecture Hall/ Library/Conference Room /Faculty Rooms etc. of Delhi School of Management (D.S.M.), DTU, Bawana Road, Delhi.

S.No	Description	Qty	Unit	Rate	Amount
1	H.O.D. Table				
	<p>Providing and placing of Principal Table Table Set consisting of Main table, Mobile Drawer Unit, Side Table and Book Case. The Main Table is of Size : 3600mm(L) x 1080mm(D) x 750mm(H), Side Table/Side Unit of size 1900mm(L) x 480mm(D) x 550mm(H) and 2Nos of Book Case of size 1000mm(W) x 480mm(D) x 2035mm(H). Main Table top surface is made of 90mm thick MDF board as per IS : 14587 Grade II & Type II with Veneer and final coating of PU of hardness 1.5H on top edge. A leather cover shall be provided above the Main Table Top at the centre of the table to give rich look and scratch resistance. The Main Desk should contain in Smart case-space slides effortlessly in style. The Main desk is provided with wire management system. The Mobile Drawer Unit having 3 drawers of size 480mm(W) x 640mm(D) x 600mm(H) made of 25mm Thick MDF board with Veneer coating on top and PU of hardness 1.5H edge coating. Side Unit/Side Table shall be provided with castors for ease of movement and complete storage which is made of 25mm thick MDF board with Veneer coating on top and PU coating of hardness 1.5H on edges. Side Unit shall contain 2 Hinge door storage and a 2 Drawer unit for keeping files. The complete side unit is also provided with a open space for keeping CPU/Files. The complete set shall contain 2 Nos Bookcase unit. The Size of each Bookcase is 1000mm(L) x 480mm(D) x 2035mm(H), is made of 25mm thick MDF board with Veneer coating on top and Polyurethane edge coating of hardness 1.5H. The Bookcase Unit is provided with 4 Hinge Doors having 2 Hinge Doors at the bottom and 2 Hinge Glass Door above. Hinge Glass door are made with Glass thickness of 5mm and all accessories like handles and fittings. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	1	Each		
2	Professor Table/Office Table				
2.1	Professor table				

	<p>Providing and placing of Faculty Table Set consists of a Main Table and Side Table joined together to form one single table set. Main table overall size - 1600mm(L) x 800mm(D) x 750mm(H). Worktop of the main table shall be made of 48mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. Side panel of the main table shall be of size 750mm x 700mm made of 48mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. Modesty of Main Table of size 1150mm(L) x 475mm(H) is provided made up of 18mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. Side Table of overall size 1800mm(L) 480mm(D) x 620mm(H). Worktop of the side table shall be made of 18mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. Side panle of the side table shall be of size 480mm x 475mm made of 18mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. Back Panel side Table of size 1750mm(L) x 480mm(H) is provided made up of 18mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. Side Table is provided with sliding doors storage which makes the side table into a side table cum storage unit. Sliding doors are made up of 18mm Thick (± 1mm) Pre-Laminated Board having edge banded with matching 2mm thick pvc lipping. On the top of the side table a Access flap of size 220mm(L) x 115mm(W) is provided for mounting Switch Plates having 2Switches + 1 Telephone Socket + 1 Data Cable Socket. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	1	each		
2.2	Associate Professor Table				
	<p>Providing and placing of Faculty Table Sets. MAIN TOP : 1800X795MM; Particle-board (Melamine Finish) 25mm top + 15mm frame; 2mm PVC Lipping on top and 0.35mm PVC Lipping on frame. MODESTY PANEL: 1100X405X 16mm Thick Particle-board (Melamine Finish) ; with 0.35mm THK PVC Lipping.</p> <p>DRAWER FRONT: 500X170X 16mm Thick Particle-board (Melamine Finish) ; with 0.35mm Thick PVC Lipping. KBPT : 578 (W) X 284 (D) X 16mm Thick Particle-board (Melamine Finish) ; with 0.35mm Thick PVC Lipping. Side Unit : 1600 (L) X500 (W) x 650 (H) all panels are 16mm Thick Particle-board (Melamine Finish) with 0.35mm Thick PVC Lipping. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	12	each		
3	ROUND TABLE: LINEA MEETING TABLE				
	<p>Providing and placing of Faculty Room Discussion Table as per site requirement. Table worktop shall be made of 25mm Thick Pre-Laminated Twin Board with 2mm Thick PVC Edge banding. The complete table is in Knocked Down construction. The understructure of the table shall be made from 8mm Thick HR plate with Levelers. The understructure base shall be 600mm Dia and the Table Top is connected with understructure with a vertical support tube of dia 90mm having 2mm Thickness.</p>				
3.1	900 mm dia x 730 mm H	12	Each		
4	Seminar Table / Classroom Teacher Table				

	<p>Providing & supplying of Seminar Hall Table. The work surface of the table is made of 25mm thick both side Pre-Laminated Particle Board with 2mm Thick PVC edge banding on straight outer edges. Modesty panel is made of 16mm Thick Plain Particle Board, Post laminated with 0.6mm Top laminate on either side and 2mm Thick PVC edge banding on straight outer edges. Legs made from 1.6mm Matt silver anodized aluminium extrusion. Legs assembled together with 8mm thick MS powder coated plate at bottom and 5mm Thick MS powder coated plate at Top. The Base support plate should have provision for wire entry and glide fixing. The wire carrying is facilitated through the hollow space between two legs extrusions and the wire are connected between removable rigid PVC extrusion in the Leg. Table supports brackets are provided for overall stability made from 2mm Thick MS sheet. Grommet is provided made from plastic moulded components to facilitate access of Electrical/Data/Voice sockets access from Top. Powder coated Switch mounting tray made from 0.8mm and 2mm Thick MS sheet fitted on modesty through which cables can be passed. Switches to be mounted on tray. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>				
4.1	Table of size 1350mm(L) x 600mm(W) x 680mm(H)	6	Each		
5	DESKTOP TABLE				
	<p>Providing and Placing of Tables of different sizes. Table work surface shall be made from 18mm thick Pre-Laminated Particle Board(PLB). All work surface edges are duly sealed with 2mm thick PVC Edge banding. Understructure of the table consists of Rectangular Frame fabricated component in 1.2mm thick CRCA (IS:513) with Epoxy polyester Powder coat. Leg should be Fabricated component in 38mm x 25mm x 1.2mm thick MS ERW Tube as per IS:7138 complete Epoxy polyester Powder coated, Plastic Cap for Cable travel shall be provided made from Injection Moulded Polypropylene. Leveller glide for Leg shall be provided made of Nylon-6 & MS Bolt. Drawer Unit of size 685mm(H) X 450mm(D) X 400mm(W) shall be provided having 3 drawers. Drawer Shell, drawer tray, Drawe Front, Frame Assembly shall be made of 0.6mm thick CRCA as per IS:513 with Epoxy polyester Powder coat.10 lever cam Lock shall be provided in the drawer unit. Drawer Unit should have a handle made from Injection Moulded Polypropylene & Leveller of Nylon6 & MS Bolt. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>				
5.1	Table of Size 1050mm(L) x 600mm(D) x 750mm(H)	25	each		
6	Meeting Table				

	<p>Providing and placing Elliptical/Boat shape Conference Tables. Table Top shall be 31mm +/-1.5mm Thick, Base Material 18+12mm MDF board as per IS :12406 + Natural Veneer 0.5mm on Top surface 0.6mm balancing laminate on bottom surface. Chamfer edges and Veneer portion of worksurface is finished in PU Matt paint. The Understructure of the Table consists of Veil and Cross Member which are made of 18mm Thick (± 1mm) Pre-Laminated Twin Board with 0.6mm Top laminate on either side having 2mm Thick and 0.8mm Thick PVC edge banding of matching colour on outer edges on outer edges of cross member. Legs are made from 1.6mm Thick Matt silver Anodized Aluminium extrusion. Legs assembled together with a plastic holder at bottom and 5mm thick HR Sheet(IS:2062) which is powder coated upto 40-60Microns. The Plastic holder is having provision for wire entry and glide fixing. The wire carrying is facilitated through the hollow space between two leg extrusions and the wires are concealed between removable rigid PVC extrusion in the leg. Access Flap and Switch Mounting Tray is provided in the table. It is Made from Matt silver Anodized Aluminium extrusion and plastic moulded components to facilitate access of Electrical/Data/Voice sockets access from Top. Powder coated switch mounting tray made from 0.8mm and 1.2mm MS sheet(IS:513) which is powder coated 40-60micron. Switches to be mounted on tray as per requirement. Provision for mounting 8Module Switch plate on switch mounting tray shall be provided. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>				
6.1	14 Seater Table : 4200mm(L) X 1200mm(D) X 750mm(H)	1	Each		
7	LIBRARY READING TABLE				
	<p>Providing and Placing Library reading table. Table worktop shall be made from 25 mm Thick Pre-Laminated Board with 2mm Thick PVC Edge Banding. Understructure of the table is fabricated from C-Frames of 1.6 mm thick M.S C-Frame supporting the Top & MS ERW Tube Legs of Dia. 38.1 x 1.6 mm thick. All the metal parts shall be Epoxy Polyester Powder coated to the thickness of 50microns (+/-10). The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>				
7.1	Table of overall size 1800mm(L) x 900mm(D) x 740mm(H)	15	Each		
8	CENTRE TABLE				
8.1	<p>Providing and placing Centre Table of size: 1000mm (L) x 600mm(D) x 425mm(H). Understructure of the table which includes Legs, top wooden frame & bottom tie members are made out of first quality solid rubber wood without knots & defects on all faces. Bottom tray is made of 1.2mm thick MS sheet. Metal brackets are used for assembly purpose. Top: 8mm thick toughened clear glass. Construction: Knock-down assembly. Wooden members are PU coated with hardness-2H. Metal components are powder coated. Bottom MS metal tray is having floral pattern laser-cut. Top glass is having sand blasted floral pattern on bottom surface. Hardware: Knock-down assembly with high quality standard hardware like screws, metal inserts, wooden dowel, plastic leg bush. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge</p>	1	Each		

8.2	Providing and Placing of Centre Table of Size : 1100mm(L) x 600mm(D) x 500mm(H) It consists a Partial Black Tempered Top Glass of 8mm Thickness and a Full Black Tempered Bottom Glass of 6mm Thickness for using as a shelf. Gap between top glass and bottom glass shall be 150mm. Table Legs are made of Silver powder coated oval metal tubes of 1.5mm thickness. Glasses attached to the understructure via UV disc. The complete table shall have 30Kgs load bearing capacity. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.	10	Each		
9	CORNER TABLE SIZE				
9.1	Providing and placing Corner Table of size: 500mm(L) x 500mm(D) x 425mm(H). Understructure of the table which includes Legs, top wooden frame & bottom tie members are made out of first quality rubber wood without knots & defects on all faces. Bottom tray is made of 1.2mm thick MS sheet. Metal brackets are used for assembly purpose. Top: 8mm thick toughened glass. Construction: Knock-down assembly. Wooden members are PU coated with hardness-2H. Metal components are powder coated. Bottom MS metal tray is having floral pattern laser-cut. Top glass is having sand blasted floral pattern on bottom surface. Hardware: Knock-down assembly with high quality standard hardware like screws, metal inserts, wooden dowel, plastic leg bush. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge	10	Each		
	CHAIRS				
10	H.O.D. MAIN HIGH BACK CHAIR / Main Chair Leatherette Executive				
	Providing and placing PREMIUM EXECUTIVE REVOLVING CHAIR(High Back) of approved make. The seat and back are made up of 1.2cm thick hot pressed plywood and upholstered with pure leather of required color and moulded Polyurethane foam. BACK SIZE: 53.0cm. (W) X 95.4cm. (H), SEAT SIZE: 54.6cm. (W) X 49.0cm. (D) The chair should have 360 degree Revolving type , Front pivot synchro tilt mechanism, 5-position locking with anti-shock back mechanism. The High Resilliance Polyurethane foam is moulded with density=45+/-2 kg/m cube and hardness load 16+/-2 kgf as per IS:7888 for 25% compression. The seat and back are arrested together with a 9.0cm(W) spine made of 0.8cm thick HR steel. The armrest tube assembly is made of 2.54cm x 0.16cm . M.S. E.R.W. support tubes and Chrome plated.The armrest top is made of ABS & upholstered with foam & leather. The pedestal is made of die-cast aluminium with buffing finished. It is fitted with 5nos. twin wheel castors. The pedestal is 67.0cm pitch-center dia (77.0 cm with castor). The twin wheel castors are injection moulded in Black Nylon. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.	1	Each		
11	Professor MEDIUM BACK CHAIR / Visitor Chair medium back leatherette chair				

	<p>Providing and placing PREMIUM EXECUTIVE REVOLVING CHAIR(Mid Back). The seat and back are made up of 1.2cm.thick hot pressed plywood upholstered with pure leather of required color and moulded Polyurethane foam. BACK SIZE: 53.0cm(W) X 73.0cm(H), SEAT SIZE: 54.6cm(W) X 49cm(D). The High Resilliance Polyurethane foam is moulded with density=45+/-2 kg/m cube and hardness load 16+/-2 kgf as per IS:7888 for 25% compression. The seat and back are arrested together with a 9.0cm(W) spine made of 0.8cm thick HR steel. The armrest tube assembly is made of 2.54cm x 0.16cm . M.S. E.R.W. support tubes and Chrome plated.The armrest top is made of ABS & upholstered with foam & leather. The pedestal is made of die-cast aluminium with buffing finished. It is fitted with 5nos. twin wheel castors. The pedestal is 67.0cm pitch-center dia (77.0 cm with castor). The twin wheel castors are injection moulded in Black Nylon. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	1	Each		
12	Associate Professor CHAIR / Teacher Chair (Class room)				
	<p>Providing and placing in position Teacher High-Back Revolving type chair with head rest. The seat made up of insert moulded Polyurethane Foam upholstered with foam laminated mesh fabric, insert moulded foam assembled over a load bearing plastic seat cover, back is made up of two piece injection moulded frame, inner frame upholstered with mesh fabric and mounted on the main assembly, back adjustable lumbar support for achieving comfortable seating posture, seat size 44.5 - 52.5 cm depth (approx.), 46.4 - 51.0 cm width (approx.), sub assembly back size 55.5 cm- 62 cm height. (approx.), effective back height from Seat - 57 cm (approx.), polyurethane foam for seat having density 65±4 kg/m³, armrest top injection moulded in polyurethane and mounted on the injection moulded height adjustable type armrest, armrest height adjustable up to 4.5 cm (approx) in 3 steps & width movement adjustable, 360 degree revolving type. mechanism, single point control for seat and back adjustment, front pivot for tilt, tilt adjustment for back in 3position locking with anti shock feature, pneumatic height adjustment of 8.5 cm spine bracket made of aluminium die cast piece connecting to back with mechanism, pedestal made of die cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 6.0 cm approx.), base pedestal dia 65.0cm (approx.) and pitch center dia. 71.0 cm with castors, twin wheel castors injection moulded in Nylon etc. all complete as per manufacturers specification, approved sample and direction of Engineer-in-Charge</p>	12	each		
13	Visitor chair medium back base chair cum easy chair				
	<p>Providing and supplying visitor chair with the seat and back made of 1.2 cm thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Back size 47.5 cm. (W) x 58.0cm. (H) seat size 47.0 cm. (W) x 48.0 cm. (D). The Polyurethane foam is moulded with density = 45 +/-2 kg/m and Hardness = 20 +/- 2 at 25% compression.The one-piece armrests are injection moulded from black Co-polymer Polypropylene. The powder coated (DFT 40-60 microns) tubular frame is cantilever type & made of dia 2.54 ± 0.03cm x 0.2 ± 0.016cm thick M.S. ERW Tube complete as per the direction of Engineer-in-Charge</p>	60	each		
14	Library Reading Room Chair				

	<p>Providing and placing Library Reading Non Revolving Chairs.</p> <p>SEAT/BACK ASSEMBLY: The seat and back are made up of 1.2 +/- .2cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. Back Size : 49.5cm(W) x 71.0cm(H), Seat Size : 49.5cm(W) x 44.0cm(D)</p> <p>POLYURETHANE FOAM: The polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 on Hampden machine at 25% compression.</p> <p>ARMRESTS: The one-piece armrests made of black integral skin polyurethane with 50-70 Shore Hardness and reinforced with M.S. insert. The armrests are scratch and weather resistant. The armrests are fitted to the seat with seat armrest connecting bracket made of 0.3 cm thick. HR steel.</p> <p>TUBULAR UNDERSTRUCTURE: The understructure is made of M.S. tube dia.2.54cm+/-0.03cm x 0.2+/-0.016cm thick and black powder coated(DFt 40-60microns). The product should be complete and as per approved sample and as per the direction of Engineer-In-charge</p>	60	each		
15	Conference Room Chair				
	<p>Providing and placing Conference Room Revolving Type Chair.</p> <p>SEAT/BACK ASSEMBLY: The seat and back are made up of 1.2cm thick hot-pressed plywood measured and upholstered with Black Leatherite and moulded Polyurethane foam together. Back size : 48.0cm(W) x 64.5cm(H). Seat Size: 51.0cm(W) x 48.0cm(D). The High Resilience Polyurethane foam is moulded with density=45+/-2 kg/m³ and hardness load 16+/-2 kgf as per IS:7888 for 25% compression. MECHANISM : The chair should have Knee Tilt Synchro Mechanism with Seat Depth Adjustment. It shall have 360 Degree revolving, Single point control, 4 Position Locking with Anti-Shock Feature, Seat Back tilt ratio 1:2, Seat Depth Adjustment of 6.0+/-0.5cm can be locked in 6 positions, Tilt tension adjustment, ADJUSTABLE BACKREST : The backrest consists of a sliding up down mechanism which can be adjusted in the range of 7.5+/-0.5cm and can be locked in 4 positions for correct position of lumbar Support. ARMREST : The armrest top is made of moulded polyurethane and mounted on to a drop lift height adjustable M.S. Tubular armrest support Chrome Plated. The armrest height is adjustable in 5 steps upto 6.5 +/- 0.5cm and also Swivel adjustment of 22 Degrees on both sides. PEDESTAL : Pedestal should be fabricated from steel, chrome plated an assembled with injection moulded Polyurethane Hub Cap and 5Nos twin wheel castors pedestal is 66cm. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	30	Each		
16	Work Chair				

	<p>SEAT / BACK ASSEMBLY : It is made of 1.2cm thick Plywood and upholstered with fabric and moulded Polyurethane foam together with seat and back covers . The back foam is designed with contoured lumbar support for extra comfort . BACK SIZE 44.0cm(W) x 47.0cm(H), SEAT SIZE : 52.0cm(W) x 48.0cm(D) HIGH RESILIENCE (HR) POLYURETHANE FOAM : The HR polyurethane foam is moulded with density = 45 +/- 2 kg/m³ and Hardness 16 +/- 2 kgf as per IS : 7888 for 25 % compression . SEAT , BACK COVERS : The seat and back covers are injection molded in black Co - polymer Polypropylene . ARMREST ASSEMBLY : The one - piece armrest , are made of black integral skin polyurethane reinforced with MS . Insert with 50-70 Shore 'A ' hardness The armrests are scotch and weather resistant . The armrests are fitted to the seat with armrest brackets made of 0.5 ± 0.05 cm . thk . HR stool .</p> <p>4. 5. PERMANENT CONTACT MECHANISM : The permanent contact mechanism is designed with the following features : 360 ° revolving type . 14 ° ± 2 ° maximum back - lit only upright position locking . Tilt tension adjustment . The pneumatic height adjustment has an adjustment PNEUMATIC HEIGHT ADJUSTMENT : stroke of 11.0 ± 0.3cm</p> <p>6. 7 , TELESCOPIC BELLOW ASSEMBLY : The bellow is 3 piece telescopic type and injection moulded in black Polypropylene . PEDESTAL ASSEMBLY : The pedestal is fabricated from 0.2 ± 0.02 cm thick HR sheet (IS : DD 1079 , HR) , powder coated (DFT 40-60 microns) and filled with an injection molded black Polypropylene hub cap and 5 nos - twin wheel castors . The pedestal is 60.0 cm dia - cente dia . (70.0 * 1.0 cm . with casters) .</p> <p>9. TWIN WHEEL CASTORS : The twin wheel castors are injection moulded in Black Nylon. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	20	Each		
17	<p>Waiting Chairs Three Seater</p> <p>Providing and placing in position visitor chair of three seater steel chair with Arm with perforated metal sheet in seat and back. The cross beam at the base shall be made out of rectangular M.S. ERW tube having 80x40x2mm size with finish of powder coating of thickness not less than 40 – 50 microns. The legs & the armrest shall be fabricated out of chrome plated cold rolled steel with thickness of 1.2mm. Armrest & leg should be assembled to the cross beam with 2 Nos M10x100mm bolts. Seat & back shall be fabricated out of 1.4mm thick cold rolled M.S. sheet with finish of powder coating of thickness not less than 40 – 50 microns. The perforation should be of suitable size for proper ventilation. The side bar shall be chrome plated solid steel 30 x 12 mm with fluting & plastic inserts. The shell shall be assembled on the cross beam with the help of M8 Bolts. Three Seater Chairs of Size not less than 1630mm (L) x 675 mm (H) x 570mm (D). The entire fastening shall be done with high quality fasteners. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>	5	Each		
18	<p>Student Desk Cum Bench</p>				

	<p>Supply and assembly of Desk Cum Bench for Lecture Halls. A platform based design with self closing seat & desk opening closing system for lecture theatre rooms. Adjustment of seat heights for step heights ranging from 0 to 180mm in 20mm pitch should be available. Overall Height is 890mm and Depth is 1000mm in full open position of Seat and Back. Understructure : The understructure is made with steel ERW tube section (IS:228) of size 80mm x 40mm x 2.5mm Thick with powder coat finish. Understructure consists of two welded leg assemblies connected by means of welded seat side tube assembly and welded desk side tube assy on both sides. Sturdy anchoring by anchor bolts on to base of 10mm thick plate for proper resting of structure. Plastic clad & shoe main clad made of glass filled 30% nylon-6 for covering anchor bolts. Side clads : Two side clads made of 35mm thick Pre-Laminated Twin Board with 2mm thick PVC lipping. Desk side clad made of 18mm thick Pre-Laminated Twin Board & seat side clad & connecting clad made of 25mm thick Pre-Laminated Twin. Desklet : Size 615mm(W) X 513mm(D) from the centre of the Frame to the End. Height of the Desklet is 726mm(H) from the ground. Desk has opening & closing mechanism by means of desk slider and slider sleeve made of 30% glass filled nylon-6. Desk comprises of Pre-Laminated Twin desk with aluminium section anodized finish on to sides and Thermoplastic Elastomers (TPE) rubber on to aluminium section outer side for cushioning effect for desk opening & closing. Desk made of 18mm thick Pre-Laminated Twin fixed with aluminum extrusion on to sides for desk opening & closing. Seat : Size 480(W) X 566(D)mm from Centre of the Frame to the end of the Seat. Seat height from ground is 450(H)mm in full open position. Seat has self closing mechanism which will operate by means of spring. Seat understructure is a combination of welded fabricated structure made of Diameter 19mm x 2mm thick ERW tube with powdercoat finish which is covered by 0.8mm thick sheetmetal cover and upholstered with moulded foam inside and leatherite cover. Seat back comprises of ply with moulded foam of Foam Density 45 Kg/Cubic metre. Upholstered with leatherite cover of leatherite. Wire carrier : Wire carrier made of 0.8mm thick sheet metal for holding wire passings. Switch box : Switch box made of 1.2mm thick sheet metal for switch plate mounting suitable for anchor roma plates. Front clad Mounting : Front clad mounting made of 18mm thick Pre-Laminated twin Board with sheet metal cover and bracket for holding on to top and mounting box for holding of clad with seat side clad. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.</p>				
18.1	2 Seater Middle Module - 1374mm(L) x 1080mm(D) x 890mm(H)	90	each		
18.3	3 Seater Middle Module - 2044mm(L) x 1080mm(D) x 890mm(H)	60	each		
19	H.O.D. Room Sofa				

	Providing and placing of Sofa's with Seat Height of 450mm. Seat shall be made of PU foam with density 32+/-2Kg/m ³ with two additional top layer of PU Foam with Density 28+/-2Kg/cu. Mtr. Sea is upholstered with fabric and Back shall be made of PU foam with density 28+/-2Kg/m ³ with two additional top layer of PU Foam with Density 23+/-2Kg/m ³ . Seat is upholstered with fabric/leatherite as per approval of Engineer-in-charge. The Understructure shall be made up of 1.2+/-0.1cm thick Hot pressed plywood. Spring assembly of 4mm Dia is mounted in understructure for support and additional cushioning purpose. Legs shall be provided made of Stainless Steel (Grade SS 202). Its is a welded assembly made by the combination of Tube and Plate. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.				
19.1	3 Seater Sofa of overall size 2055mm(L) x 920mm(D) x 820mm(H)	1	Each		
19.2	2 Seater Sofa of overall size 1460mm(L) x 920mm(D) x 820mm(H)	1	Each		
19.3	1 Seater Sofa of overall size 860mm(L) x 920mm(D) x 820mm(H)	1	Each		
20	Associate Professor Sofa				
	Providing and placing in position Sofa. Sofa should be have Left Hand /Right Hand side frame fitted to the two ends of the Seat/Back mounting frame to form the leg assembly. It is made of SS J4 Grade tube dia 44.4mm x 1.5mm thick. The Seat/Back mounting frame assembly holds the two side frames together. The mounting frames, 2nos shall be used to connect the side frames. The mounting frame shall be made of MS. E.R.W. tube dia.5.08+/-0.3cm x 3.15+/-0.0252cm thick black painted. The Seat/Back shall be mounted on 4.0+/-0.03cm x 2.0+/-0.02cm x 0.2+/-0.016cm thick MS rectangular tube which are welded on the beam of Seat/Back mounting frame. The Seat/Back assembly consists of 12mm thick plywood insert with Polyurethane foam having density = 45 +/- 2 Kg/cm ³ and hardness of the P.U. foam = 18 to 22 Kg on Hampden m/c for 25%compression of the foam. The complete moulded Seat/Back assembly shall be covered with a replaceable fabric upholstery cover. The side frames shall be fitted with front and rear bottom shoes made of injection moulded polypropylene. The sofa shall be upholstered with stain repellent Velveteen plus/leatherite fabric. The velvet/leatheirte fabric can be vacuum cleaned in order to remove dirt & grit from the fabric surface. Upholstery covers made from Velveteen fabric/Leatherite . The product should be complete and as per approved sample and as per the direction of Engineer-In-charge				
20.1	3 Seater Sofa of Size: 1830mm (W) x 775mm (D) x 740mm (H).	10	Each		
21	H.O.D. Sofa				

	Providing and placing of Sofa's with Seat Height of 450mm. Slab stock foam with density 28+/-2Kg/m3 at seats and cushions. Seats and Cushion is also provided with 100% hollow recron fillers for extra comfort. Sofa structure consists of Tropical Wooden frame at the bottom on which S-Springs and Tie bars are provided then the complete structure is provided with layers of Non woven fabric, 2 Layers of Slab Stock Foam and finally recron is assembled together to form the final sofa. Seat and Cushions is upholstered with Black PVC Leatherite upholstery, Spring assembly of 4mm Dia is mounted in understructure for support and additional cushioning purpose. Legs shall be provided made of Stainless Steel (Grade SS 202). Its is a welded assembly made by the combinatin of Tube and Plate. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.				
21.1	3 Seater Sofa of overall size 2000mm(L) x 820mm(D) x 650mm(H)	1	Each		
21.2	1 Seater Sofa of overall size 830mm(L) x 820mm(D) x 650mm(H)	1	Each		
	STORAGE				
22	Book Case				
	Providing and supplying 4 Door Bookcase of size 910mm(W) x 320mm(D) x 1740mm(H). It has Rigid Knock down construction and Prime Quality CRCA Steel -Top, Back & Side Panels shall be made from 0.7mm high yield strength CRCA & rest in 0.8mm CRCA. Each Door has 6 Lever Cam lock with common key. Each Door has 3mm thick transparent glass for clear inside vision secured in a Metal Frame through rubber gasket. Each door shall have a Scissor mechanism for receding inside the top of respective compartment & ensures parallel & smooth movement. Each door shall have plastic side end caps as Handle which shall be for easy to grip, each compartment shall have a storage shelf with Uniformly Distributed Load Capacity per each shelf shall be 40 Kg maximum. The finish shall be Epoxy Polyester Powder coated to the thickness of 50microns (+/-5 micron). The product should be complete and as per approved sample and as per the direction of Engineer-In-charge	25	each		
23	VERTICAL FILE CABINET				
	Providing and Placing of 4 Drawer Vertical Filling Cabinets. The Overall size is Width: 470mm Height: 1320mm Depth: 620mm. It is a Rigid Knock Down Construction made from CRCA MS 0.7mm Thick (Top, Side & Drawer Front); 0.6 mm Thick (Frames, Drawer- Inside Cover, Side Back Side) 0.5mm Thick (Back, Bottom, Drawer Bottom), Drawer front: Easy to grip Full length Handle recess integrated into Metal Drawer fronts, Label Holder Snap on type plastic label holder on Drawer Fronts, Drawer Size & Files type · For hanging 'Ezee' / 'Visa' files (Foolscap) from front to back (Files Along the Width)· No. of 20mm thick file which can be hanged in above way per drawer is 28. Locking & anti-tipping arrangement : Centralized locking with 10 lever Cam Lock & having anti-tipping arrangement to ensure that when one drawer is opened for use, it does not allow other drawers to be opened, Slide High quality precision ball slide. Drawer Load: 40 kg. UDL for 75,000 cycles. Triangular Plate Plain Triangular plate pop riveted at the bottom corners for rigidity. Finish: Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10). Colour & shade etc complete as per approved sample and as per the direction of Engineer-In-charge	5	each		

24	Periodical Display Rack/News Paper Rack				
	Providing and Placing Periodical Display racks. Overall Product Size shall be 900mm (W) x 450mm (D) x 1830mm (H). Construction & Material shall be Rigid Knock down construction made from Prime Quality CRCA Steel having Panels of 0.6mm thick & Front frame 0.8mm thick. Each Rack consists of 5 Level Racks. Each level shall be provided with aesthetically appealing Metal tray at an angle for easy viewing and receding facility to access the storage behind. Metal/Display Trays shall be provided of suitable size for Full scape size magazines, periodicals. Sliding on plastic rollers having Storage facility behind these Shelving Each shelf has a Uniformly Distributed Load Carrying Capacity of 40 Kg minimum. Screw type leveller with hex plastic base (add in unit height minimum 8mm & additional 5mm maximum for adjustment). All the metal parts shall be Epoxy Polyester Powder coated to the thickness of 50microns (+/-10). The product should be complete and as per approved sample and as per the direction of Engineer-In-charge	2	Each		
25	STEEL STORAGE ALMIRAH				
	Providing and placing metal storage. The overall size of the storage shall be 916mm (W) x 486mm (D) x 1980mm (H). The construction shall be welded construction with 0.7mm thick CRCA for shelf and 0.8mm thick for back. The door shall be made of 0.8mm thick CRCA and all other metal component shall be made of 0.9mm thick CRCA. The locking and handle of the storage shall be mazak handle with three way locking mechanism. The almirah should have 2 welded Legs of 75mm Width and 125mm Height made up of 1mm thick galvanized sheet which acts as a understructure of the storage. The shelving shall be height adjustable and shall have a load capacity of 40kg. The product shall be epoxy powder coated to the thickness of 50 microns as per sketch for item. The product should be complete and as per approved sample and as per the direction of Engineer-In-charge.	10	each		
				Total	

Executive Engineer
DTU, Bawana Road, Delhi-110042