



**NATIONAL INSTITUTE OF TECHNOLOGY,
WARANGAL – 506004 TELENGANA (INDIA)**

Tender Notice No. NITW/CS-1/2019-20/

Date: 29-04-2019

**1. INVITATION FOR TENDERS FOR SUPPLY OF
FURNITURE ITEMS**

Established vendors with proven track record and experience of 05 years in the supply of concerned items are invited to submit their most competitive bids on or before **30-05-2019 at 10.00 AM**. The bids are to be sent in a sealed envelope super scribing the **Reference No. & Name of the item clearly on the envelope** addressed to

**TENDER BOX,
C/O DIRECTOR,
NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL - 506 021 (T.S.)**

Important Dates:

1.	Pre-Bid Meeting	on 09-05-2019 at 11.00 am
2.	Tender Opening	on 30-05-2019 at 10.30am

The bids will be opened in the presence of the bidders or their authorized representatives “**along with the authorization letter**” who choose to attend as per the terms and conditions mentioned below. No bid will be accepted after the due date and time. Even if accepted will be returned unopened.

Interested eligible bidders may download the set of bidding documents and formats given as Annexures etc. from our website: www.nitw.ac.in. The payment towards the cost of the tender documents and EMD or BG shall be made in the form of Demand Draft obtained from any **Nationalized/schedule Bank** in favor of “**Director, NIT Warangal**” or **by way of Bank Guarantee (BG)**. **The format of B.G is enclosed as annexure-VI**. EMD on any other firm will not be accepted. The offer without tender fee/cost of documents & EMD will be rejected summarily.

Cost of Tender Documents: The cost of the tender schedule is Rs. **1,000/- + GST @ 18% = 1,180/-**

whether the offer is for one or all.

Item No.	Name of the item	Qty. (Approx.)	EMD Rs.
1	Furniture items	252-270	50,000/-
1.15	Modular Seminar Hall Tables		

The Institute GSTN/IEC details are as follows.

GST No.	36AACAN7241H2ZK
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I. GENERAL CONDITIONS OF CONTRACT (GCC):

- (1) **Validity of the offer:** The Offer shall be valid for **90** days from the date of opening.
- (2) **Clarification of bids:** During opening or evaluation, the purchaser may at its discretion, seek the required clarification from the bidders. However, no change in prices or substance of the bid shall be sought, offered or permitted. If the bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity. Unsigned communication/ bids will not be accepted and will be rejected summarily.
- (3) **EMD:** EMD for the specified amount shall be submitted along with the offer in the form of Demand Draft or BG obtained from any **Nationalized/schedule Bank** in favour of “**Director, National Institute of Technology Warangal**”, Payable at Warangal. For details refer corresponding specification sheet (SCC).

No interest will be paid on the EMD. The EMD will be forfeited, if the supplier withdraws his tender during the validity period of the bid. Offer without EMD and tender fee will be rejected summarily.

- (4) **Prices:** The price quoted shall be on FOR Destination basis, i.e. the price shall include installation & commissioning, Standard Warranty period of ONE year or as specified in the SCC as specified in the Specification sheet packing, forwarding, freight and all taxes & duties, insurance, etc. However, the quote should indicate the basic price, discount, other duties/taxes and levies separately as per the Format under the heading **FINANCIAL BID** is enclosed as Annexure-II to this bid document. Concessions extended to Educational Institutions, if any shall be mentioned in the offer.
- (5) **Payment:** Payment will be made through RTGS/NEFT upon receipt of ordered item and its satisfactory performance and on production of bank guarantee at the rate of 10% of the order value wherever applicable.
- (6) **Evaluation:** Evaluation of the Bids shall be made strictly in terms of provisions and criteria disclosed in the bidding document for the quantities mentioned in the bid. However, the Institute reserves the right whether to purchase the total quantities or in part thereof.

Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotation, cancel the bidding process and reject all quotations at any time prior to the award of the contract. Also, the Director reserves the right to cancel the purchase order if the firm fails to comply with the delivery schedules without any notice and bid security/EMD will be forfeited accordingly.
- (7) **Delivery period:** The ordered item shall be delivered within 04-06 weeks from the date of Purchase Order or opening of FLC as applicable or on mutually accepted date and terms.
- (8) **Liquidated Damages:** The Institute reserves the right to impose ‘LD clause’ if the supplier fails to perform the contract within the specified period and can even terminate the contract on the whole or in parts thereof.
- (9) **Security deposit:** The successful tenderer will have to deposit @ 5% of the order value within 07 days of issuance of LOI/order towards security deposit. Else the offer is liable for rejection and the EMD will be forfeited.
- (10) **Performance Security:** The Institute reserves the right to insist for performance security @ 10% of the order value towards warranty obligations.

- (11) **Inspection and tests:** The purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the purchaser prior to the goods shipment. The Inspection and test certificates shall accompany the goods/invoice.
- (12) **Sample:** samples shall be provided by the supplier at the entire cost and risk of the supplier.
- (13) **Defective material:** The defective material/samples from premises of NIT Warangal will be lifted at the entire cost & risk of the firm and the defective material will be lying at their own risk and cost.
- (14) **Packing:** Each package shall have marked with (i) Order No., (ii) Reference number of the packing list and (iii) supplier's name on three sides of the package with proper paint/indelible ink.
- (15) **Delivery and Documents:** Upon delivery of goods, the supplier shall notify the purchaser and Insurance company by fax the full details of the shipment like contract No., description of the goods, quantity and name of the consignee etc., Also, the supplier shall mail copies of the documents like, Supplier's Invoice, RR/LR, packing list, insurance certificate, warranty certificate and inspection certificate issued by the concerned agency/factory etc.,
- (16) **Corrupt or Fraudulent practices:** The bidders shall observe the highest standard of ethics during the whole transaction. Contrary to the above the offer will be rejected for award of contract and firms will be declared as ineligible even for further period as deemed fit by the Institute.
- (17) **JURISDICTION:** The Courts of Warangal alone will have the jurisdiction to try and any matter dispute or reference between the parties arising of this agreement/contract.
- (18) **Indexing the bid documents:** All pages of the Bid Documents shall be numbered and the first page shall be the table of contents. (Format enclosed as Annexure –I) to this bid document) and the last page shall be the declaration certificate (format enclosed as Annexure – VII)

In addition, the Special Conditions of Contract (if mentioned along with the specifications of the item) shall supplement these General Conditions of Contract. Wherever there is a conflict, the provisions mentioned in the SCC shall prevail over these General Conditions of Contract.

Please note that the institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without thereby incurring any liability to the affected Bidder or bidders.

Signature
Name: _____

Designation: _____
of the competent authority of the

Date & Seal
firm

SPECIAL CONDITION OF CONTRACT:

1.15. SPECIFICATION FOR MODUAR SEMINAR HALL TABLE

Qty.: Seating Capacity 252 to 270 Nos.

1. Scope of Works

The scope of works mainly consists of supply, erection, testing and commissioning of furniture and all service outlets as shown in the drawings. The services from the reservoirs will be brought to different pick-up points in the lab room by the main contractor from where the specialist furniture manufacturer will connect to the outlets on the benches.

2. Seminar Table

Seminar table will be made of 24mm thick melamine laminated worktop and 50mm thick heavy duty rectangular steel leg. The size of the steel leg is 400 x 50 x 726 mm.

3. Rectangular Steel Leg

Heavy duty rectangular steel leg will be made of appropriate sections as given below made of cold rolled mild steel of minimum thickness of 2.5mm.

All Steel legs will be made of cold rolled mild steel of minimum thickness of 2.5mm.

Cold Rolled Mild Steel has been rolled at room temperature, below its re-crystallization temperature. This increases its strength and hardness and decreases its ductility. In addition to improvement of mechanical properties, cold rolling results in more control over the shape and dimensions of the finished product.

Cold Rolled steel has an improved surface finish and tighter tolerances compared to hot roll steel. It is commonly used for parts requiring, laboratory furniture, and such cold forming as crimping, swaging or bending. It can also be used for shafts, machinery parts, bolts, pinions and gears, as well as in the creation of appliances and other consumer goods.

Cold Rolling increases the yield and tensile strengths, often, eliminating further costly thermal treatments

Turning gets rid of surface imperfection

Grinding narrows the original size tolerance range

Polishing improves surface finish

3mm Thick MS Cold Rolled Steel legs provide a superior surface finish, and are superior in tolerance, load bearing, concentricity, and straightness when compared to lower thickness.

4. Worktops

Worktops will be made of WBP furniture grade plywood of 36mm, 30mm, 24mm or 18mm thickness and finished with high pressure vertical grade melamine laminate of 0.8mm thickness on top and counter balanced with same at bottom in same approved color. All edges will be finished with 2mm thick PVC edging or soft PVC edging bonded by means of hot melt glue at 205 degree Celsius in the factory. The lamination will be done with two component glue using hydraulic pressure system at required temperatures in the factory. The glue used will be solvent free.

Minimum Technical Standard Required for High Pressure Laminate

Test	Standard	Unit	Results
Resistance to surface wear	ISO 4586/II EN 438/IIC	Revs.	≥ 400
Resistance to boiling water		%	≤ 8
Resistance to staining		-	Groups 1-2=5
Resistance to dry heat 180 °C		-	No Alteration
Resistance to burn		Class	≥ 3
Resistance to color change in Xenon light		Blue wool scale	≤ 6
Transverse Electrical resistance	NFPA 99	Ohm	8 11
Resistance to fire	BS 476	Class	2

5. Plywood/Panel Joining Method:

We are using **Biscuit Joints Plates** to make effective end-to-end connections or join two panels together to achieve high quality finish and strength. Our Screw less connection technology meets global standard of quality and truly free from regular maintenance.

5.01 Steps:

- a) Mark the location of the Biscuits Joints Plates to be glued between the boards. Generally, the distance between biscuits will determine how strong the finished panel will be, and the biscuits will hold better if the spacing is kept to a minimum. 18mm nominal panel joins fairly well at twelve inch biscuit spacing; 18mm panel can be grooved at 20 to 22 mm on centre of the panel cutting edges for good results.
- b) Set the cutting depth of the plate jointer. For single row biscuits, will want to place the joints at the centre of the panel edge, for double rows, cut each row at one third of the panel thickness.

- c) Cut the biscuit slots with the plate jointer. Make sure the biscuit is secured or held tightly, as considerable force is required to push the blade into the work piece.
- d) Fill the slot about one fourth full of a good quality wood glue.
Press the pre-cut biscuits into the slot, and notice if excess glue runs over its edges. This excess can end up on the finished surface of work and can be easily removed after the glue is completely dried.
- e) Spread a small amount of glue along the edge of the panel you are mating to the one you have inserted the biscuits into.
Fill the respective biscuit slots one fourth full as you go.
- f) Fit the two panels together and make sure they are properly aligned. Then clamp them tightly and allow the glue to dry.
- g) Clean the finished side of your laminated panel when the glue has completely dried.

5.02 Advantages of Biscuit Joints:

Comparison between quick and easy biscuit joint, old fashioned doweled joint or mini fix.

Most woodworkers will tell you that it depends on the situation, and on what you are trying to achieve. Still, the two joinery methods are frequently held up to direct comparison. And when they are, a variety of opinions emerge, as happened recently on the Wood working.

“Biscuits are the stronger of the two joints and are absolutely the easiest to fashion. Since the biscuits do have some slop in the slots they do not have to be as precisely located as dowel holes...”

“Biscuits add a good deal of strength and they are more for alignment also, where the dowels will not add a good deal of alignment...”

“Biscuits, they are designed to keep joints from pulling apart. The cutter makes clearance to insert the biscuit and it allows for enough movement, that alignment is not guaranteed in dowels and mini fix”

6. Plywood.

All plywood to be of BWP/BWR GRADE as approved by the Engineer/Client.

SPECIFICATION OF PLYWOOD IS : 7102010			
1	GRADE OF PLYWOOD:	BWP/BWR GRADE	
	TESTS CARRIED OUT	SPECIFIED VALUE	OBSERVED VALUE
2	LENGTH WIDTH THICKNESS	2440 + 6 / -0mm 1220 + 3 / -0mm 16 +/- 5%	2442mm 1221mm 16.05 mm
3	EDGE STRAIGHTNESS SQUARENESS	0.2% 0.2%	0.10% 0.14%
4	MOISTURE CONTENT	5-15	9.00%

5	WATER RESISTANCE TEST RESIN CONFORMS TO IS:848 BWP GRADE	6 CYCLES (each cycle 8 hrs. Boiling & 16 hrs. drying)	Excellent
6	<u>GLUE SHEAR STRENGTH:</u> (a) Dry State	Min. Ind-1100(N) Avg.-1350(N)	1310 (N) 1400 (N)
	(b) Wet State (After 72 hrs. boiling)	Min. Ind-800(N) Avg. 1000(N)	1020 (N) 1090 (N)
7	ADHESION OF PLYS	-	Excellent
8	<u>TENSILE STRENGTH:</u> a) Along the grain	42 N/mm ²	60.10 N/mm ²
	b) Across the grain	25 N/mm ²	34.85 N/mm ²
	c) Sum of both	84.5 N./mm ²	94.95 N/mm ²
9	<u>STATIC BANDING STRENGTH:</u> (a) <u>Modulus of Rupture</u> (i) ALONG THE GRAIN	50 N/MM ²	61.45 N/MM ²
	(ii) ACROSS THE GRAIN	30 N/MM ²	46.10 N/MM ²
	(b) <u>MODULUS OF ELASTICITY:</u> (I) ALONG THE GRAIN	7500 N/MM ²	7780 N/MM ²
	(ii) ACROSS THE GRAIN	4000 N/MM ²	4750 N/MM ²
10	WET BENDING TEST (a) <u>Modulus of Rupture</u> (i) ALONG THE GRAIN	25 N/MM ²	30.65 N/MM ²
	(ii) ACROSS THE GRAIN	15 N/MM ²	27.20 N/MM ²
	(I) ALONG THE GRAIN (ii) ACROSS THE GRAIN	3750 N/MM ² 2000 N/MM ²	4370 N/MM ² 2515 N/MM ²

7. Edge Band.

Lab furniture is made using engineered plywood. As such, the plywood is treated and made resistant to moisture by treatments. However, it is a natural tendency of plywood to absorb water and that cannot be changed completely – it can only be reduced. Edge banding protects the wooden panels in your furniture from moisture, thus reducing the effects of atmospheric humidity, liquid spills and such on the strength and durability of the wood.

7.01 **PVC for Edge Banding.**

Conventional carpenters use teak wood bands to cover raw edges. PVC, acrylic, wood, or wood veneer – all of these can be used to create an edge band tape. PVC is impermeable so it reduces water absorption by a much greater degree. Also, lab furniture comes in a much wider variety of colours and shades than real wood. PVC strips can be produced to match the exact shade and finish of your laminated

plywood panel, thus creating a seamless look. Also, as compared to real wood bands PVC is easier to use on curved surfaces.

PVC edge bands are impermeable

PVC edge bands come in varying shades and colors and can be custom made

It can be easily used on curved surfaces unlike real wood bands

7.02 Edge Banding process.

Essentially, an edge band is a thin strip of impermeable PVC that is cut to fit the size of a wood panel. It is then applied to the raw edge using a strong adhesive. A heat roller is then used to melt the adhesive and glue the edge band over the wood. The ends are trimmed flush and bent so that they cover the wood and do not have any sharp ends.

The machine that is used for this process is called an **Edge bender**. It does an amazing job of binding the strip to the wood, trimming the leading and trailing edges, trimming the top and bottom flush with the wooden substrate, scrape off any surplus glue and buff the finished edge to give a flawless finish.

7.03 Efficiency of Edge Bands glued to wood panels.

The most frequently used glue for edge banding is **PVAC (Poly Vinyl Acetate Chloride)**, or **PA (Polyamide)** hot-melt glues. These are pliable under high temperatures, and durable and tough under low temperatures. They dry clear, and most importantly are water-resistant. The edge banding process will result the panels have the best glue for edge band which will keep them from coming off and chipping easily.

7.04 Edge banding with hot melt adhesives (Jowat)

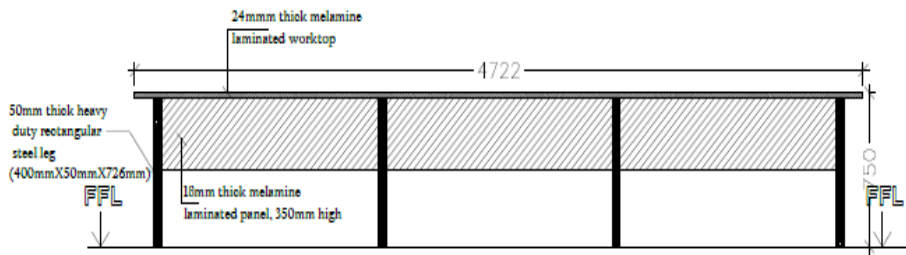
Edge banding of wood-based panels with a variety of edge bands has been an established practice in the furniture industry. The quality demands concerning visual appeal, the technological progress in engineering, and also the almost unlimited diversity of materials to be processed - all of these factors represent special challenges for the adhesive technology. In modern, high-quality furniture manufacture, the quality of the edge banding is increasingly becoming a key criterion for evaluating the quality of the entire laboratory furniture units.

8. Laminate Glue

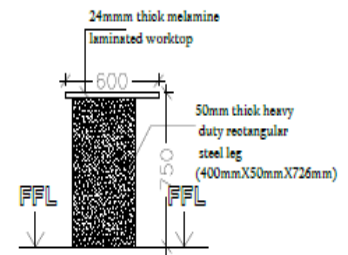
In laboratory furniture manufacture, wood-based panels are surface-laminated with the most diverse materials. Apart from resonated decor papers and veneers, of thermoplastic foils, CPL and HPL are frequently used. These materials are bonded using a variety of technologies which demand specific optimized adhesive solutions. Usually, the adhesive is applied by roller onto the base materials and pressing can be carried out subsequently with cold, but also with hot pressing methods.

9. Electrical Fittings

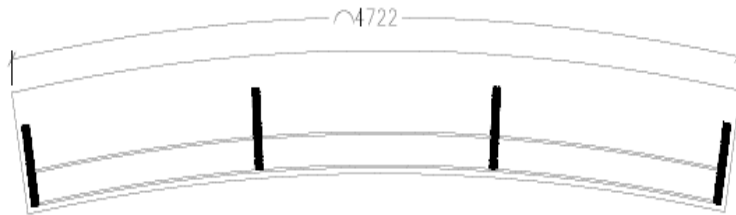
Electrical socket and switch will be from MK Brand
Cable Manager will be Ebco.



FRONT ELEVATION



SIDE ELEVATION

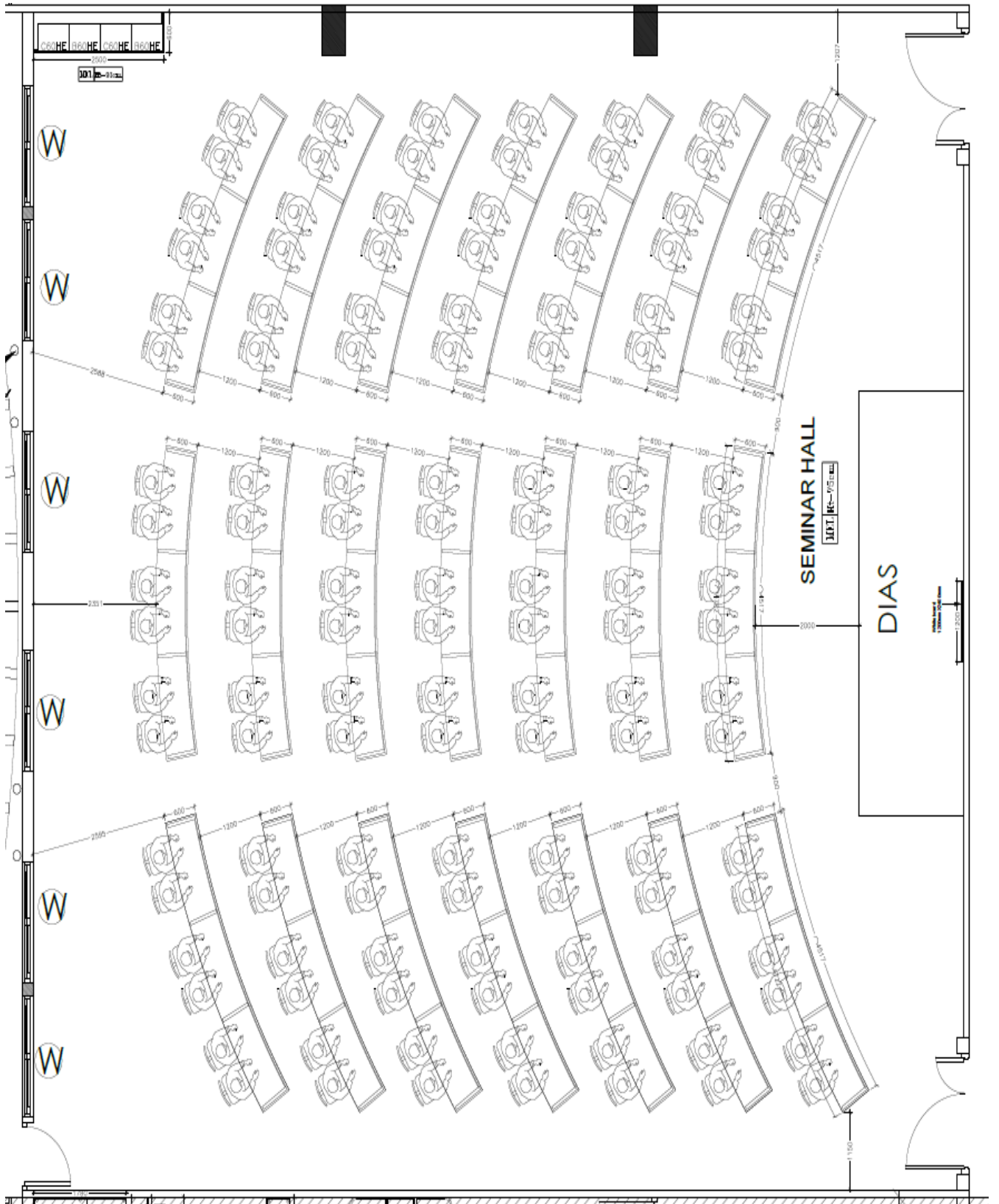


PLAN

MEL	Ht-75cm
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3D CONCEPT



EMD: Rs.50,000/-

Pre-qualification criteria:

1. Bids will be accepted from manufactures or their authorized Dealers/ Distributors only. Documentary evidence to this affect shall be enclosed.
2. Bids from authorized Dealers/Distributors shall be accepted provided they have a specific authorization certificate issued by the manufacture to Quote for NIT Warangal against the present Tender Notice i.e. NITW/CS-1/2019-20, dated 29-04-2019 (original copy shall be enclosed).
- 3(a). Annual Turnover of One Crore on the sale of New & Unused Furniture items for the three financial years 2015-16, 2016-17 & 2017-18 as per the format enclosed as Annexure-IV.

and

- 3(b). The firm should have sold worth of Rs.20.00 lakhs in one Single Order of modular computer lab tables at least in any one of the financial year i.e., 2016-17, 2017-18 or 2018-19. Documentary evidence to this effect shall be enclosed.
4. On compliance of pre-qualification, the sample shall be submitted within 07 working days. Further, the price-bid of those firms which satisfy the all criteria including the samples only will be opened.
5. Also, the Institute reserves the right to visit the firms for its eligibility criteria etc. at any time before placing in the Purchase Order as specified in SCC.
6. Declaration from the manufacturer with respect to material used in the item.
7. The samples shall be supplied on free of cost including transportation “to & fro”.
8. Delivery period: **04 to 06 weeks** from the date of release of Purchase Order.
9. Warranty: 03 year onsite Warranty.

Note: Financial Bid shall be submitted separately for each item in the sealed envelope cover as per the format enclosed as Annexure - III.

Signature

Name: _____

Designation: _____
of the competent authority
of the firm

Date & Seal

Annexure – I
(to be enclosed as age – 01)

Table of contents		
Sl. No.	Description	Page No.
01	Certificate regarding page numbering	02
02	Registration and Tax clearance certificate of the supplier issued by the competent authority.	
03	GST Registration Number with percentage of Tax without any concession. (a certified true copy shall be enclosed).	
04	Manufacturers Authorization Certificate if the offer is from a Distributor / Dealer (original copy shall be enclosed).	
05	Make and Model number of the item together with Technical Literature / Brochures / Catalogues for the item quoted and list of Clientele.	
06	Financial Bid in a separate envelope. The envelope shall be sealed and titled as Financial Bid for _____ (mention the name of the item) and shall carry the name and address of the firm. as per the format given	
07	Annual Turnover of the firm as per the format given	
08	Bank details of the Tenderer as per the format given	
09	Bank Guarantee (B.G) as per the format given	
10	Declaration Certificate (shall be the last page)	

Annexure -II
(Format for certificate of page numbering &
To be enclosed as page No.02)

(Shall be on Company's Letter Head only)	
<u>CERTIFICATE</u>	
Certified that this bid document is carrying _____ pages (in figures and words) and each page is numbered.	
Signature	
Name: _____	
Designation: _____	
Date & Seal	of the competent authority of the firm

Annexure – III
(Format for Financial Bid)

(To be enclosed in a separate envelope and shall be sealed. The Words ‘FINANCIAL BID’ shall be annotated on the enveloped)

(Shall be on the Company’s Letter Head only)

FINANCIAL BID

Name & Description of the item: _____

HSN Code No. _____

Basic Price	Discount	Packing & Forwarding	Freight	Taxes & Duties	Insurance	Any other cost*	Total Amount for Qty. ONE (inclusive of all) in INR
(1)	(2)	(3)	(4)	(5)	(6)	(7)	Figures and words*
				GST @ _____%			

* Each one in Figures (inclusive of all taxes) : _____

*In words Rupees _____

Gross Total(Inclusive of all): (Qty. X price for each one): in Figures: Rs. _____

In words: Rupees: _____

Signature

Name: _____

Designation: _____

of the competent authority of the firm

Date & Seal

Annexure-IV
(Format for Annual Turnover)

(Shall be on the Company's Letter Head only)

ANNUAL TURNOVER

Sl. No.	Annual turnover w.r.t. Furniture items			Remarks if any
	2015-16	2016-17	2017-18	
(1)	(2)	(3)	(4)	(5)

Certified that the authenticity of the above has been verified by me and are correct in all respects.

Signature

Signature

Name: _____

Name: _____

Designation: _____

of the competent
authority of the firm with seal

of the Chartered Account
with seal

The relevant documents are enclosed as Page Nos. _____

Certified copies of ITRs are enclosed as page Nos. _____

- Note : (i) Documentary evidence shall be submitted along with the format
(ii) Certified copies of ITRs of the above years shall be enclosed.

Annexure V
(Format for Bank details)

Bank details of the Tenderer for Refund of EMD & for making payment in case L-1

Name of the Beneficiary (fill in Capital Letter) As per Bank account															
Bank Account No. (Beneficiary)															
Name of the Bank:															
Name of the Branch:															
IFSC Code of the Branch															
Swift Code/BIC Code (if needed)															
PAN No.															
Mobile No.															
Email ID:															

Signature

Name: _____

Designation: _____
of the competent authority of the firm

Date & Seal

FORMAT FOR EMD BANK GUARANTEE

(To be submitted on non-judicial stamp paper of appropriate value purchased in the name of the issuing Bank)

1. Whereas
(hereinafter called the “tenderer”) has submitted their offer dated.....for the supply of
(hereinafter called the “tender”) against the Purchaser’s tender enquiry No.

2. KNOW ALL MEN by these presents that WE..... of having our registered office at are bound unto (hereinafter called the “Purchaser”) in the sum of for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this..... day of20.....

3. CONDITIONS OF THIS OBLIGATION ARE:

- (i) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (ii) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity: -
 - a. If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - b. Fails or refuses to accept/execute the contract.

4. WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

5. This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the authorized officer of the Bank)

.....
Name of the officer

.....
Designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

(Shall be on the Company's Letter Head only)

DECLARATION

I/we hereby solemnly declare and affirm that the above documentary evidence/declarations are true and correct to the best of my knowledge and beliefs. No part of it is false and nothing has been concealed therein.

Signature

Name: _____

Designation: _____
of the competent
authority of the firm

Date & Seal

PLEASE PASTE THIS SLIP ON YOUR ENVELOPE

Enquiry No. & Date: _____

Name of the Item(s): _____
(as mentioned in the Enquiry)

Due Date: _____

To

TENDER BOX
C/o. DIRECTOR
National Institute of Technology
WARANGAL -506 004 (T.S.)

From : _____

