

**NOTICE INVITING TENDERS**  
**(NATIONAL COMPETITIVE BIDDING)**  
**SHIVAJI COLLEGE, UNIVERSITY OF DELHI**  
**RING ROAD, RAJA GARDEN**  
**NEW DELHI -110027**

Online bids are invited on single stage two bid system for Supply of Furniture (desks, audi chair, chairs , table , computer table, storages, almirah , stools and white board) for the new academic block at the College campus. **MANUAL BIDS SHALL NOT BE ACCEPTED.**

2. **Document Download:** Tender documents may be downloaded from Shivaji College, University of Delhi web site - <http://www.shivajicollege.ac.in/tender.php> and CPPP site - <https://eprocure.gov.in/eprocure/app> as per the schedule as given in CRITICAL DATE SHEET as under.

**CRITICAL DATE SHEET**

<b>Published Date</b>	<b>As mentioned in CPP portal</b>
<b>Bid Document Download / Sale Start Date</b>	
<b>Pre-bid meeting Date</b>	
<b>Bid Submission Start Date</b>	
<b>Bid Submission End Date</b>	
<b>Bid Opening Date</b>	

**3. Bid Submission:**

**Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.**

Tenderer/Contractor are advised to follow “Instructions To Bidder for Online Bid Submission” provided in the Annexure “I ” for online submission of bids.

Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4. Not more than one tender shall be submitted by one bidder or bidders having business relationship. Under no circumstances will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate

competitor. A breach of this condition will render the tenders of both parties liable to rejection. Not more than one tender shall be submitted by any licensee / trust or societies / trusts having kinship relationships.

5. Tenderer who has downloaded the tender from the Shivaji College, University of Delhi website <http://www.shivajicollege.ac.in/tender.php> and Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app>, <https://eprocure.gov.in/epublish/app>, **shall not tamper/modify the tender form including downloaded financial Bid template in any manner.** In case if the same is found to be tempered/ modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with Shivaji College.

6. Intending tenderers are **advised to visit again** Shivaji College website <http://www.shivajicollege.ac.in/> and **CPPP** website <https://eprocure.gov.in/eprocure/app> **regularly till closing date of submission** of tender for any corrigendum / addendum/ amendment.

7. Applicant/ bidder must provide non-refundable demand draft of Rs. 3,000/- (Rupees three thousand only) with their application/downloaded tenders as the cost of tender forms/ documents in favour of **Principal, Shivaji College, payable at New Delhi,** issued by any Nationalized/ Scheduled Bank having validity for three months.

All applicable bank charges are to be borne by the applicant and the applicant shall have no claim what so ever on this account on Government. In case of re-tendering, the firms, which have submitted the Demand Draft (DD) in earlier calls will require to submit DD along with their tender/application in subsequent calls also. Tender not accompanied with the cost of tender documents is liable to be rejected. However, public sector undertaking / Govt undertaking firms are exempted from the payment towards cost of tender documents.

*Micro and Small enterprises (MSEs) Units registered with NSIC under their Single Point Registration Scheme for the goods/services at NSIC are exempted from furnishing Tender fee. They should furnish with the Bid (offline) a Notarized copy of the valid registration certificate issued by NSIC in their favors, for the goods/services covered under this Tender document. **No other bidders are exempted from furnishing Bid Security/ EMD as mentioned.***

### **EMD Payment:**

**Earnest Money Deposit of Rs. 1,00,000** is to be deposited through Demand Draft in favour of Principal, Shivaji College, payable at New Delhi. Bidders are required to submit the details of EMD (bearing no interest) payment at the time of Bid Preparation.

8. The **Hard Copy of original instruments** in respect of cost of tender document, earnest money, Undertakings , affidavit, audited Balance Sheet and Income Tax return for last three years must be delivered to the **Principal, Shivaji College, Ring Road, Raja Garden, New Delhi – 110027** on or before bid opening date/time as mentioned

**in critical date sheet.** Tenderer shall likely to be liable for legal action for non-submission of original payment instrument like DD etc., against the submitted bid. The Demand Draft attached/submitted for tender fee shall be non-refundable.

9. The bidders should have the **MINIMUM TURNOVER TWO CRORE (from similar nature of receipts)** in each of the last three financial years. The certificate from Chartered Accountant along with relevant proof for supporting the same shall be submitted.

**OR**

The Bidder should have experience **AT LEAST TWO ORDER NOT LESS THAN AMOUNT OF ₹ 20 LACS AFTER 01.01.2016** each in the Government Departments/ Corporates/ Societies / institution. *(Certified copy of award letter downloaded from e-procurement site with customer satisfaction report for the same shall be submitted)*

**OR**

The Bidder should have experience **AT LEAST THREE YEARS OF SUPPLY OF SIMILAR ORDERS AFTER 01.01.2016***(according to participation in tender)* in the Government Departments/ Corporates/ Societies / institution. *(Certified copy award letter with customer satisfaction report for the same shall be submitted)*

**AND**

Audited Balance Sheet and Income tax return for the last three years.

10. Bids will be opened as per date/time as mentioned in the **Tender Critical Date Sheet**. After online opening of Technical-Bid, the results of their qualification as well Financial-Bid opening will be intimated later.

11. The bidder at its discretion participates for all or any of items mentioned in technical specifications (**Annexure- II**). The Bidder shall place/fixed/put in/fitted the furniture items as per college authority directions.

12. The college with sufficient justification at its discretion to relax any of the condition/s mentioned in tender document and/or increase any criteria to short list the bidders during scrutiny of tender

13. The payment will be made (after keeping 10% as security) only after successful supply or/and installation of furniture subject to satisfactory report of committee.

14. **Security Amount (Performance Guarantee):** The College will retain 10% of

bill amount for the period of six months from the date of supply of furniture.

15. The quantities mentioned in BOQ are expected quantities of furniture based on yearly demand. The college reserves the right to order the quantity as and when required or not to order any of items during the contract period and reserve the right to order/select any option under each head of furniture items at its discretions.

16. **Penalty :-** In case of non-compliance of any terms & conditions of the agreement, the College reserves the right to impose penalty as deemed fit or/and forfeit security amount.

17. The **quoted amount** must be inclusive of basic price, installation charges, cartage, fitting charges, put-in charges, placement charges or any other charges/cost by whatever name called. *(GST will be extra as per applicable rate).*

18. The bidder shall provide at least five years warranty of furniture items supplied from date of supply or installation whichever is later.

19. The bidder(s) shall provide one sample of each items (as per annexure –II) during technical evaluation, if required by the college authority.

20 The college also reserves the right to award the contract more than one bidder for supply of furniture items.

21. The bid will be valid for the one year from the date of award of contract. Bidder will not be allowed to change bid amount during the contract period under any circumstances

22. The College reserves the right to cancel the tender at any stage without assigning any reason thereof.

  
PRINCIPAL

## **SUBMISSION OF TENDER**

**The tender shall be submitted online in two part, viz., technical bid and financial bid.**

All the pages of tender being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

### **TECHNICAL BID**

The following documents are to be furnished by the bidder along with **Technical Bid** as per the tender document:

- 1) Signed and Scanned Copy of Tender fee , EMD , GST certificate, PAN No. ISO Certificate etc.
- 2) Signed and Scanned Copy of Incorporation certificate shall be submitted. (partnership deed in case of partnership firm, Memorandum and Article of Association in case of limited company, ownership certificate in case of sole of proprietary firm and Power of Attorney in favour of authorized signatory in case the firm is not a proprietary firm, Registration certificate /Trade license certificate/ Enlistment certificate / Incorporation certificate in any Govt. deptt. / Statutory body / PSU).
- 3) Signed and scanned copy of supporting documents as mentioned at point 9 of tender document (Page No. 3).
- 4) Signed and scanned copy of Tender Acceptance Letter. (**Annexure -I**) and technical specifications (**Annexure –II**)
- 5) Signed and scanned copy of undertaking duly attested by Notary on a non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred Only) regarding tender specific authorisation from original equipment manufacturer (OEM) in the favour of Shivaji College and all technical specifications to be followed for manufacturing of all furniture items supply to the college. (**Annexure –III and/or IV**)
- 6) Signed and scanned copy of affidavit duly attested by Notary on a non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred Only) regarding five years warrantee period for the furniture items (as quoted in BOQ) to be supplied to the college. (**Annexure –V**)

**Note :-** *In case of non-submission of any of above mentioned documents, then the bid will be rejected at the initial stage.*

## **FINANCIAL BID**

- (a) Financial Bid undertaking
- (b) Schedule of price bid in the form of BOQ\_XXXX .xls

## **FINANCIAL BID UNDERTAKING**

From:

(Full name and address of the Bidder)

To,

The Principal

Shivaji College, University of Delhi

Ring Road, Raja Garden

New Delhi -110027

Dear Sir/Madam,

1. I submit the Price Bid for Tender for Supply of Furniture (desks, audi chair, chairs , table , computer table, storages, almirah , stools and white board) and related activities as envisaged in the Bid document.
2. I have thoroughly examined and understood all the terms and conditions as contained in the Bid document, and agree to abide by them.
3. I offer to work at the rates as indicated in the BOQ, inclusive of basic price, installation charges, cartage, fitting charges, put-in charges, placement charges or any other charges/cost by whatever name called.

Yours Faithfully,

Signature of authorized Representative:

### **Schedule of financial Bid in the form of BOQ\_XXXX.xls**

The Financial Proposal/Commercial bid format is provided as BoQ\_XXXX.xls along with this tender document at <https://eprocure.gov.in/eprocure/app>. Bidders are advised to download this BoQ\_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. **Bidder shall not tamper/modify downloaded financial Bid template in any manner.** In case, the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with the college.

**TENDER ACCEPTANCE LETTER**  
**(To be given on Company Letter Head)**

**The Principal,  
Shivaji College, University of Delhi  
Raja Garden, Ring Road  
New Delhi - 110027**

**Sub: Acceptance in respect of Terms & Conditions of Tender Document of  
“Supply of Furniture (desks, audi chair, chairs, table, computer table,  
storages, almirah , stools and white board)”**

**Ref: NIT NO- .....Dt. ....**

**Sir,**

- i. I/We have downloaded the tender document(s) for the above mentioned ‘Tender/Work’ from the web site <http://eprocure.gov.in/eprocure/app> .
- ii. I/We hereby certify that I/We have read all the terms and conditions of tender document (including all annexure(s), schedule(s), drawing(s), etc.), which shall form part of the contract and I/We shall abide hereby all terms & conditions contained therein.
- iii. The Corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.
- iv. I/We hereby unconditionally accept all the terms and Conditions of above mentioned tender document and corrigendum(s) as applicable.
- v. In case, any provisions of this tender are found violated, then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject my bid including the forfeiture of earnest money deposit.
- vi. I/We confirm that our bid shall be valid up to one year from the date of award latter.
- vii. I/We confirm that our bid as indicated in the BOQ is inclusive of basic price, installation charges, cartage, fitting charges, put-in charges, placement charges or any other charges/cost by whatever name called.
- viii. I/We hereby certify that all the statements made and information supplied in the enclosed Annexures and additional data etc. furnished herewith are true and correct.

- ix. I/We hereby certify that all technical specifications would be maintained during the contract period.
- x. I/We understand that you are not bound to accept the highest or any bid you may receive.
- xi. I/We understand that in case it is found that furniture items do not fulfill any of technical specification(s) then the college will not be liable to pay for the same.
- xii. I/We certify that comply with the eligibility requirements are as per tender documents.
- xiii. I / We do hereby declare that our Firm does not any relative in your institution.
- xiv. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking and no criminal legal suit pending or contemplated against us

**Seal and Sign of Agency**

Non-judicial stamp paper of value of Rs.100/-

**UNDERTAKING BY DEALER AGAINST TENDER NO.....DATED**  
**..... FOR SUPPLY OF FURNITURE**

We/I, M/s \_\_\_\_\_ (Name of the Dealer) having registered office at \_\_\_\_\_(address of the dealer) is authorized dealer of \_\_\_\_\_ (Name of the product/s), manufacture by M/s \_\_\_\_\_ (Name of the OEM copy attached) having their registered office at \_\_\_\_\_ (Address of OEM) to participate against tender No.....dated ..... for Supply of Furniture and provide after sales support for our range of products quoted by them to meet the requirements of above mentioned tender.

We/I have gone through the technical specifications in detail and agree to comply with the requirements and intent of specification while manufacturing desks, stools , chairs, tables, audi chairs and white board(strike out if not participating in tender).

We/I further undertake that our organization shall manufacture sample for each item of furniture and will provide sample for the same to the college as and when required by the college authority during the technical evaluation.

Authorized Signature & company seal

Name

Designation

Email

Mobile No.

**Annexure-IV**

**ORIGINAL EQUIPMENT MANUFACTURING (OEM)  
MANUFACTURING AUTHORISATION FORM  
(On Letter Head of Manufacturer)**

Tender No. :- .....

Date:- .....

To,  
The Principal  
Shivaji College, University of Delhi  
Ring Road, Raja Garden  
New Delhi -110027

Dear Sir/Madam,

We/I manufacturer of original equipment at (.....address of  
factory.....) do hereby authorize M/s  
.....(Name and address of Agent/dealer) to submit a bid and  
receive the order against your tender enquiry.

We/I have gone through the specifications, conditions and stipulations in detail and  
agree to comply with the requirements and intent of specification while manufacturing  
desks, stools , chairs, tables, audi chairs and white board(strike out if not participating in  
tender).

We/I further undertake that our organization shall manufacture sample for each item of furniture  
and will provide sample for the same to the college as and when required by the college authority  
during the technical evaluation.

Yours Faithfully,

Authorized Signature & company seal

Name

Designation

Email

Mobile No.

**Annexure-V**

Non-judicial stamp paper of value of Rs.100/-

**AFFIDAVIT**

We/I manufactures/supplier of original equipment/dealer at (.....address of factory.....) do hereby certify that our organization meets all technical specifications laid down in tender id..... for supply of furniture.

We/I agree to support on regular basis with technology / product updates, extend support for **FIVE YEARS WARRANTY**, and extend comprehensive support during the entire warranty period without extra cost to the college.

Authorized Signature & company seal

Name


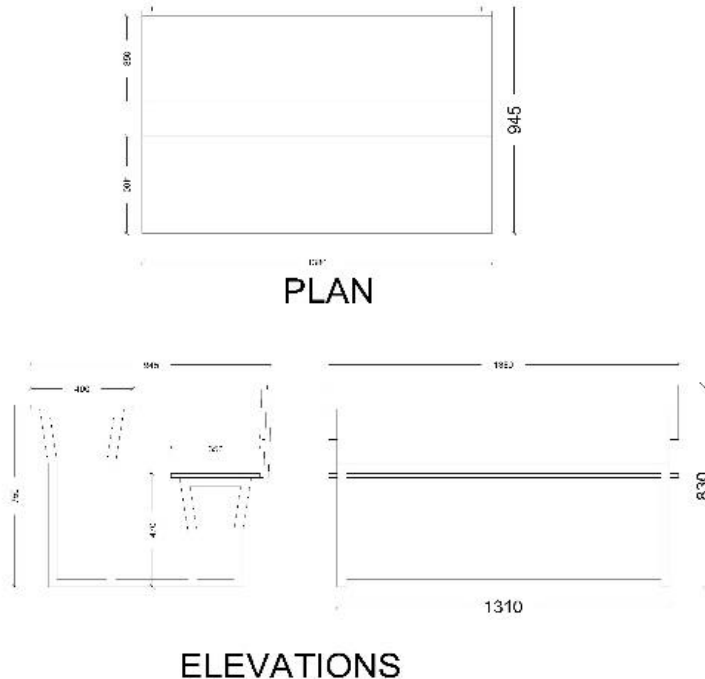
Designation

Email

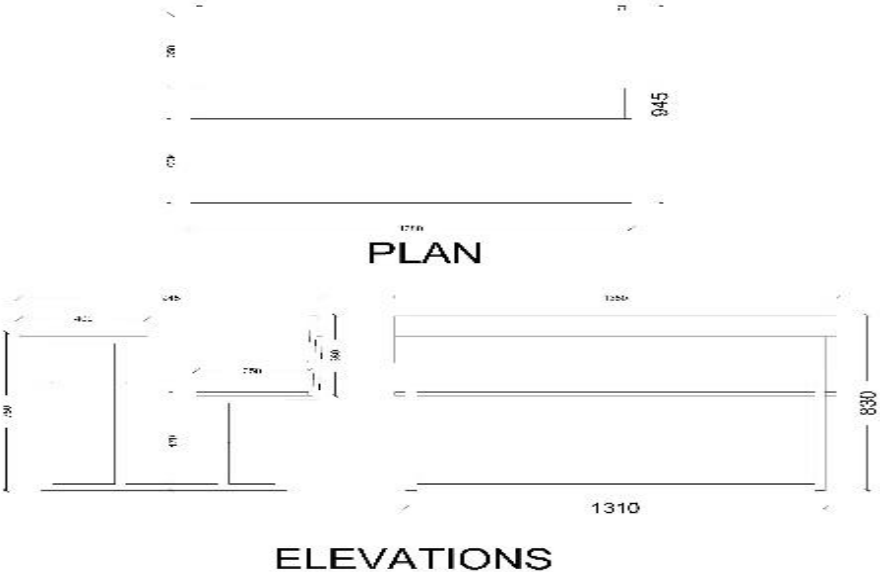
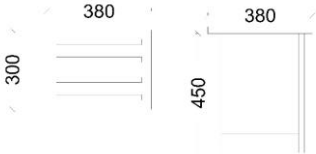
Mobile No.


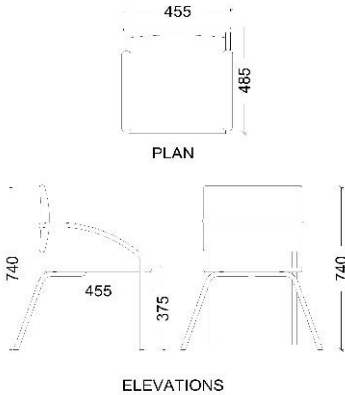

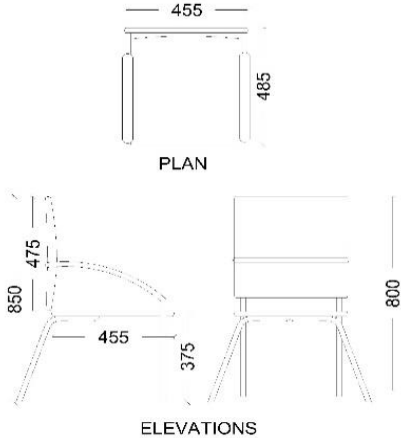
## **Annexure -II**


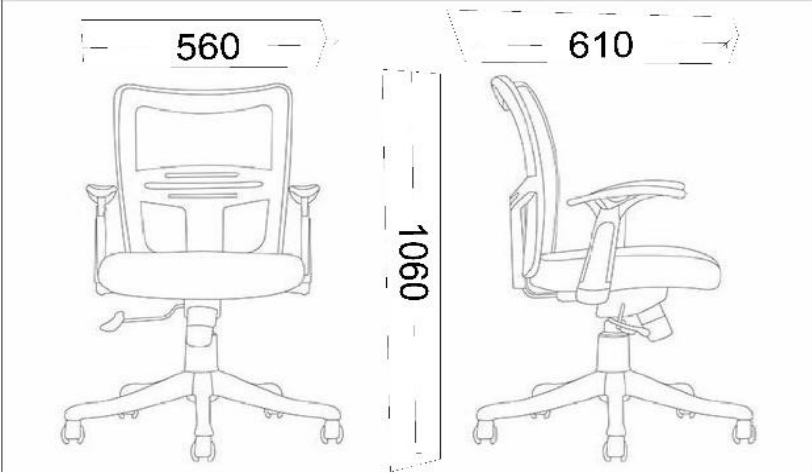
## **TECHNICAL SPECIFICATIONS FOR SUPPLY OF FURNITURE**

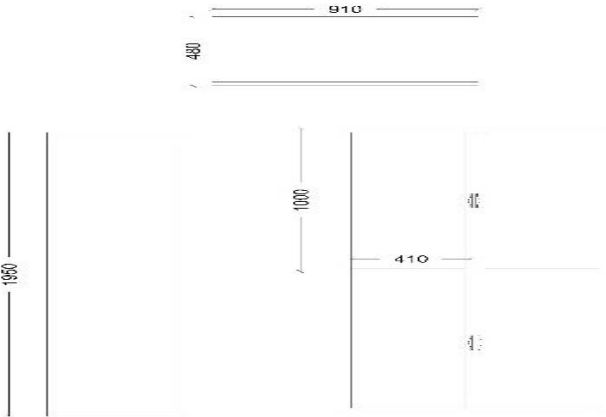
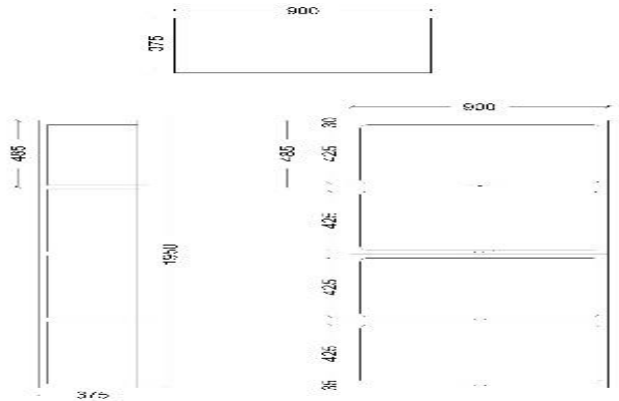
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
1	DESK				
	<p>OPTION 1</p> 	 <p>PLAN</p> <p>ELEVATIONS</p>	#		<p>OPTION 1</p> <p><u>TYPE:</u> Three seater</p> <p><u>DIM:</u> Overall size 1380mm X 980mm X 750mm. Writing top 1380mm(W) X 400mm(D), seat size shall be 1380mm(W) X 350mm(D), back size shall be 1380mm(W) X 200mm(H).</p> <p><u>MATERIALS:</u> Desk top &amp; seat - 18mm thick MDF laminated board with edges sealed with 2mm thick impermeable PVC, Side panel- CRCA rectangle pipe having cross-section area 40mm X 20mm with 1.2mm thick.2 nos. footstep shall be provided for structural support of the desk having cross-section area of the pipe 40mm X 20mm with 1.2mm thick. The complete steel structure shall be welded with base pipe having cross-section area 40mm X 20mm with 1.2mm thick and also be epoxy polyester powder coated to the thickness 50-60μ thick. There shall be shoe provided at the base to avoid scratches as well as uneven surfacing.</p>

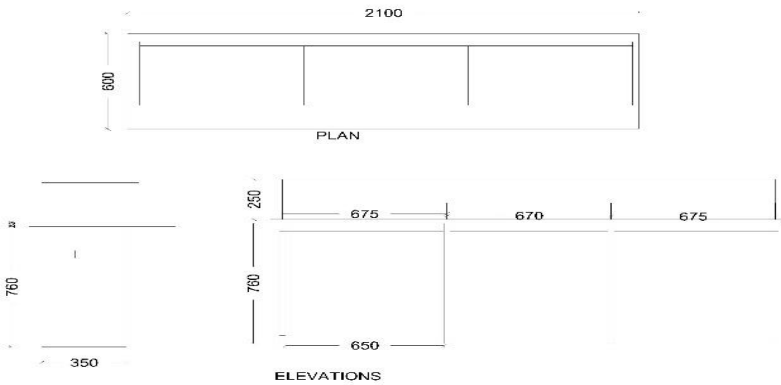
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
	OPTION 2	<p>PLAN</p> <p>ELEVATIONS</p>	#	200	<p>OPTION 2</p> <p><u>TYPE</u>: Three seater</p> <p><u>DIM</u>: Overall size 1380mm X 980mm X 750mm. Writing top 1380mm(W) X 400mm(D), seat size shall be 1380mm(W) X 350mm(D), back size shall be 1380mm(W) X 200mm(H).</p> <p><u>MATERIALS</u>: Desk top - 8mm thick polypropylene with smooth finish bench - 8mm thick polypropylene with grooves on it. The polypropylene sheets to be ribbed with the frame. FRAME - ERW rectangle pipe having cross-section area 25mm X 25mm with 1.2mm thick . .2 nos. footstep shall be provided for structural support of the desk having cross-section area of the pipe 40mm X 20mm with 1.2mm thick. The complete steel structure shall be welded with base pipe having cross-section area 40mm X 20mm with 1.2mm thick and also be epoxy polyester powder coated to the thickness 50-60μ thick. There shall be shoe provided at the base to avoid scratches as well as uneven surfacing.</p>


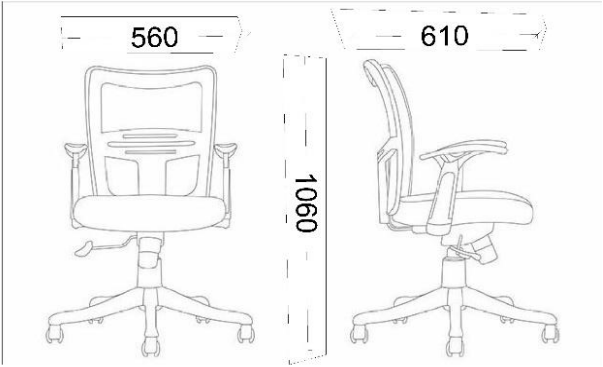

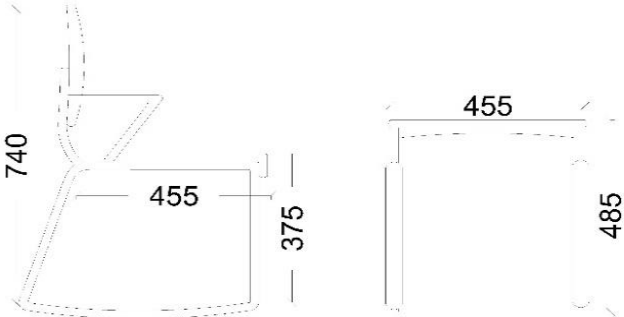
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
	OPTION 3		#		OPTION 3 TYPE: Three seater DIM: Overall size 1380mm X 980mm X 750mm. Writing top 1380mm(W) X 400mm(D), seat size shall be 1380mm(W) X 350mm(D), back size shall be 1380mm(W) X 200mm(H). MATERIALS: Desk top and seat - 25mm thick rubberwood with solid rubberwood backrest.
2	STOOL		#	197	<u>DIM:</u> 300mm(W)X300mm(D)X 450mm(H). <u>MATERIALS:</u> Poly propylene top ,bottom frame- 25mm sq pipe 16g &seat bottom frame -25X12 rectangular hollow pipe with 16g. <u>Finish:</u> Powder coated black.

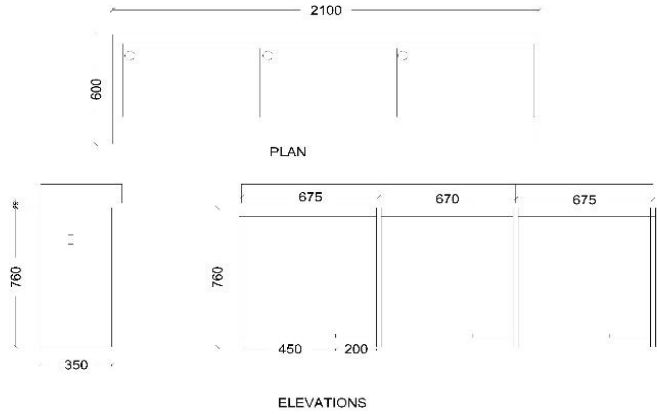
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
3	CHAIR				
	OPTION 1	 	#  #  #	81	<p>TYPE: Low back DIM: 455mm(w) X 455mm(D)X 750mm (H).25mm dia round hollow pipe 202 grade SS in 16g with seat made out of 35mm foam of density 40 kg/m3 made out of 457mm x 457mm and back made out of 25mm foam of density 32 kg/m3 made out of 406mm x 330 with wooden handle in polish finish.</p>
	OPTION 2	 			<p>TYPE: Medium back , DIM: 455mm(w) X 455mm(D)X 850mm (H).25mm dia round hollow pipe 202 grade SS in 16g with seat made out of 35mm foam of density 40 kg/m3 made out of 457mm x 457mm and back made out of 25mm foam of density 32 kg/m3 made out of 406mm x 330 with wooden handle in polish finish.</p>


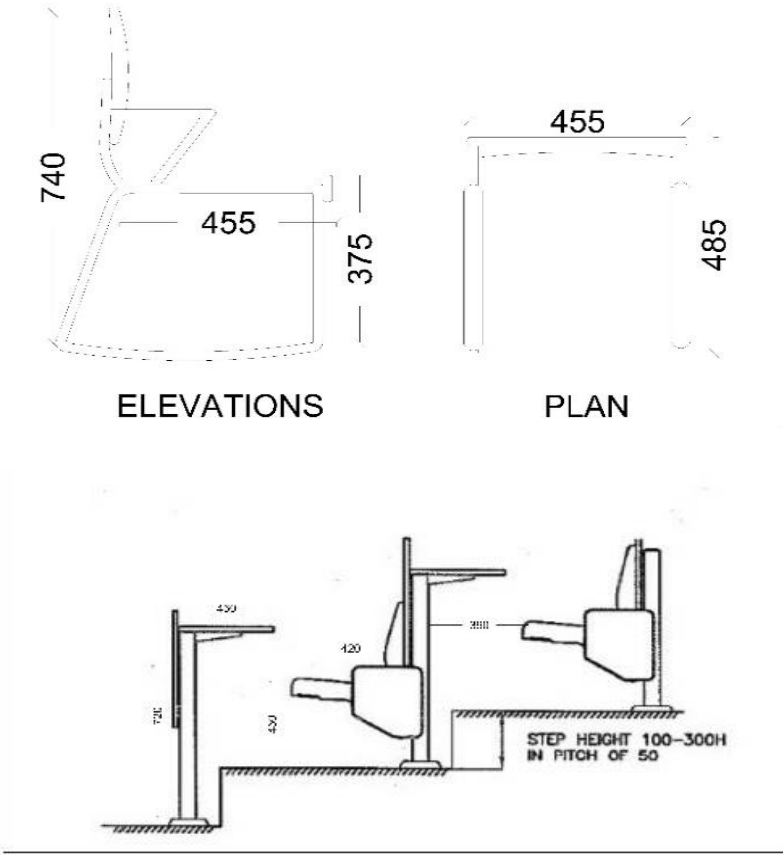
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
	OPTION 3 		#  #  #  #	55	DIM: width: 560 mm, depth: 610 mm, height: 889 mm, seat height: 425mm. Mid back General purpose revolving chair made up of thick hot pressed plywood and polyurethane foam upholstered with foam laminated polyester mesh fabric and covered with bottom with injection modulated poly-propylene seat cover


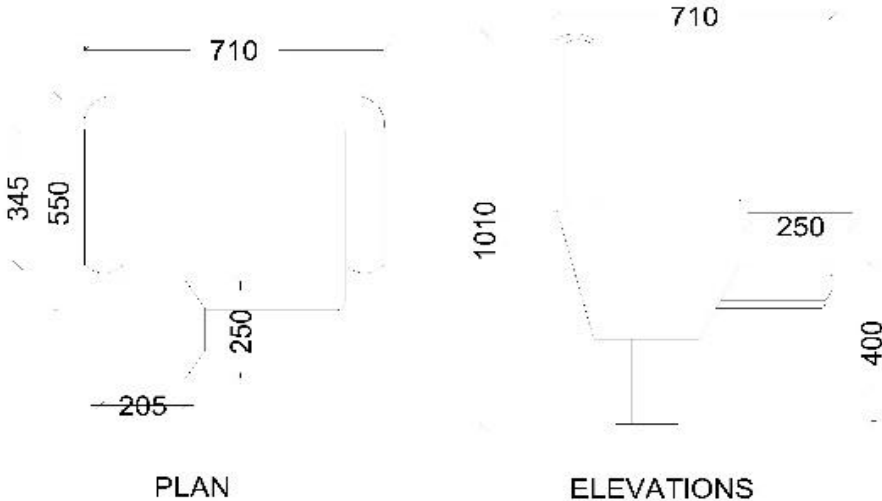
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
4	STORAGE				
	Option 1		#	12	SIZE: width: 480mm, length:910mm, height: 1950mm Steel almirah of 0.8mm thickness with two shutters hinged with the body. Shutters has four glass panels. There are 5 adjustable shelves.
	Option 2				SIZE: width: 480mm, length:910mm, height: 1950mm Steel almirah of 0.8mm thickness with 4 shutters hinged horizontally with the body. Shutters has four glass panels. There are 4 shelves.

S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
5	STAFFROOM TABLE				
			4	16	<p>SIZE: 480mm width, 2100 mm length, 1010mm height, TYPE : 3 SEATER</p> <p>Top: 18mm MDF laminated board with 2mm PVC edging the frame - ERW rectangular pipe of cross section 25 mm x 50 mm of 16g thickness.</p> <p>The separation is provided with glass members fixed onto the top of the desk using screws. 250mm panel of particle board is provided for pin up.</p> <p>The provision of pedestal unit with 3 drawers of size 400mm, 150mm and 150mm</p>

S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
5	COMPUTER LAB SEATER				
	OPTION 1				
			#	72	DIM: width: 560 mm, depth: 610 mm, height: 889 mm, seat height: 425mm. Mid back General purpose revolving chair made up of thick hot pressed plywood and polyurethane foam upholstered with foam laminated polyester mesh fabric and covered with bottom with injection modulated poly-propylene seat cover
	Option 2				
		 ELEVATIONS PLAN	#	105	TYPE: Low back DIM: 455mm(w) X 455mm(D)X 740mm (H).25mm dia round hollow pipe 202 grade SS in 16g with seat made out of 35mm foam of density 40 kg/m3 made out of 457mm x 457mm and back made out of 25mm foam of density 32 kg/m3 made out of 406mm x 330 with polish finish.


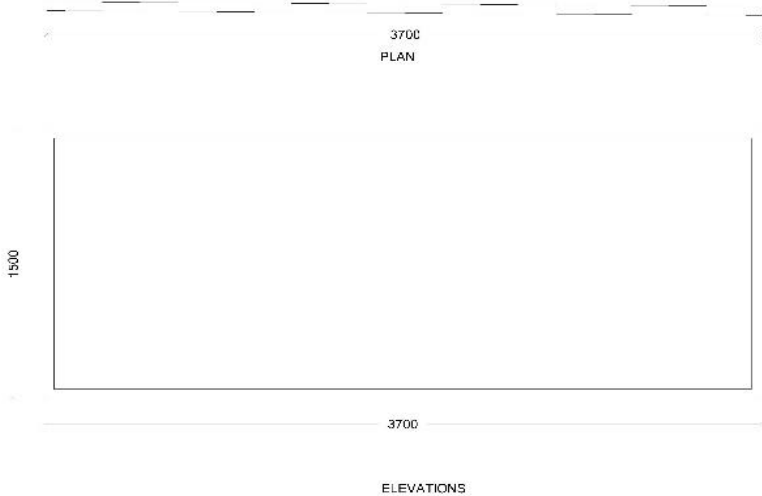
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
6	COMPUTER TABLE	 <p>PLAN</p> <p>ELEVATIONS</p>	#	34	<p>SIZE: 480mm width, 2100 mm length, 860mm height, TYPE : 3 SEATER Top: 18mm MDF laminated board with 2mm PVC edging the frame - ERW rectangular pipe of cross section 25 mm x 50 mm of 16g thickness. The separation is provided with glass members fixed onto the top of the desk using screws. 3 openings for the wires to pass through.</p>

S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
7	LECTURE THEATRE				
	OPTION 1	<div></div> <div></div>	#	240	<p>Legs:Legs are made of MS ERW tube section (IS7138) of size 75x25x2 mm thick oval tube with 5 mm thk HR brackets as per IS:2062 and 2mm thk CRCA brackets as per IS-513welded on to the tubes. Assembly is powder coated with epoxy polyester.Leg height varies from 705 to 1005 in pitch of 50 as per layout.</p> <p>-Sturdy anchoring by anchor bolts on to base of 8mm thk plate for proper resting of Leg</p> <p>-Shoe made of ultramid -Nylon are provided at the bottom for covering the base plate.</p> <p>Side clads:Two side clads made of) 8 mm this plate with 0.8mm thk pvc lipping and on the outside covered with welded metal structure made of 2 mm thk CRCA as per IS-513 powder coated with Epoxy polyester .</p> <p>Worktop:</p> <p>-Worktop are made of 25 mm thick Pre-Laminated Board of EI-P2 Grade and approved shade conforming to IS:12823:1990. All the edge of work surface are provided with machine pressed 2mm thick pvc edge band glued with hot melt glue.D)</p> <p>Seat:</p> <p>-Seat has self closing mechanism which will operate by means of dead weight .</p> <p>Seat understructure is made from combination of welded fabricated structure of 5mm Thk HR as per IS:2062 and 8mm thk ply as per IS:303 with moulded PU foam of density 55 kg/cu.mtr. on top which in turn is covered with stitched upholstery</p> <p>Seat assembly is covered on bottom side by means of seat cover made of pp.</p> <p>Seat back: is made from combination of 8mm thk ply as per IS:303 with moulded foam on top which in turn is covered with stitched upholstery foam back fabric.F) Seat Support Frame :</p> <p>-Seat support frame is made from combination of MS ERW tube section (IS 7138) of size 80x40x2.5 mm thick rectangular tube and MS ERW tube section(IS 7138) of size 48x19.1x2 mm thick oval tube welded together .</p> <p>Assembly os powder coated with Epoxy polyester.</p> <p>CAP made of ultramid are provided from front to cover the oval tubes.</p> <p>G) Modesty:Modesty is made of 25mm thick pre-laminated twin board of EI-P2 Grade and approved shade conforming to IS:12823:1990. All the edge of modesty are provided with machine pressed 2 mm Thiclc pvc edge band glue with hot melt glue.</p>

S.NO	REFERENCE IMAGE	DESCRIPTION	TOTAL QUANTITY	TECHNICAL SPECIFICATION
	OPTION 2 	 <p>The technical drawings include a Plan view and two Elevation views. The Plan view shows a rectangular seat with a width of 710 mm and a depth of 550 mm. The front edge has a height of 345 mm, and the side edge has a height of 205 mm. The Elevation views show the seat's profile with a total height of 1010 mm, a base width of 250 mm, and a backrest width of 400 mm.</p>		<p>Seat Construction: Seat construction PU padding with Structural Powder Coated ERW Tube frame made by 22.23 mm Diameter tube with 1.6 mm thickness as per IS :3074-2005 grade1, fabric Upholsteries with injection-moulded seat and back Plastic covers. Equip each seat with a self-rising Torsion Spring compensating mechanism as per IS : 4454 1981 grade 3 (part i) tested for 5,00,000 cycles. so that unoccupied seats return to an upright position perpendicular to the base line of floor of auditorium PU padding with 3 Layer 100% Yarn Dyed fabric Upholsteries with injection-moulded seat and back Plastic covers. The outer seat cover shall have a good exterior surface and internal moulded reinforcing ribs for a solid warp-free construction. Seat Cushioning to be Made by 45 +/- 3 Kg Density Polyurethane Foam shall be applied over the 7 Tank Powder coated Metal frame. Foam shall be fire retardant and conform to the California Bureau of Home Furnishings Technical Bulletin 117 to secure maximum safety in event of fire. The upholstery cover shall be sewn and fitted to the seat assembly with collapsible assembly rings and nylon tension cord.</p> <p>Back Construction: Back construction PU padding with Structural Powder Coated ERW Tube frame made by 22.23 mm Diameter tube with 1.2 mm thickness as per IS :3074-2005 grade1, fabric Upholsteries with injection-moulded seat and back Plastic covers. PU padding with 3 Layer 100% Yarn Dyed fabric Upholsteries with injection-moulded seat and back Plastic covers. The outer Back cover shall have a good exterior surface and internal moulded reinforcing ribs for a solid warp-free construction. Back Cushioning to be made by 45 +/- 5 Kg Density Polyurethane Foam shall be applied over the 7 Tank Powder coated Metal frame. Foam shall be fire retardant and conform to the California Bureau of Home Furnishings Technical Bulletin 117 to secure maximum safety in event of fire. The upholstery cover shall be sewn and fitted to the seat assembly with collapsible assembly rings and nylon tension cord.</p>

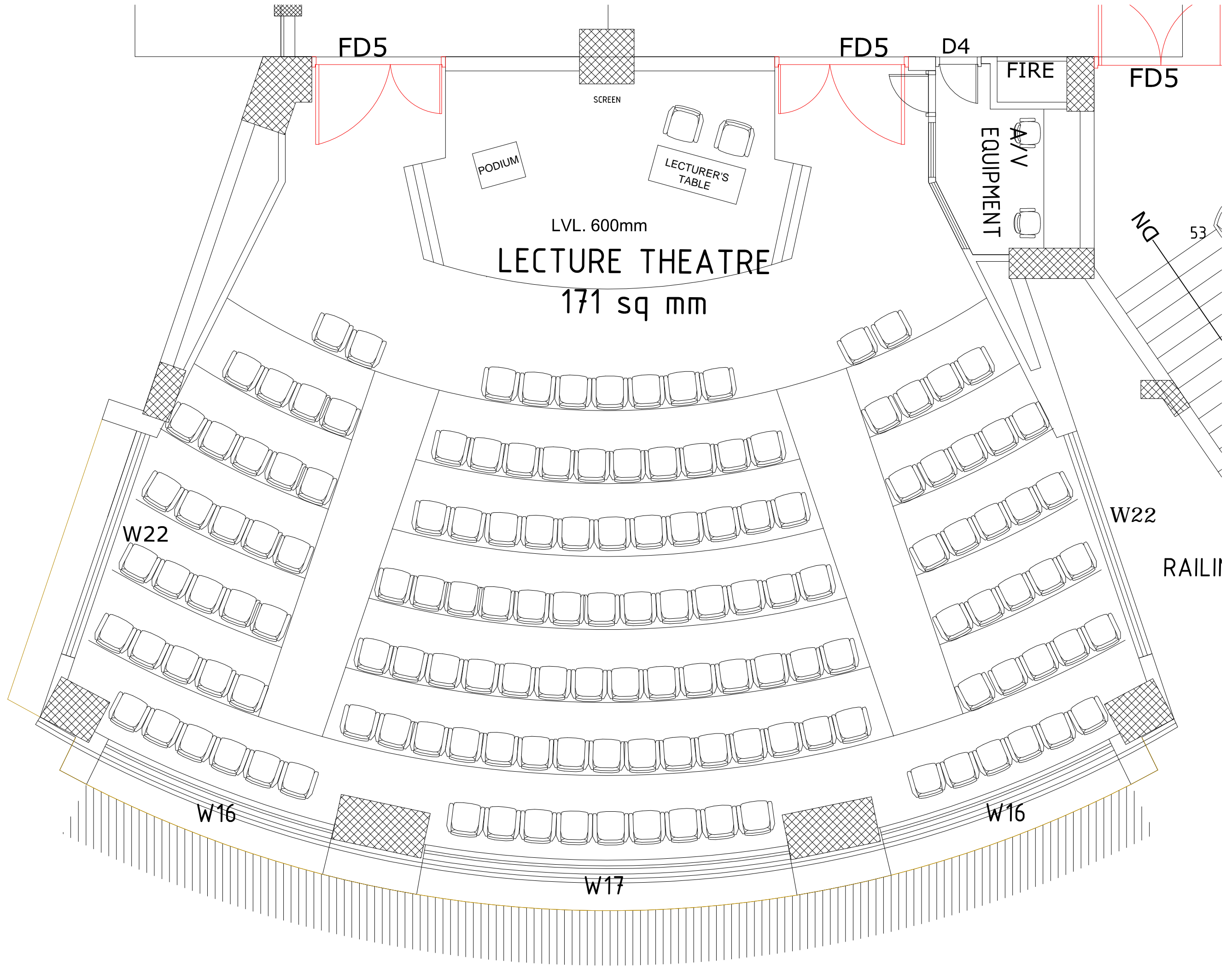
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
			#	145	<p>Metal Stands: Frame shall be 8 cm x 4 cm x 1.6 mm cold-rolled welded steel tubing; formed steel brackets welded into ne integral freestanding structure upon which the seat, back, and arms are assembled. Floor mount plate shall be .100” thick hot-rolled pickled in- oil steel mounting anchors. All Exposed Metal part need to do high quality of Powder coating of Black Matt Finish to prevent lustre.</p> <p>Armrest: Shall be Made out of Solid Wood as per finish approved by Employer. Openable armrest should be fixed with Legs by use off special Screw concealed hinge. No Screws should be visible while opening the armrest to pull out the writing pad.</p> <p>Writing Pad System: Plastic or PLB Writing Pad should be provided in such a way that it gets Concealed when not in use. Writing pad Mechanism made by dual hinge point that allow user to park the writing pad under the armrest. Hinge should be Made up by aluminium Die cast junction block of 8-10 mm thickness duly powder coated. Writing pad Arm should be made up by ERW tube as per IS :3074-2005 grade1.</p> <p>Hinge: The Seat portion should have the proper hinge through a Axel of 1.4 cm dia Solid Metal Bar to have proper seat movement. SIZE: 710mm length, 550mm width,1010mmheight</p>

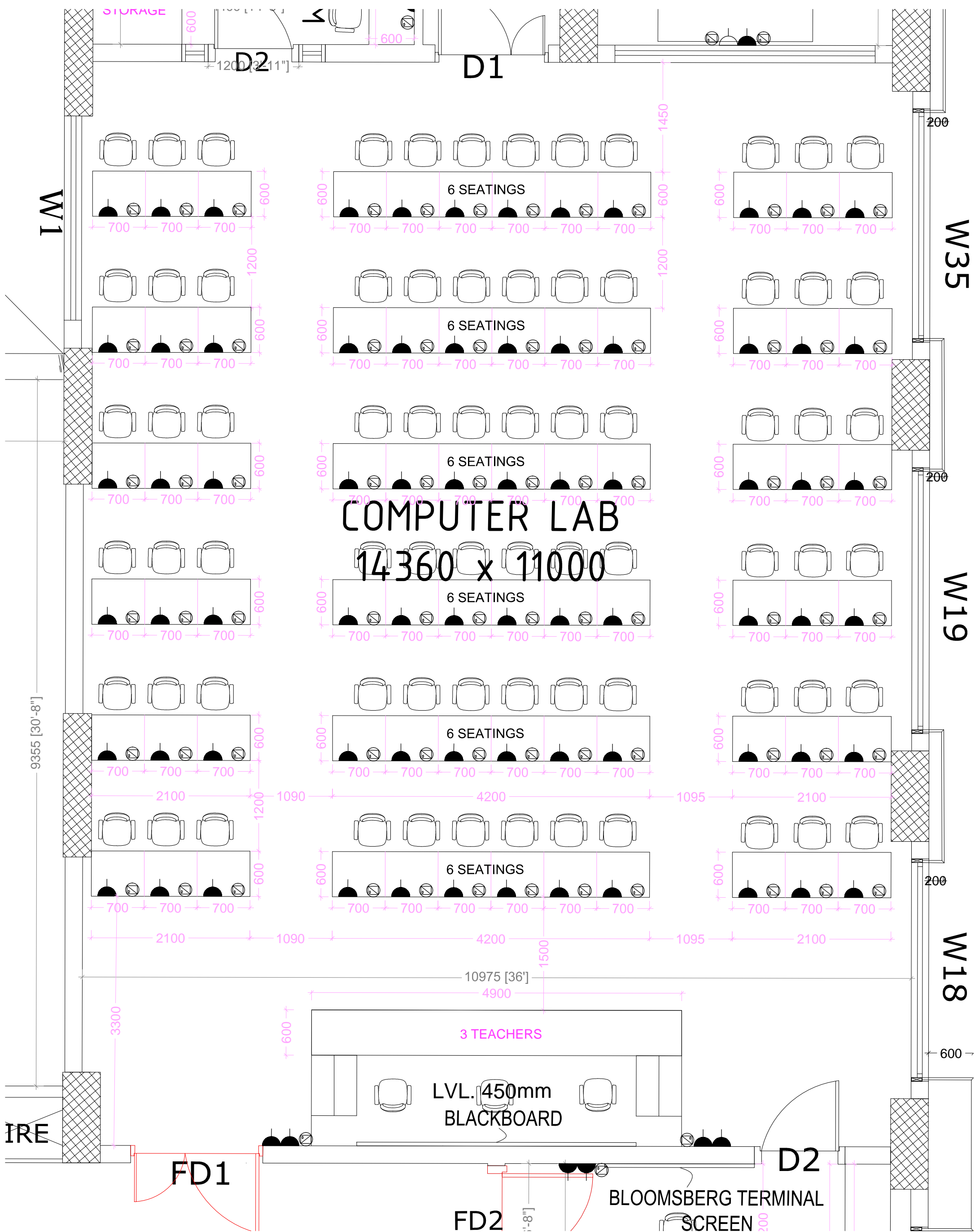


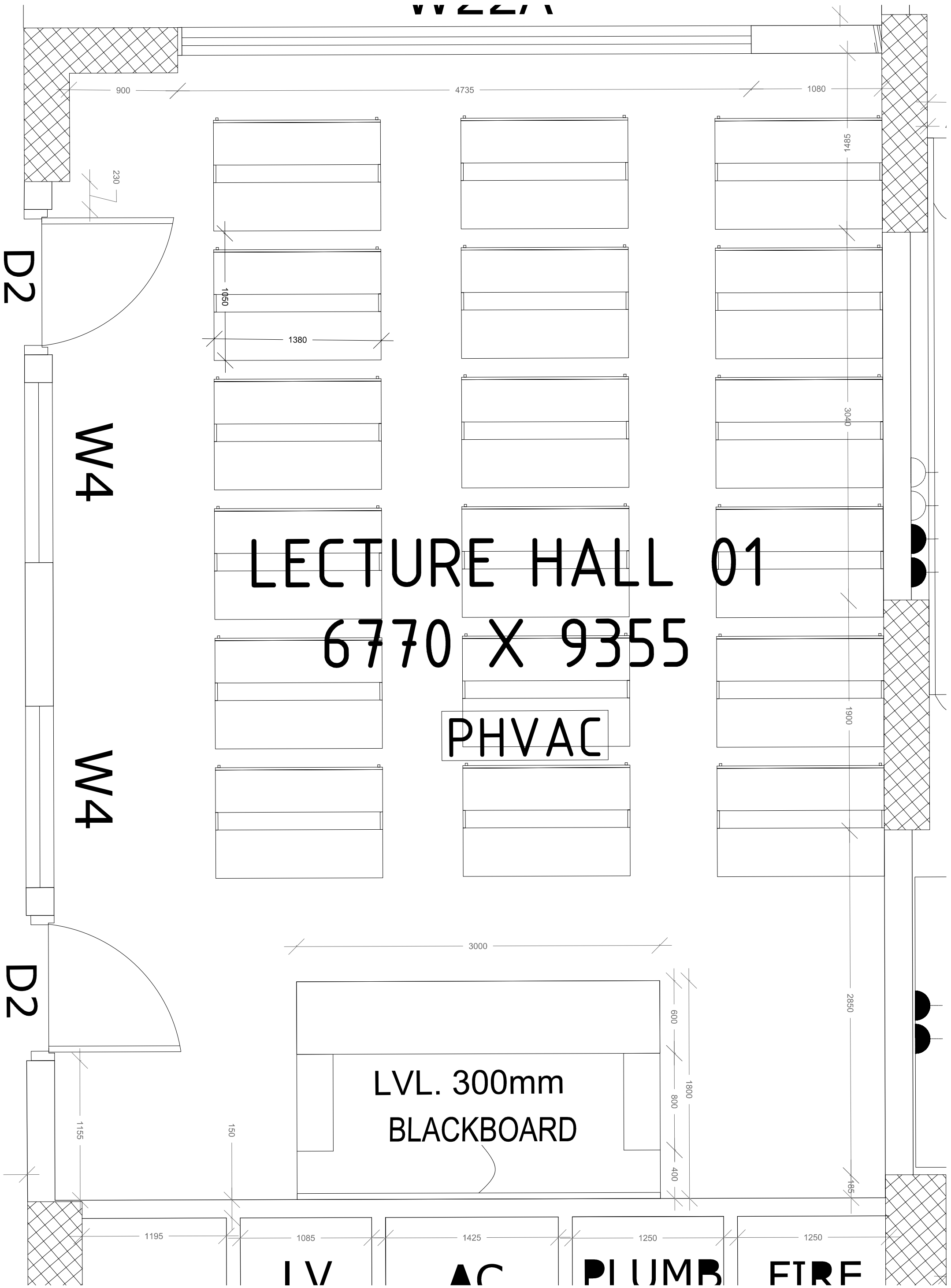
S.NO	REFERENCE IMAGE	DESCRIPTION	Q U A N T I T Y	TOTAL QUANTITY	TECHNICAL SPECIFICATION
8	WHITE BOARD				
			4 5 6  5	20	DIM: 3700mm B X 1500 H

NOTE: 1. ALL THE IMAGES PROVIDED ARE ONLY FOR REFERENCE.

2. THE COLOUR PALLETTE WILL BE SELECTED BY ARCHITECT AND BUILDING COMMITTEE







# LECTURE HALL 01

## 6770 X 9355

PHVAC

LVL. 300mm  
BLACKBOARD

IV

AC

PLUMB

FTRF

W4

W4

D2

D2