

# TEZPUR UNIVERSITY



## Bidding Document (TECHNICAL BID)

Name of the work-      **Supplying and Installation of Furniture for 500 capacity Boy's and Girl's hostel, Lecture hall, Law dept, Commerce and Physics Dept for the work 'Implementation of building projects at Tezpur university under HEFA funding'.**

**OFFICE OF THE REGISTRAR, TEZPUR UNIVERSITY  
NAPAAM, TEZPUR, ASSAM**

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**NOTICE INVITING TENDER**

**NIT No. No. TU/S&P/5-4**

**Date: 25.12.2024**

Sealed tenders in two bid system are invited for and on behalf of the Registrar,  
Tezpur University for the works mentioned below.

Tender Name	Supplying and Installation of Furniture for 500 capacity Boy's and Girl's hostel, Lecture Hall, Law dept, Commerce and Physics Dept for the work 'Implementation of building projects at Tezpur university under HEFA funding'.
Tender No.	
Estimated Cost	Rs.14,48,00,573.00 (Fourteen Crore Forty-Eight Lakhs five Hundred Seventy Three only)
Published Date	As per Gem
Bid Document download start date	As per Gem
Bid Document download end date	As per Gem
Last date & time for receipt of Bid	As per Gem
Date of Opening of Bid	As per Gem
Tender Fee (Non-refundable)	<b>Nil</b>
EMD (Earnest Money Deposit)	Rs. 28,96,011.00 (Twenty Eight Lakhs Ninety Six Thousand Eleven only)
Time Schedule for supply and installation of Furniture & Fixtures	For 500 Capacity Girls' Hostel : 45 Days For 500 Capacity Boys' Hostel : 45 Days For other Buildings : 90 Days
Validity of tender	180 Days

*Handwritten signature*

## NOTICE INVITING BID

**Bid No. TU/S&P/5-4**

**Date: 25.12.2024**

**Bids in 02 Bid System (Technical and Financial) are invited from reputed manufacturers/authorized dealers for work of "Supplying and Installation of Furniture for 500 capacity Boy's and Girl's hostel, Lecture hall, Law dept, Commerce and Physics Dept for the work 'Implementation of building projects at Tezpur university under HEFA funding'.**

Please read the Bid document carefully before participating. It shall be deemed that submission of bid by the bidder has been done after their careful study and examination of the Bid terms with full understanding to its implications. Any lack of information shall not in any way, relieve the bidder from its responsibility to fulfill its obligations under the Bid.

The Registrar, Tezpur University will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, the Purchase Order. Fraudulent Practice means a misrepresentation of facts in order to influence a procurement process and includes collusive practice among bidders (prior to or after the submission of Bid) designed to establish Bid prices at artificial non-competitive levels and to deprive Tezpur University of the benefits of free and fair competition. Corrupt Practices means offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of the purchase execution.

For any queries/doubt please contact the Registrar, Tezpur University (e-mail: registrartu@tezu.ernet.in) or in the email id mentioned in the Bid.

### GENERAL TERMS & CONDITIONS:

1. The items desired to be procured through this bid are supplementary and complementary to each other and in execution of the project in entirety, as such interested participants may note that they are to quote for all the items as desired to be procured through this bid.
2. **Rates:** Rates quoted should be only **FOR Tezpur University, Napam, Tezpur, Door Delivery and installation Basis**, for indigenous items and **CIP Tezpur University, Napaam, Tezpur or Delivered Duty Paid**, for imported item. Failure to comply with this term may lead to rejection of the quotation.
3. **Quotations should be accompanied with i) An EMD (2% of bid value) (in the form of Demand Draft/Banker Cheque) for ₹ 28,96,011.00.- (Rupees Twenty Eight Lakhs Ninety Six Thousand Eleven only) only drawn in favour of The Registrar, Tezpur University, payable at Tezpur. No request for consideration of earlier deposited EMD will be considered. ii) Bidders who are MSME/NSIC registered needs to furnish a "Bid Security Declaration" (format enclosed at Annexure – II) in lieu of EMD accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for a period of Three (03) years from participating in any future bid invited/published by the Tezpur University. Bidders who are MSME/NSIC registered seeking exemption from payment of EMD are to submit valid documents in support of their claim. Bidders seeking exemption are asked to clearly mention the category under which exemption is claimed. The category of exemption under MSME/NSIC will be strictly adhered to. iii) The original copies of the EMD/Bid Security Declaration should be deposited/submitted/reach the office of the undersigned before opening of the Bids in a sealed envelope, superscribed as**



*“Quotation/Participation Fee and EMD for (State the Bid No. and Date\*\*\* ) addressed to the Registrar, Tezpur University . Failure to do so may result in rejection of the bid.*

4. Bidders/Tenderers are to ensure that they are GST compliant and that their quoted tax structure/rates are as per GST law. The rates should be exclusive of taxes and the applicable tax percentage should be clearly indicated. Financial/Price Bid format where taxes cannot be mentioned separately, in such cases, the percentage of taxes applicable should be mentioned in the Technical Bid document.
5. **Validity of Quotation:** Quoted rates must be valid for at least **180 days** from the last date of submission of quotation.
6. Applicable levies, surcharge and discounts should be clearly indicated item-wise.
7. The rates should be quoted along with supporting documents of specifications and technical features and list of users, wherever applicable.
8. **Literature a must (wherever applicable):** All the quotations must be supported by technical leaflet/literature and the specifications mentioned in the quotation must be reflected/ supported by such technical leaflet/ literature. The model and specifications quoted should **invariably be highlighted** in the leaflet/literature for easy reference.
9. **After Sales Service Guidelines (wherever applicable):** In case of imported goods as well as local goods, bidders should clearly state the detailed address, contact number and email ids of ‘after sales service centre’. Service against any complaint must be provided within 24 hours.
10. **Dealership Certificate (wherever applicable):** Dealers or Agents quoting on behalf of Manufacturer must upload valid dealership certificate.
11. **Quality Certificates:** Valid certificate to prove that the products are genuine and of international standard, as mentioned below, must be uploaded: (a) Manufacturer’s certificate; (b) ISO/ISI certificate.
12. **Genuine Pricing:** Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this item has been sold, particularly to Universities/IITs/Institutes and other Government Organization.
13. **Payment:** 100% payment after successful delivery, installation, and commissioning (if required in the scope of supply) and acceptance by the user.
14. **PENALTY FOR DELAYED DELIVERY:** The date of delivery should be strictly adhered to. In the event of delayed delivery, installation & commissioning, the vendor shall be liable for a penalty deduction as per prevailing rule.
15. Tezpur University is exempted from paying Custom and Excise duty.
16. **Warranty/Guarantee: 01(One ) Years standard warranty.**
17. Performance Bank Guarantee amounting to 3(Three)% of the order value needs to be submitted in the form of Bank Guarantee in favour of “The Registrar, Tezpur University” on or before the date of submission of the bill. The Performance Bank Guarantee must remain valid for the entire period of warranty plus 60(sixty) days. No interest shall be paid on the Performance Bank Guarantee.



18. Irresponsive/incomplete quote will be rejected.

19. **Conditional tenders not acceptable:** All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Printed conditions mentioned in the tender bids submitted by vendors will not be binding on Tezpur University.

20. **Enquiry during the course of evaluation not allowed:** No enquiry shall be made by the bidder(s) during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Purchase Committee or its authorized representative (Tezpur University) can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full co-operation. The bidders may also be asked to arrange demonstration of the offered items, in a short period notice, as such the bidders must be ready for the same.

**Termination for default:** Default is said to have occurred.

- a. If the equipment or any of its component is found having poor workmanship, faulty designs, poor performance and bad quality of materials used.
- b. If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by Tezpur University.
- c. If the supplier fails to perform any other obligation(s) under the contract.
- d. Under the above circumstances Tezpur University may terminate the contract / purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above Tezpur University may at its discretion also take the following actions Tezpur University may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate Tezpur University for any extra expenditure involved towards goods and services obtained. Besides, the Registrar, Tezpur University, and reserves the right to impose any other form of penalty as deemed fit including blacklisting of the vendor.

21. **Selection criteria:**

i. **Evaluation Criteria:**

To ensure that each bidder has the necessary qualifications and resources to fulfill its obligations under the contract, the following criteria shall be evaluated. The Eligibility, Financial, Experience & Support criteria should be placed before the technical criteria. Technical criteria will be evaluated and ranked by the award of ACCEPT and/or REJECT. Only the ACCEPTED vendors will be considered for opening of price bid.



ii.

**Eligibility Criteria:**

**Qualifying criteria for interested Supplier/bidder :**

1. The OEM should be a reputed manufacturer of wooden and steel furniture items and should have its own manufacturing set-up in India from last 10 years and more. Documentary proof such as PAN, Incorporation Certificate, Factory License and Trademark Certificate for their Brand Name, should be submitted.
2. The bidder can also be an Authorized Dealer of OEM. In this case bid specific Manufacturer Authorization Certificate from OEM should be submitted along with the tender.
3. The OEM should have Annual Turnover of 150 Crore or more from the sale of wooden and steel furniture only in each of last three financial years. CA Certificate should be submitted as documentary proof along with copy of audited balance sheet, profit & loss statement and ITR Acknowledgement of last three financial years.
4. The bidder /OEM should submit a Bank Solvency Certificate issued from any nationalized/scheduled bank worth 50 Crore or more which should not be more than 6 months old from the last date of bid submission.
5. The bidder /OEM should have ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2018 from certifying agencies accredit by NABCB.
6. The bidder /OEM should be a member of BIFMA and at Least 30 products of the bidder have to be tested as per ANSI/BIFMA standard and these products should be listed on BIFMA website. Weblink/Screenshot to be submitted. <https://www.bifma.org/>
7. Bidder /OEM should have Green Guard Certificate from UL for more than 200 Products. All certified products should be visible on [www.spot.ul.com](http://www.spot.ul.com) website and screenshot to be submitted. Website :- <https://spot.ul.com/main-app/products/catalog>
1. Bidder/OEM should have Indian Design Mark (IDM) Certificate from India Design Council. Can be checked on : <https://indiadesignmark.in/selected-applications>
8. Bidder/OEM should have Indoor Advantage™ Gold Certificate of Furniture for Indoor Air Quality from SCS Global. Copy of the same should be enclosed. Website :- <https://www.scsglobalservices.com/certified-green-products-guide>
9. Joint Venture for the said project is not allowed.

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### Delivery Period

22. The delivery installation and commissioning should be completed as mentioned below of the award of BID without any deviation.
1. For 500 Capacity Girls' Hostel : 45 Days
  2. For 500 Capacity Boys' Hostel : 45 Days
  3. For other Buildings : 90 Days

### Force Majeure

If any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reason of any war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, earth quake, explosions, epidemics, quarantine restrictions, bandh, strikes, lockouts or act of God (Hereinafter referred to as events) provided notice of happenings, of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such on performance or delay in performance under the contract shall be resumed as soon as practicable after such an event may come to an end or cease to exist, and the decision of Tezpur University as to whether the services have been so resumed or not shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days either party may, at his option to terminate the contract

### Dispute Resolution Committee

The disputes or differences whatsoever arising between the parties out of or relating to the operation or effect of this contract or breach thereof shall be settled through:

(i) If a dispute of any kind, whatsoever, arises between the procuring entity and supplier in connection with or arising out of the contract or the execution of the works, whether during the execution of the work or after their completion and whether before or after the repudiation or termination of the contract, including any disagreement by either party with any action, opinion, instruction, determination, certificate or valuation of the Authority; the matter in dispute shall in the 1st place, be referred to the Dispute Resolution Committee (DRC) appointed by TEZPUR UNIVERSITY. DRC thus, constituted may act as "conciliator" and TEZPUR UNIVERSITY will be guided by principles of "conciliation" as included in part III of Arbitration and Conciliation Act 1996. DRC should take into consideration, rights and obligations of parties, usage to trade concern and circumstances surrounding the dispute(s), including any previous business practices between parties. Efforts of DRC should be to come to an amicable settlement of outstanding disputes. If parties agree, a written settlement will be drawn out and signed by the parties. DRC will authenticate the settlement agreement and furnish a copy to each party. DRC will give its' report within 45 days of its constitution.

(ii) **Adjudication through Arbitration:** - Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above, disputes or differences shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Chairman / Member of TEZPUR UNIVERSITY. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is also a term of the contract that If the supplier does not make any demand for appointment of Arbitrator in respect of any claim in writing within 120 (One hundred Twenty) days of receiving the decision/award from Dispute Resolution Committee, the claim of the supplier(s) will be deemed to have been waived and absolutely barred and the TEZPUR UNIVERSITY shall be discharged and released of all liabilities under the contract in respect of these claims. It is the term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such disputes along with the notice for appointment of the arbitrator and giving reference to the rejection of their claims by the Dispute Resolution Committee. It is also a term of this contract that no person, other than a person appointed by above mentioned appointing authority, should act as arbitrator and if for any reason that is not possible, the matter shall

not be referred to arbitration at all. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause. It is also a term of this contract that the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs.1,00,000/-, the arbitrator shall give reasons for the award. It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid equally by both the parties. It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter-statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the arbitrator shall, If required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid

### **Termination of Contract**

- (i) If the TEZPUR UNIVERSITY considers that the performance of the supplier is unsatisfactory or not up to the expected standard, the TEZPUR UNIVERSITY shall notify the same to the supplier in writing and specify in detail the cause of such dissatisfaction. The TEZPUR UNIVERSITY shall have the option to terminate the contract by giving 30 days' notice in writing to the supplier if the supplier fails to comply with the requisitions contained in the said written notice issued by the TEZPUR UNIVERSITY and the decision of the TEZPUR UNIVERSITY shall be final and binding on the Supplier.
- (ii) TEZPUR UNIVERSITY may also give Termination Notice and without compensation to the supplier to terminate the contract if the supplier becomes unwilling, bankrupt or otherwise insolvent without affecting its right of action or remedy as the hirer.
- (iii) The contract can be terminated by issuing 30 days' notice in writing at any time by either the party without assigning any reason and the supplier shall not cease to render the service facility until the TEZPUR UNIVERSITY makes alternate arrangements thereof and informed the supplier accordingly. The extended period after expiry of the notice period will not, however, be more than 30 days in any case.
- (iv) Upon termination, under and with reference to this clause, the supplier shall be entitled to be paid for the actual work performed up to the date of termination in accordance with the provisions of the contract, but shall not be entitled to any other claim or compensation whatsoever, including (but not limited to) any claim or compensation for any expenditure incurred by the supplier in or for any equipment's, materials or facilities or for any loss in the profit or anticipated profit of the supplier.
- (v) If at any stage during the period of execution of the contract, any case involving moral turpitude is instituted in a court of law against the supplier or his employees, TEZPUR UNIVERSITY reserves the exclusive and special right to the outright termination of the contract and the supplier shall not be entitled to any compensation from the TEZPUR UNIVERSITY whatsoever.
- (vi) The agreement shall be deemed to have been terminated on the expiry of the contract period unless TEZPUR UNIVERSITY has exercised its option to extend this contract in accordance with the provisions, if any, of this contract.

### **Jurisdiction**

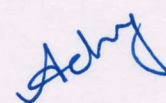
The parties hereto agree that any matter or issues arising hereunder, or any dispute hereunder shall be subject to the exclusive jurisdiction of the courts of situated at Guwahati.

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## List of Enclosures to be submitted with the bid

SI No	Type of Document	Submitted	Page No
<b>Mandatory:</b>			
1.	PAN Card	Yes/No	
2.	GST Certificate	Yes/No	
3.	Valid Trade License/ Registration Certificate	Yes/No	
4.	ITR Returns (Last 03 Financial Years)	Yes/No	
5.	Declaration of Non-Blacklisting	Yes/No	
6.	Acceptance to Tender Condition	Yes/No	
7.	Technical Specifications and Compliance Sheet including model supported by leaflet	Yes/No	
8.	Audited Balance Sheet certified by CA for last 03 yrs. *	Yes/No	
9.	Annual Turnover (last 03 Financial Years) *	Yes/No	
10.	Proof of Experience *	Yes/No	
11.	Earnest Money Deposit *	Yes/No	
12.	Bid Security Declaration Form*	Yes/No	
13.	MSME / NSIC (* exempted for those who are MSME registered )	Yes/No	
<b>Optional :</b>			
1.	Proof of Office Address (If applicable)	Yes/No	
2.	ISO Certificates (If applicable)	Yes/No	
3.	Address of After Sales Support /Service Centres (if applicable)	Yes/No	
4.	Dealership Certificate/Authorization Certificate (if applicable)	Yes/No	
5.	MII Declaration (if applicable)		
6.	Escalation Matrix	Yes/No	
7.	Product Datasheet, User Manual and brochure in support of technical parameters	Yes/No	
8.	Certification for Genuine Pricing	Yes/No	



**ANNEXURE-II**

**Bid Security Declaration**  
(on Bidders Letter-head)

Bidder's Name \_\_\_\_\_  
[Address and Contact Details]  
Bidder's Reference No. \_\_\_\_\_ Date.....

To  
The Registrar,  
Tezpur University,  
Tezpur, Assam,  
Pin-784028

Ref: Your Tender / Bid Document No. \_\_\_\_\_ dated \_\_\_\_\_ for procurement of  
\_\_\_\_\_ (GOODS)

Subject:-**Bid Security Declaration**

Sir/ Madam

We, the undersigned, solemnly declare that:

We understand that according to the conditions of this Tender Document, the MSE OEM/System Integrator registered with NSIC/KVIC or such Central procuring agencies/Ministries and STARTUPS registered with DPIIT are exempted from submission of Earnest Money Deposit. Accordingly, we M/s ..... eligible for exemption from EMD and relevant documents/certificates are attached. Accordingly we hereby declare that :- We unconditionally accept the conditions of this Bid Security Declaration. We understand that we shall stand automatically suspended from being eligible for bidding in any tender in Procuring Organisation for **1 years** from the date of opening of this Bid if we breach our obligation(s) under the tender conditions if we:

- 1) withdraw/ amend/ impair/ derogate, in any respect, from our bid, within the Bid validity; or
- 2) being notified within the bid validity of the acceptance of our bid by the Procuring Entity:  
refused to or failed to produce the original documents for scrutiny or the required Performance Security within 15 days from the date of issue of supply order/contract.  
Fail or refuse to sign/accept the contract.

We know that this bid-security Declaration shall expire if the contract is not awarded to us, upon:

- 1) receipt by us of your notification  
of cancellation of the entire tender process or rejection of all bids or  
of the name of the successful bidder or
- 2) forty-five days after the expiration of the bid validity or any extension to it.

(Signature with date)

.....

(Name and designation)

Duly authorized to sign bid for and on behalf of.....

[name & address of Bidder and seal of company]

Dated on ..... day of ..... [insert date of signing]

Place.....[insert place of signing]



**Name of work: Supplying and Installation of Furniture for 500 capacity Boy's and Girl's hostel, Lecture hall, Law dept, Commerce and Physics Dept for the work 'Implementation of building projects at Tezpur university under HEFA funding**

Sl. No.	Item Name	Item Description	Unit	Qty.
<b>500 capacity Girl's and Boy's Hostel</b>				
1	HOSTEL BED	Providing and placing in position single bed with an overall size - 2005mm (L) X 965mm (W) X 690/400mm (H) without mattress. The construction of the bed shall be supplied in knock down with metal frame made out of MS/CRCA steel pipe having cross-section area 50mm X 25mm with 1.2 thick. 3 nos. of CRCA round pipe shall be provide on head side with 15mm dia. The mattress panel shall be made of 12mm thick plyboard and mounted on CRCA square pipe strips having cross-section area 19.05mm X 19.05mm with 1 mm thick. There shall be crca pipe for mosquito net having 16mm dai. The legs shall be made of M.S.E.R.W pipe having cross-section area 50mm X 25mm with 1.2 mm thick. All metal part shall be powder coating finish with DFT(Dry Film Thickness) - 35µ min. The PPCP shoes shall be insert into bottom of legs for avoid skretches on the floors.	No	1016
2	STUDY TABLE	Supplying and placing a modular table with an overall size 750mm X 600mm X 750mm. The top of the table shall be made of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile of the top shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS CRCA powder coated rectangle pipe frame having cross-section area 25mm X 25mm with 1.2mm thick. All metal part shall be powder coating finish with DFT(Dry Film Thickness) - 35µ min. The PPCP shoes shall be insert into bottom of legs for avoid skretches on the floors	No	1016
3	STUDY CHAIR	Providing and supplying student study room chair with ergonomic design for user comfort. The seat and back shall be made of 15mm and 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 0.6mm thick and 235 GSM. The seat and back shall be arrested together with MS powder coated HR steel spine. The frame structure shall be 4 leged support type made up of MS/CRCA powder coated with 50-60µ (DFT) thick round pipe of dia. 25.4mm with 1.6mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor. The seat size shall be 440±10mm (D) X 435±10mm (W) and back size shall be 420±10mm (W) X 330±10mm (H) from seat. Overall height shall be = 860±10 mm, overall depth = 700±10 mm & overall width = 540±10 mm.	No	1016
4	DINING TABLE	4 Seater PU Coated size shall be 1134 Width mm x 1175 Depth mm x 750 Height mm . Top shall be 25 mm thick base material shall be 25 mm MDF board . On top PU painting of minimum 2H hardness with 75% glass as per color chart .Combination color graphics on the centre . Brown Laminate on bottom specially profiled edges for comfort . The Understructure shall be having bend pipe structure of MS powder coated . Pipe dia 38 mm , 2 mm thick and it shall be fitted with top by SS machine screws . Legs shall be of MS powder coated and 38 mm dia. pipe legs are fixed with inderstructure and table top . Glide shall be of Plastic fixed at the understructure to prevent the damage of table top during stacking . Company should be ISO-9001, 14001, 45001, 50001, BIFMA, AIOTA and Greenguard certified.	No	70
5	DINING CHAIR	Providing and supplying plastic shell chair. The seat and back shall be made up of injection moulded high impact strength polypropylene polymer. The understructure shall consist of SS 202 grade round pipe frame having dia. 22.2mm with 1.6mm thick and 35mmX15mm capsule pipe with 1.6mm thick. It should be powder coated to the thickness of 40-60µ DFT. There shall be plastic show provided at the bottom. The overall size of the chair shall be 845mm(H) X 510mm(W) X 550mm(D).	No	300
6	COMMON ROOM CHAIR	Supplying & Placing Cafe Chair. The seat and back shall be made of moulded polypropylene shell of 7mm thick. The seat and back shall be bend in L-type shape. The frame structure shall be supported by four legs made up of MS CRCA chrome plated round pipe of Dia 22mm at upper side and taper at lower side of Dia 15mm with 1.5mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor. The Seat size shall be 430±10 mm(D) X 470±10 mm(W) and back size shall be 430±10 mm(W) X 380±10 mm(Ht) from seat. Overall height shall be = 825±10 mm & overall depth = 490±10 mm.	No	240

7	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	2
8	COMMON ROOM TABLE	<p>Providing and supplying moving-cum-folding table with an overall size 1800mm X 500mm X 750mm. The worktop shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade. The profile shall be in rectangle shape with round corners and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The table shall be clad with 18mm thick modesty panel made up of Pre-laminated particle board with appropriate edge banding. The legs shall be made of 47mm X 23mm with 1.6mm thick MS capsule pipe. Modesty holding leg frame shall be made of 47mm X 23mm thick MS capsule tube and 3mm thick HR steel welded together. Cross member assembly for top shall be made of 25mm X 25mm with 1.6mm thick MS pipe welded with sheet structure. top folding bracket welded with 15.8mm dia. MS pipe frame. The understructure shall be provided with injection moulded twin wheel nylon castors for ease of movement. The complete steel structure shall be epoxy polyester powder coated to the dry film thickness 40-60µ thick. All the sizes shall have the tolerance of upper and lower deviation of ±10mm for board &amp; ±0.2mm for metal.</p>	No	2
9	WARDENER TABLE	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, facia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	2

10	WARDENER CHAIR	<p>Providing and supplying high back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 625±10 mm(H) from seat &amp; overall height = 1060±10 mm.</p>	No	2
11	WARDENER COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	2
12	WARDENER COMPUTER CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	2

13	VISITOR CHAIR	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat & overall height = 890±10mm(H), overall Depth = 645±10mm(D)	No	6
14	WARDENER ROOM ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	4
15	WARDENER OFFICE BOOKCASE	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	No	4
			<b>Sub-Total</b>	
<b>Lecture Hall</b>				
<b>Lecture Hall Capacity: 156 seater (8 Nos)</b>				
1	DESK FOR TEACHER	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	8

2	CHAIR FOR TEACHER	<p>1) SEAT ASSEMBLY/BACK ASSEMBLY: The Cushioned seat should be made of Injection molded Plastic outer &amp; inner. Plastic Inner should be upholstered with foam laminated fabric and moulded High Resilience Polyurethane foam of Density <math>50 \pm 2 \text{ kg/m}^3</math>, and hardness load <math>16 \pm 2 \text{ kgf}</math> for 25% compression. The combined mesh &amp; fabric back should be made of Injection molded Plastic outer &amp; inner. Plastic Inner should be upholstered with foam laminated fabric and moulded High Resilience Polyurethane foam of Density <math>45 \pm 2 \text{ kg/m}^3</math>, and hardness load <math>16 \pm 2 \text{ kgf}</math> for 25% compression, as well as adjustable headrest for comfort seating.  Seat SIZE : 510 mm. (W) x 500 mm. (D)  BACK SIZE : 485 mm. (W) x 625 mm. (H)</p> <p>2) ARMRESTS The armrest top should be moulded from polyurethane (PU) and mounted on to a drop lift adjustable type, armrest support made of glass filled nylon. The armrest height adjustable up to <math>80 \pm 0.5 \text{ mm}</math> in 7 steps. (2 D adjustment )</p> <p>3) SYNCHRO TILT mechanism: The adjustable tilting mechanism should be designed with the following features:  o 360° revolving type.  o Front-pivot for tilt with feet resting on ground and curvature lumbar support ensuring more comfort.  o Tilt tension adjustment can be operated in seating position.  o Up-Right position Tilt limiter giving option of variable tilt angle to the chair.  o Seat/back tilting ratio of 1: 2  o The mechanism housing should be made up of HPDC Aluminium black powder coated.</p> <p>4) SEAT DEPTH ADJUSTMENT: Seat depth adjustment should be integrated in the seat through a sliding mechanism. Seat depth adjustment range should be of <math>6.0 \pm 0.5 \text{ cm}</math>.</p> <p>5) PNEUMATIC HT. ADJUSTMENT: The pneumatic ht adjustment has an adjustment stroke of <math>10.0 \pm 0.3 \text{ cm}</math>.</p> <p>6) PEDESTAL ASSEMBLY : The pedestal should be crystal chrome finish and fitted with 5 nos. twin wheel castors. The pedestal should be <math>66.1 \pm 0.5 \text{ cm}</math> pitch-center dia. (<math>76.1 \pm 1.0 \text{ cm}</math>. With castors.)</p> <p>7) TWIN WHEEL CASTOR: 5 Nos. twin wheel castors should be injection moulded in plastic having <math>6.0 \pm 0.1 \text{ cm}</math> wheel Diameter and assembled to pedestal.</p> <p>Overall Dimensions of Chair  Seat Height - 460-560 mm.  Height - 1035-1140 mm.  Width-76.1 cm and Depth-76.1 cm.</p>	No	8
3	DESK CUM BENCH	<p>Table Top, Seat And Back Rest Panel Material :Prelaminated Particle Board conforming to IS 12823 with PVC edge banding on all the sides  seating capacity : 2  Table Top Length 400 mm  Table Top Width 1200 mm  Table Top Height 730 mm  Seat Height 450 mm  Table Top Thickness 25 mm  Number Of Seats 2 NOS  UNDER STRUCTURE : MS/CRCA 75 x 25 x 2mm  seat and back material : polypropylene  The Seat size shall be <math>400 \pm 10 \text{ mm(D)} \times 375 \pm 10 \text{ mm(W)}</math>  back size shall be <math>425 \pm 10 \text{ mm(W)} \times 350 \pm 10 \text{ mm(H)}</math> from seat.  Overall height shall be = <math>710 \pm 10 \text{ mm}</math>.  mechanism : Auto return gas lift  Colour Of Table Top, Seat And Back Rest Choco Table top Black Seat  Frame Structure Material Powder Coated MS  Frame Structure Material Thickness 2.5 mm  Paint Powder coated</p>	No	864

4	GROUTING COST WITH CHEMICAL BOLT	Grouting Cost with Chemical fisher (125 x 10mm)	No	3
<b>Lecture Hall Capacity: 288 seater (3 Nos) and 540 seater (1 Nos)</b>				
1	AUDI CHAIR	Supplying and placing ergonomically designed, comfortable & aesthetically appealing Auditorium chair. The seat shall be made of 12mm thick hot pressed plywood with HR polyurethane foam upholstered with fire retardent fabric tapestry and the back shall be made of 15mm Plywood with PU Foam upholstereed 3 layered laminate 5mm thick with fabric tapestry. The Chair shall have a fix backrest & Tip up seat mechanism with ABS. The armrest and writing tablet shall be made of Rubber wood . All metal components shall be powder coated in black colour with min 40 micron. The grouting plate shall have bolting support. Seat size shall be 580±10mm(W) X 450±10mm(D) and back size shall be 730±10mm (H) from seat X 450±10mm (W) & overall height 1010±10mm. Retractable Desklet: The desklet should be designed to smoothly retract into the armrest when not in use the armrest should be capable of rotating to allow easy access to the desklet from multiple angles, The retractable desklet and rotatable armrest should be integrated seamlessly into the design of the chair. The mechanism should be durable and reliable, capable of withstanding repeated use over time. The chair should include safety features to prevent accidents or injuries, such as locking mechanisms to secure the desklet in place when extended and rounded edges to minimize the risk of snagging or catching. The overall design of the chair should be aesthetically pleasing and complement the design of the auditorium.	No	540
3	DESK CUM BENCH	Table Top, Seat And Back Rest Pannel Material :Prelaminated Particle Board conforming to IS 12823 with PVC edge banding on all the sides seating capacity : 2 Table Top Length400 mm Table Top Width1200 mm Table Top Height730 mm Seat Height450 mm Table Top Thickness25 mm Number Of Seats2 NOS UNDER STRUCTURE : MS/CRCA 75 x 25 x 2mm seat and back material : polyproplene The Seat size shall be 400±10 mm(D) X 375±10 mm(W) back size shall be 425±10 mm(W) X 350±10 mm(H) from seat. Overall height shall be = 710±10 mm. mechanism : Auto return gas lift Colour Of Table Top, Seat And Back RestChoco Table top Black Seat Frame Structure MaterialPowder Coated MS Frame Structure Material Thickness2.5 mm PaintPowder coated	No	864
4	GROUTING COST WITH CHEMICAL BOLT	Grouting Cost with Chemical fisher (125 x 10mm)	No	3



5	DIAS TABLE	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.	No	4
6	DIAS CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 610±10(H) from seat & overall height = 1010±10 mm.	No	4
<b>Faculty Lounge</b>				
1	SOFA 3 SEATER	Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m <sup>3</sup> . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have Gold plated 75 mm Height. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat height = 430±10 mm, overall width = 1900±10 mm, overall depth = 860±10 mm & overall height = 870±10 mm.	No	8
2	SOFA 1 SEATER	Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m <sup>3</sup> . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have Gold plated 75 mm Height. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat height = 430±10 mm, overall width = 1010±10 mm, overall depth = 860±10 mm & overall height = 870±10 mm.	No	16

3	CENTRE TABLE	Supplying & placing center table with an overall size 900mm X 900mm X 450mm. The top of the table shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade. The top profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS rectangle pipe frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of MS/CRCA four legs having Dia. 38mm at upper and 28mm at lower. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	8
4	MIRROR	Frame MaterialGlass StyleModern Mounting TypeWall Mount Finish TypePolished Special FeatureBevelled, Frameless SIZE : 12" X 24"	No	4
<b>Common Room</b>			No	
1	10 SEATER DISCUSSION TABLE	Supplying & Placing Conference table in completely knock down conditions with an overall size 3000mm X 1150mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall have the size 2700mm X 900mm made up of 2 nos. 25mm thick Pre-laminated particle board of grade II of IS 12823 with one side laminate and finish as per approved shade. The table top profile shall be in rectangle shape with round front and back and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edgebander machine at 200 0C. The table shall be supported by particle board base gable end. The end wall of the table on the side shall be topped by gable end. The gable end shall have the size 900mm X 715mm. The gable end shall be made up of 25mm thick Pre-laminated particle board and profile shall be in linear shape with full round post form and other edges sealed with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. The modesty panel shall have an overall size 1200mm X 600mm with 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between. , Note:- With Two Nos Flip Box.	No	4

2	HIGH BACK CHAIR	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat & overall height = 1150±10 mm.	No	40
<b>Ladies Rest Room</b>				
1	SOFA 3 SEATER	Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m <sup>3</sup> . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have Gold plated 75 mm Height. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat height = 430±10 mm, overall width = 1900±10 mm, overall depth = 860±10 mm & overall height = 870±10 mm.	No	8
3	CENTRE TABLE	Supplying & placing center table with an overall size 900mm X 900mm X 450mm. The top of the table shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade. The top profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS rectangle pipe frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of MS/CRCA four legs having Dia. 38mm at upper and 28mm at lower. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	8
4	MIRROR	Frame MaterialGlass StyleModern Mounting TypeWall Mount Finish TypePolished Special FeatureBevelled, Frameless SIZE : 12" X 24"	No	4
<b>Discussion Room</b>				

1	14 SEATER DISCUSSION TABLE	Supplying & Placing Conference table in completely knock down conditions with an overall size 4200mm X 1500mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix, dowels, pins and brackets. The worktop shall have the combination of PLPB board and MDF board. The main top should be made up of back to back 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and the base top shall be made up of 25mm thick Medium density fibre-board with deco matt finish. The table top profile shall be boat like shape with round corners. The edges edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius and the base top shall be with half round post form with grooves. Single sided Flip-up box should be enclosed at table top that houses video, audio, data and power connection discretely. Wire carrier shall be provided below the table top for power connection made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. The table shall be supported on particle board base gable end. The end wall of the table on the side and mid shall be topped by gable end. It should be made up of 36mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between.	No	2
2	MID BACK CHAIR	Providing and supplying MID back chair with ergonomic design. The seat shall be made of 12mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> with fabric tapestry and the back shall be made of two piece injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest shall be made by keeping the natural curvature of the spine and lumbar support which helps to provide full back support as well as head support. The chair shall be supplied with black adjustable polyurethane arm. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled nylon having pitch circle dia. 660 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(D) X 460±10 mm(W) and back size shall be 510±10 mm(W) X 600±10 mm(H) from seat. Overall height shall be = 1160±10 mm, overall width = 630±10 mm and overall depth = 680±10 mm.	No	30
			<b>Sub-Total</b>	
<b>Department of Commerce (GF)</b>				
1	TABLE 1800 X 900	Supplying & Placing Conference table in completely knock down conditions with an overall size 1800mm X 900mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape with round front and back and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The table shall be supported on particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick Pre-laminated particle board and profile shall be in linear shape with full round post form and other edges sealed with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be in between.	No	6

2	HIGH BACK CHAIR	<p>Providing and supplying high back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat &amp; overall height = 1150±10 mm.</p>	No	35
3	10 SEATER DISCUSSION TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 3000mm X 1150mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall have the size 2700mm X 900mm made up of 2 nos. 25mm thick Pre-laminated particle board of grade II of IS 12823 with one side laminate and finish as per approved shade. The table top profile shall be in rectangle shape with round front and back and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edgebander machine at 200 OC. The table shall be supported by particle board base gable end. The end wall of the table on the side shall be topped by gable end. The gable end shall have the size 900mm X 715mm. The gable end shall be made up of 25mm thick Pre-laminated particle board and profile shall be in linear shape with full round post form and other edges sealed with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. The modesty panel shall have an overall size 1200mm X 600mm with 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between. , Note:- With Two Nos Flip Box.</p>	No	2
4	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	10
5	WOODEN STORAGE	Storage 1950x900x450 mm	No	2

6	SINGLE SIDED BOOK RACK	<p>Providing, supplying and placing an open display book racks. The overall size of the rack shall be 925mm (W) X 300mm (D) X 1800mm (H). The rack shall be supplied with 4 nos. of adjustable shelves i.e. 5 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common panel. Back panel up to the bottom of third rack shall have additional rigidity. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 80 kg maximum. Each rack shall be provided with stiffener at bottom for strength. Label holder &amp; range indicators on each main unit for inserting labels. All steel components shall be epoxy polyester powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	9
7	MODULAR WORKSTATION	<p>Providing and placing workstation table in completely knock down conditions with an overall size 1320mm X 660mm X 1200mm that is to be assembled at site. The work top shall have the size 1200mm X 600mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile of the top shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 525mm X 350mm. The tray shall be operated on keyboard channel. The workstation shall have panel based partition of 60 mm thick with overall height 1200mm. The partition shall be linear in profile and provided in the front side of user as well as on the both sides of the user. The top trim, top bar, mid bar, vertical bar, raceway, skirting shall be made up of aluminium extrusions (pre-treated) and duly powder coated with 40µ-60µ thick. The trims shall have the size 60mm X 19mm with 1.5mm thick covered with Die cast end caps on joints 2 ways, 3 ways &amp; 4 ways (L-cover for corner, T-cover for middle section wherever required). The aluminium raceway shall be situated below the worktop with an overall size 116mm(H) X 60mm(D) with 1.4 mm cover thickness and 2mm back thickness as per requirement of inlaying the electrical management and carrying the wire horizontally. The exposed vertical and horizontal faces of the frames shall be snap fitted with trims. There shall be soft-board (with fabric) and marker board provided at front of the user. Laminated top tile and bottom tile shall be situated at both sides of the user and below the work top respectively. The Partition shall have concealed wire management capabilities and should be engaged for responsive and safe operations of power, telecommunications and data (LAN) and has separate components for electrical, data and telephone cables having adequate capability of both the vertical and horizontal wire movements. Slots/cut-outs should be given on raceways to fix all electrical and data points. Zinc coated small top support brackets shall be fixed on the partition for table top support. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be situated at bottom. Adjustable leveller shoe shall be provided at bottom of the partition to avoid scratches on the floor. Fixed type pedestal shall be provided with an overall size 400mm X 450mm X 725mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized lock with one single key. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. A nylon castor based CPU unit shall be provided with an overall size 468mm X 284mm with 18mm thick Pre-laminated particle board.</p>	No	35

8	MID BACK CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	35
9	EXECUTIVE TABLE	Office Table, MDF Structure, Membrane Size:- W2400 X D2100 X 750mm	No	1
10	HIGH BACK CHAIR	Providing and Placing High Back Chair with overall size of 761 mm W x 761 mm D x 1127 – 1302 mm H x 430 – 530 mm Seat Height. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> and 25mm thick having density 32kg/m <sup>3</sup> in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. Seat Size is 470 W mm x 480 D mm. The back is cushioned made of PU foam with inset molded M.S. ERW round tube of size 19±0.03mm x 1.6±0.0128mm, upholstered with leatherette. The back size is 477 W mm x 765 H mm. The armrest top is molded from polyurethane and mounted on to a drop lift adjustable type tubular armrest support made of Ø38±0.03mm x 2±0.01mm thick M.S. ERW tube having chrome plated finish. The armrest is height adjustable up to 65±0.5 mm in 5 steps. The Synchro Knee Tilt mechanism is designed with following features : 360° revolving type. The mechanism housing is made up of HPDC aluminium black powder coated. Seat depth adjustment is integrated in the seat through a sliding mechanism. Seat depth adjustment range is of 60±0.5mm. Back frame is connected to the up/down mechanism in plastic T spine. It can be adjusted in the range of 7.42±0.5 comfort the comfortable back support to suit individual need. The pneumatic height adjustment has an adjustment stroke of 100±0.3mm. The pedestal is high pressure die cast polished aluminium & fitted with 5 nos. of twin wheel castors. The pedestal is 650±0.5mm pitch centre dia. (750±1.0mm with castors). 5 nos. of twin wheel castors are injection moulded in plastic having 60±0.1mm wheel diameter and assembled to pedestal.	No	1
11	VISITOR CHAIR	Providing and Placing Visitors Chair with overall size of 609 W m x 642 D mm x 982 H mm x 448 Seat Height mm. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> and 25mm thick having density 32kg/m <sup>3</sup> in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. Seat Size is 470 W mm x 480 D mm. The back is cushioned made of PU foam with insitu molded M.S. ERW round tube of size 19±0.03mm x 1.6±0.0128mm, upholstered with leatherette. The back size is 477 W mm x 601 H mm. The tubular frame is cantilever type and made of Ø25.4±0.03mm x 2±0.016 mm thick chrome plated MS CRCA tube.	No	3

12	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	1
13	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	1
14	4 DOOR FILLING	<p>Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 440mm (W) X 620mm (D) X 1310mm (H). The cabinet shall be supplied with 4 nos. of drawer. The drawer shall be operated with aesthetically appealing snap fit ABS plastic handle and ball bearing base telescopic channel. All drawers shall be synchronized locked with central locking mechanism by one single key. Uniformly distributed load capacity of each drawer shall be 15/20 Kg. The entire body panel, shelf shall be made of prime quality 0.8mm thick CRCA sheet of grade 'D' confirming to IS: 513. To protect the ball from kicks, abrasion and serve as a decorative moulding skirting shall be provided at the bottom of the cabinet. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ thick.</p>	No	2
15	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	2



16	3 SEATER SOFA	Supplying and placing a three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> . The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 1810±10 mm(W), seat height = 440±10 mm, overall width = 2120±10 mm, overall depth = 935±10 mm & overall height = 850±10 mm.	No	1
17	1 SEATER SOFA	Supplying and placing a single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> . The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 620±10 mm(W), seat height = 440±10 mm, overall width = 920±10 mm, overall depth = 935±10 mm & overall height = 850±10 mm.	No	2
18	CENTRE TABLE	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The side clad of the table shall be 18mm thick particle board. The under structure shall consist of SS 202 grade pipe frame cross-section area 50mm X 10mm. There shall be PPCP shoe provided at the base to avoid scratches on the floor.	No	1
19	OFFICE TABLE	Office Table, MDF Structure, Membrane Size:- W2400 X D2100 X 750mm	No	1
20	MID BACK CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat & overall height = 960±10 mm.	No	1

21	VISITOR CHAIR	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat & overall height = 890±10mm(H), overall Depth = 645±10mm(D)	No	5
22	4 DOOR FILLING	Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 440mm (W) X 620mm (D) X 1310mm (H). The cabinet shall be supplied with 4 nos. of drawer. The drawer shall be operated with aesthetically appealing snap fit ABS plastic handle and ball bearing base telescopic channel. All drawers shall be synchronized locked with central locking mechanism by one single key. Uniformly distributed load capacity of each drawer shall be 15/20 Kg. The entire body panel, shelf shall be made of prime quality 0.8mm thick CRCA sheet of grade 'D' confirming to IS: 513. To protect the ball from kicks, abrasion and serve as a decorative moulding skirting shall be provided at the bottom of the cabinet. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ thick.	No	2
23	OFFICE TABLE	Providing and supplying executive table with an overall size 1350mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	1
24	MID BACK CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	2

25	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	1
26	WOODEN STORAGE	Storage 1950x900x450 mm	No	1
<b>Commerce (FF)</b>				
1	TEACHER TABLE	Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	3
2	TEACHER CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat & overall height = 960±10 mm.	No	3

3	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aesthetic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	41
4	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, facia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	12

5	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	12
6	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	24
7	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	12

8	MID BACK CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	12
9	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	12
10	4 DOOR BOOKCASE	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure	No	12
<b>Commerce (SF)</b>				
1	TEACHER TABLE	Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	4

2	TEACHER CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	4
3	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aestheic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	61

4	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	7
5	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	7
6	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	14



7	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	7
8	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	7
9	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	7
<b>Commerce (Third Floor)</b>				

1	CUSHION CHAIR WITH DESKLET	<p>1) SEAT / BACK: The seat sub-assembly should be made up of 1.2±0.1cm thk Plywood upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The seat can tip-up when not in use and thshould be feature can be used while stacking the chairs horizontally The back sub-assembly should be made up of injection-moulded polypropylene inner upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The contoured back with width extension at the bottom should be a should be designed to give comfort to lower back. The back flexing features allows the back to tilt by 9c±2' to aid the user in adopting a comfortable reclining posture. Both these sub-assemblies should be fixed to the tubular structure,</p> <p>BACK SIZE: 45.2cm (W) X 44.6cm (I-I) SEAT SIZE: 47.0cm (W) X 50.0cm (D)</p> <p>2) TUBULAR FRAME STRUCTURE: The powder-coated 4 leg structure should be made of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E.R.W. Tube front and rear leg welded along with connecting tube made of 1.9 ±-0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube to form the tubular frame assembly. The legs should be provided with injection-moulded adopter bush in black Nylon and brake-loaded castors enabling easy maneuvering while not in use and stable sitting while in use_ The chairs can be stacked horizontally when not in use_</p> <p>3) POLYURETHANE FOAM: The Polyurethane foam should be moulded with density = 70.0 ±8.0 kg/m3 and Hardness = 20 ±2 for Seat &amp; 16 ±2 for back at 25% compression.</p> <p>4) ARMRESTS: The armrest structure should be made up of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E R.W. Tube welded to the Tubular Frame structure and having a scratch-resistant tant ABS Arm top.</p> <p>5) FULL DESKLET: The Full Desklet assembly should be Flip-up type and should be made up of extension tube of 1.9 ±0.02em dia x 0_2 ±0.016cm thk PAS. E.R.W. Tube and a support tube on L.H. side of 1.6 ±0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube on which an scratch resistant tant ABS desklet top should be fixed and covered on bottom side with a bottom cover.</p> <p>6) BRAKE-LOADED CASTORS : The brake-loaded castors should be assembled to the chair legs, to give a free movement for maneuvering the chair when not in use and it will brake the movement when load should be applied (while in use) to give a stable feel. The twin wheel castors should be injection molded in black Polypropylene.</p> <p>Overall Dimensions of Chair Seat Height - 47.5 cm. Height - 89.0cm. Width &amp; Depth of Chair as measured from base - Width-66.5cm and Depth-84.0 cm.</p>	No	176
2	25 SEATER TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 4200mm X 1500mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix, dowels, pins and brackets. The worktop shall have the combination of PLPB board and MDF board. The main top should be made up of back to back 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and the base top shall be made up of 25mm thick Medium density fibre-board with deco matt finish. The table top profile shall be boat like shape with round corners. The edges edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius and the base top shall be with half round post form with grooves. Single sided Flip-up box should be enclosed at table top that houses video, audio, data and power connection discretely. Wire carrier shall be provided below the table top for power connection made of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS:513. The table shall be supported on particle board base gable end. The end wall of the table on the side and mid shall be topped by gable end. It should be made up of 36mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between.</p>	No	1

3	HIGH BACK CHAIR	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat & overall height = 1150±10 mm.	No	25
4	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	5
			<b>Sub-Total</b>	
<b>Department of Physics (GF)</b>				
1	TABLE	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.	No	8

2	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	8
3	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	16
4	COMPUTER TABLE	<p>Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.</p>	No	8

5	COMPUTER CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	8
6	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	8
7	4 DOOR BOOKCASE	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	No	16
8	EXECUTIVE TABLE	Office Table, MDF Structure, Membrane Size:- W2400 X D2100 X 750mm	No	1

9	HIGH BACK CHAIR	<p>Providing and Placing High Back Chair with overall size of 761 mm W x 761 mm D x 1127 – 1302 mm H x 430 – 530 mm Seat Height. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> and 25mm thick having density 32kg/m<sup>3</sup> in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. Seat Size is 470 W mm x 480 D mm. The back is cushioned made of PU foam with inset molded M.S. ERW round tube of size 19±0.03mm x 1.6±0.0128mm, upholstered with leatherette. The back size is 477 W mm x 765 H mm. The armrest top is molded from polyurethane and mounted on to a drop lift adjustable type tubular armrest support made of Ø38±0.03mm x 2±0.01mm thick M.S. ERW tube having chrome plated finish. The armrest is height adjustable up to 65±0.5 mm in 5 steps. The Synchro Knee Tilt mechanism is designed with following features : 360° revolving type. The mechanism housing is made up of HPDC aluminium black powder coated. Seat depth adjustment is integrated in the seat through a sliding mechanism. Seat depth adjustment range is of 60±0.5mm. Back frame is connected to the up/down mechanism in plastic T spine. It can be adjusted in the range of 7.42±0.5 comfort the comfortable back support to suit individual need. The pneumatic height adjustment has an adjustment stroke of 100±0.3mm. The pedestal is high pressure die cast polished aluminium &amp; fitted with 5 nos. of twin wheel castors. The pedestal is 650±0.5mm pitch centre dia. (750±1.0mm with castors). 5 nos. of twin wheel castors are injection moulded in plastic having 60±0.1mm wheel diameter and assembled to pedestal.</p>	No	1
10	VISITOR CHAIR	<p>Providing and Placing Visitors Chair with overall size of 609 W m x 642 D mm x 982 H mm x 448 Seat Height mm. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> and 25mm thick having density 32kg/m<sup>3</sup> in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. Seat Size is 470 W mm x 480 D mm. The back is cushioned made of PU foam with insitu molded M.S. ERW round tube of size 19±0.03mm x 1.6±0.0128mm, upholstered with leatherette. The back size is 477 W mm x 601 H mm. The tubular frame is cantilever type and made of Ø25.4±0.03mm x 2±0.016 mm thick chrome plated MS CRCA tube.</p>	No	4
11	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	1

12	MID BACK CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	1
13	4 DOOR FILLING	Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 440mm (W) X 620mm (D) X 1310mm (H). The cabinet shall be supplied with 4 nos. of drawer. The drawer shall be operated with aesthetically appealing snap fit ABS plastic handle and ball bearing base telescopic channel. All drawers shall be synchronized locked with central locking mechanism by one single key. Uniformly distributed load capacity of each drawer shall be 15/20 Kg. The entire body panel, shelf shall be made of prime quality 0.8mm thick CRCA sheet of grade 'D' confirming to IS: 513. To protect the ball from kicks, abrasion and serve as a decorative moulding skirting shall be provided at the bottom of the cabinet. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ thick.	No	2
14	4 DOOR BOOKCASE	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	No	2
15	3 SEATER SOFA	Supplying and placing a three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> . The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 1810±10 mm(W), seat height = 440±10 mm, overall width = 2120±10 mm, overall depth = 935±10 mm & overall height = 850±10 mm.	No	1

16	1 SEATER SOFA	Supplying and placing a single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> . The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 620±10 mm(W), seat height = 440±10 mm, overall width = 920±10 mm, overall depth = 935±10 mm & overall height = 850±10 mm.	No	2
17	CENTRE TABLE	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The side clad of the table shall be 18mm thick particle board. The under structure shall consist of SS 202 grade pipe frame cross-section area 50mm X 10mm. There shall be PPCP shoe provided at the base to avoid scratches on the floor.	No	1
18	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	1
19	OFFICE TABLE	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.	No	1



20	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	1
21	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	6
22	4 DOOR FILLING	<p>Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 440mm (W) X 620mm (D) X 1310mm (H). The cabinet shall be supplied with 4 nos. of drawer. The drawer shall be operated with aesthetically appealing snap fit ABS plastic handle and ball bearing base telescopic channel. All drawers shall be synchronized locked with central locking mechanism by one single key. Uniformly distributed load capacity of each drawer shall be 15/20 Kg. The entire body panel, shelf shall be made of prime quality 0.8mm thick CRCA sheet of grade 'D' confirming to IS: 513. To protect the ball from kicks, abrasion and serve as a decorative moulding skirting shall be provided at the bottom of the cabinet. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ thick.</p>	No	4
23	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	1

24	TABLE 1350 X750	Providing and supplying executive table with an overall size 1350mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	2
25	MID BACK CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	2
26	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	4
27	WOODEN STORAGE	Storage 1950x900x450 mm	No	1

28	MODULAR WORKSTATION	<p>Supplying &amp; Placing workstation table in completely knock down conditions with an overall size 1560mm X 1560mm X 1200mm that is to be assembled at site. The worktop shall have the size 1500mm/600mm X 1500mm/600mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in curvilinear shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on particle board base gable end. The end wall of the top shall be topped by gable end. It should be made up of 25mm thick Pre-laminated particle board and the profile shall be in linear shape with appropriate PVC edge banding. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The workstation shall have panel based partition of 60 mm thick with overall height 1200mm. The partition shall be linear in profile and provided in front side of user. The top trim, top bar, mid bar, vertical bar, raceway, skirting shall be made up of aluminium extrusions (pre-treated) and duly powder coated with 40-60µ thick. The trims shall have the size 60mm X 19mm with 1.5mm thick covered with Die cast end caps on joints 2 ways, 3 ways &amp; 4 ways (L-cover for corner, T-cover for middle section wherever required). The aluminium raceway shall be situated below the worktop with an overall size 116mm(H) X 60mm(D) with 1.4 mm cover thickness and 2mm back thickness as per requirement of inlaying the electrical management and carrying the wire horizontally. The exposed vertical and horizontal faces of the frames shall be snap fitted with trims. There shall be soft-board (with fabric) provided at front of the user. Laminated bottom tile shall be situated below the work top. The Partition shall have concealed wire management capabilities and should be engaged for responsive and safe operations of power, telecommunications and data (LAN) and has separate components for electrical, data and telephone cables having adequate capability of both the vertical and horizontal wire movements. Slots/cut-outs should be given on raceways to fix all electrical and data points. Zinc coated small top support brackets shall be fixed on the partition for table top support. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be situated at bottom. Adjustable leveller shoe shall be provided at bottom of the partition to avoid scratches on the floor. Mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted on injection moulded nylon castor. A nylon castor based CPU unit shall be provided with an overall size 470mm X 286mm with 18mm thick Pre-laminated particle board.</p>	No	35
29	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	35

30	25 SEATER TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 9000mm X 1500mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix, dowels, pins and brackets. The worktop shall have the combination of PLPB board and MDF board. The main top should be made up of back to back 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and the base top shall be made up of 25mm thick Medium density fibre-board with deco matt finish. The table top profile shall be boat like shape with round corners. The edges edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius and the base top shall be with half round post form with grooves. Single sided Flip-up box should be enclosed at table top that houses video, audio, data and power connection discretely. Wire carrier shall be provided below the table top for power connection made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. The table shall be supported on particle board base gable end. The end wall of the table on the side and mid shall be topped by gable end. It should be made up of 36mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between.</p>	No	1
31	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	1
32	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	1
33	HIGH BACK CHAIR	<p>Providing and supplying high back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat &amp; overall height = 1150±10 mm.</p>	No	25

**Physics (FF)**

1	TEACHER TABLE	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.	No	5
2	TEACHER CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat & overall height = 960±10 mm.	No	5
3	3 SEATER DESK CUM BENCH	DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure: All side metal frames and cross connectors are made from combination of 25.4 x 1.2 mm thk (approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating. Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk (approx. 18 SWG) rectangular ERW tubes (As per IS:7138). The tubes are coated with min. 45 micron thickness of epoxy polyester coating. The storage shelves are made from 0.6 mm thk MS sheet (As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet (As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aesthetic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.	No	65

4	TABLE 1500 X 750	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.	No	10
5	MID BACK CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat & overall height = 960±10 mm.	No	10
6	VISITOR CHAIR	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat & overall height = 890±10mm(H), overall Depth = 645±10mm(D)	No	20

7	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	10
8	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	10
9	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	5
10	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	21

11	MODULAR WORKSTATION	<p>Supplying &amp; Placing workstation table in completely knock down conditions with an overall size 1560mm X 1560mm X 1200mm that is to be assembled at site. The worktop shall have the size 1500mm/600mm X 1500mm/600mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in curvilinear shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on particle board base gable end. The end wall of the top shall be topped by gable end. It should be made up of 25mm thick Pre-laminated particle board and the profile shall be in linear shape with appropriate PVC edge banding. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The workstation shall have panel based partition of 60 mm thick with overall height 1200mm. The partition shall be linear in profile and provided in front side of user. The top trim, top bar, mid bar, vertical bar, raceway, skirting shall be made up of aluminium extrusions (pre-treated) and duly powder coated with 40-60µ thick. The trims shall have the size 60mm X 19mm with 1.5mm thick covered with Die cast end caps on joints 2 ways, 3 ways &amp; 4 ways (L-cover for corner, T-cover for middle section wherever required). The aluminium raceway shall be situated below the worktop with an overall size 116mm(H) X 60mm(D) with 1.4 mm cover thickness and 2mm back thickness as per requirement of inlaying the electrical management and carrying the wire horizontally. The exposed vertical and horizontal faces of the frames shall be snap fitted with trims. There shall be soft-board (with fabric) provided at front of the user. Laminated bottom tile shall be situated below the work top. The Partition shall have concealed wire management capabilities and should be engaged for responsive and safe operations of power, telecommunications and data (LAN) and has separate components for electrical, data and telephone cables having adequate capability of both the vertical and horizontal wire movements. Slots/cut-outs should be given on raceways to fix all electrical and data points. Zinc coated small top support brackets shall be fixed on the partition for table top support. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be situated at bottom. Adjustable leveller shoe shall be provided at bottom of the partition to avoid scratches on the floor. Mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted on injection moulded nylon castor. A nylon castor based CPU unit shall be provided with an overall size 470mm X 286mm with 18mm thick Pre-laminated particle board.</p>	No	30
14	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	30
<b>Physics (2nd Floor)</b>				



1	TEACHER TABLE	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	No	7
2	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	4
3	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aesthetic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	100

4	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	7
5	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	7
6	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	14

7	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	7
8	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	7
9	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	7
10	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	14

11	10 SEATER DISCUSSION TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 4200mm X 1500mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix, dowels, pins and brackets. The worktop shall have the combination of PLPB board and MDF board. The main top should be made up of back to back 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and the base top shall be made up of 25mm thick Medium density fibre-board with deco matt finish. The table top profile shall be boat like shape with round corners. The edges edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius and the base top shall be with half round post form with grooves. Single sided Flip-up box should be enclosed at table top that houses video, audio, data and power connection discretely. Wire carrier shall be provided below the table top for power connection made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. The table shall be supported on particle board base gable end. The end wall of the table on the side and mid shall be topped by gable end. It should be made up of 36mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between.</p>	No	1
12	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	1
13	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	2

14	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	1
15	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	1
16	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	10

17	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 $\mu$ .	No	9
18	VISITOR CHAIR	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60 $\mu$ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465 $\pm$ 10 mm(Width) X 460 $\pm$ 10 mm(Depth) and back size shall be 480 $\pm$ 10 (Width) X 520 $\pm$ 10 mm(Height) from seat & overall height = 890 $\pm$ 10mm(H), overall Depth = 645 $\pm$ 10mm(D)	No	20
19	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 $\mu$ .	No	1
20	CENTRE TABLE	Providing and Placing in position Centre Table. The top shall be made of which shall be 12 $\pm$ -0.3mm thick black tinted toughened glass UV glued with bushes made in SS 202 grade for fixing with understructure. It shall be a welded assembly made in SS202 grade having dia. 12 $\pm$ -0.04 as per IS:1762. overall dimensions of table shall be Width of table= 1200 mm, Depth=600 mm, height=450 mm.	No	3
<b>Physics (3rd Floor)</b>				

1	CUSHION CHAIR WITH DESKLET	<p>1) SEAT / BACK: The seat sub-assembly should be made up of 1.2±0.1cm thk Plywood upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The seat can tip-up when not in use and thshould be feature can be used while stacking the chairs horizontally The back sub-assembly should be made up of injection-moulded polypropylene inner upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The contoured back with width extension at the bottom should be a should be designed to give comfort to lower back. The back flexing features allows the back to tilt by 9c±2' to aid the user in adopting a comfortable reclining posture. Both these sub-assemblies should be fixed to the tubular structure,  BACK SIZE: 45.2cm (W) X 44.6cm (I-I)  SEAT SIZE: 47.0cm (W) X 50.0cm (D)</p> <p>2) TUBULAR FRAME STRUCTURE: The powder-coated 4 leg structure should be made of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E.R.W. Tube front and rear leg welded along with connecting tube made of 1.9 ±-0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube to form the tubular frame assembly. The legs should be provided with injection-moulded adopter bush in black Nylon and brake-loaded castors enabling easy maneuvering while not in use and stable sitting while in use_ The chairs can be stacked horizontally when not in use_</p> <p>3) POLYURETHANE FOAM: The Polyurethane foam should be moulded with density = 70.0 ±8.0 kg/m<sup>3</sup> and Hardness = 20 ±2 for Seat &amp; 16 ±2 for back at 25% compression.</p> <p>4) ARMRESTS: The armrest structure should be made up of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E R.W. Tube welded to the Tubular Frame structure and having a scratch-resistant tant ABS Arm top.</p> <p>5) FULL DESKLET: The Full Desklet assembly should be Flip-up type and should be made up of extension tube of 1.9 ±0.02cm dia x 0_2 ±0.016cm thk PAS. E.R.W. Tube and a support tube on L.H. side of 1.6 ±0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube on which an scratch resistant tant ABS desklet top should be fixed and covered on bottom side with a bottom cover.</p> <p>6) BRAKE-LOADED CASTORS : The brake-loaded castors should be assembled to the chair legs, to give a free movement for maneuvering the chair when not in use and it will brake the movement when load should be applied (while in use) to give a stable feel. The twin wheel castors should be injection molded in black Polypropylene.</p> <p>Overall Dimensions of Chair  Seat Height - 47.5 cm.  Height - 89.0cm.  Width &amp; Depth of Chair as measured from base - Width-66.5cm and Depth-84.0 cm.</p>	No	175
2	DIAS TABLE	<p>Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.</p>	No	5

3	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, facia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	6
4	MID BACK CHAIR	<p>Providing and supplying a medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> with fabric tapestry and the back shall be made of polypropylene net cover upholstered with breathable mesh tapestry. The backrest shall be made by keeping the natural curvature of the spine and cushion base adjustable lumbar support which helps to provide full back support. The chair shall be supplied with black integral adjustable polyurethane arm. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged injection moulded in 30% glass filled nylon having pitch circle dia. 660 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested 98,000 cycles with 250lbs load. The seat size shall be 500±10 mm(D) X 500±10 mm(W) and back size shall be 450±10 mm(W) X 530±10 mm(H) from seat. Overall height shall be = 960±10 mm &amp; overall width/depth = 760±10 mm.</p>	No	16
5	VISITOR CHAIR	<p>Providing and supplying visitor chair. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience polyurethane foam 25mm thick having density 40kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of MS pipe frame upholstered with breathable mesh tapestry. The armrest shall be used wooden arm mounted on MS pipe frame. The frame structure shall be supported by four legs made up of MS/CRCA powder coated with 50-60µ (DFT) round pipe of Dia 22.2mm with 1.5mm thick. There shall be plastic shoe provided at the base to avoid scratches on the floor. The seat size shall be 470±10 mm(W) X 440±10 mm(D) and back size shall be 400±10 mm(H) from seat &amp; overall height = 850±10 mm.</p>	No	70



6	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	6
7	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	6
8	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	7
9	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	12

10	10 SEATER DISCUSSION TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 3000mm X 1150mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall have the size 2700mm X 900mm made up of 2 nos. 25mm thick Pre-laminated particle board of grade II of IS 12823 with one side laminate and finish as per approved shade. The table top profile shall be in rectangle shape with round front and back and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edgebander machine at 200 0C. The table shall be supported by particle board base gable end. The end wall of the table on the side shall be topped by gable end. The gable end shall have the size 900mm X 715mm. The gable end shall be made up of 25mm thick Pre-laminated particle board and profile shall be in linear shape with full round post form and other edges sealed with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. The modesty panel shall have an overall size 1200mm X 600mm with 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between. ,</p> <p>Note:- With Two Nos Flip Box.</p>	No	1
11	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60μ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	20

12	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	3
13	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	1
14	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	1

15	MID BACK CHAIR	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m <sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat & overall height = 990±10 mm.	No	1
16	4 DOOR METAL BOOKCASE	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	No	3
17	HIGH BACK CHAIR	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat & overall height = 1150±10 mm.	No	30

**Sub-Total**

**Department of Law (GF)**

1	TEZCHER TABLE	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	No	3
2	TEACHER CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	3
3	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aesthetic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	60

4	3 SEATER SOFA	Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m <sup>3</sup> . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have Gold plated 75 mm Height. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat height = 430±10 mm, overall width = 1900±10 mm, overall depth = 860±10 mm & overall height = 870±10 mm.	No	4
5	1 SEATER SOFA	Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m <sup>3</sup> . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have Gold plated 75 mm Height. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat height = 430±10 mm, overall width = 1010±10 mm, overall depth = 860±10 mm & overall height = 870±10 mm.	No	2
6	CENTRE TABLE	Supplying & placing center table with an overall size 900mm X 900mm X 450mm. The top of the table shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade. The top profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS rectangle pipe frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of MS/CRCA four legs having Dia. 38mm at upper and 28mm at lower. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	3
7	TABLE 1500 X 750	Supplying & Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.	No	6

8	HIGH BACK CHAIR	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat & overall height = 1150±10 mm.	No	6
9	EXECUTIVE TABLE	Office Table, MDF Structure, Membrane Size:- W2400 X D2100 X 750mm	No	1
10	HIGH BACK CHAIR	Providing and Placing High Back Chair with overall size of 761 mm W x 761 mm D x 1127 – 1302 mm H x 430 – 530 mm Seat Height. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> and 25mm thick having density 32kg/m <sup>3</sup> in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. Seat Size is 470 W mm x 480 D mm. The back is cushioned made of PU foam with inset molded M.S. ERW round tube of size 19±0.03mm x 1.6±0.0128mm, upholstered with leatherette. The back size is 477 W mm x 765 H mm. The armrest top is molded from polyurethane and mounted on to a drop lift adjustable type tubular armrest support made of Ø38±0.03mm x 2±0.01mm thick M.S. ERW tube having chrome plated finish. The armrest is height adjustable up to 65±0.5 mm in 5 steps. The Synchro Knee Tilt mechanism is designed with following features : 360° revolving type. The mechanism housing is made up of HPDC aluminium black powder coated. Seat depth adjustment is integrated in the seat through a sliding mechanism. Seat depth adjustment range is of 60±0.5mm. Back frame is connected to the up/down mechanism in plastic T spine. It can be adjusted in the range of 7.42±0.5 comfort the comfortable back support to suit individual need. The pneumatic height adjustment has an adjustment stroke of 100±0.3mm. The pedestal is high pressure die cast polished aluminium & fitted with 5 nos. of twin wheel castors. The pedestal is 650±0.5mm pitch centre dia. (750±1.0mm with castors). 5 nos. of twin wheel castors are injection moulded in plastic having 60±0.1mm wheel diameter and assembled to pedestal.	No	1
11	VISITOR CHAIR	Providing and Placing Visitors Chair with overall size of 609 W m x 642 D mm x 982 H mm x 448 Seat Height mm. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> and 25mm thick having density 32kg/m <sup>3</sup> in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. Seat Size is 470 W mm x 480 D mm. The back is cushioned made of PU foam with insitu molded M.S. ERW round tube of size 19±0.03mm x 1.6±0.0128mm, upholstered with leatherette. The back size is 477 W mm x 601 H mm. The tubular frame is cantilever type and made of Ø25.4±0.03mm x 2±0.016 mm thick chrome plated MS CRCA tube.	No	3

12	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	1
13	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	1
14	4 DOOR FILLING	<p>Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 440mm (W) X 620mm (D) X 1310mm (H). The cabinet shall be supplied with 4 nos. of drawer. The drawer shall be operated with aesthetically appealing snap fit ABS plastic handle and ball bearing base telescopic channel. All drawers shall be synchronized locked with central locking mechanism by one single key. Uniformly distributed load capacity of each drawer shall be 15/20 Kg. The entire body panel, shelf shall be made of prime quality 0.8mm thick CRCA sheet of grade 'D' confirming to IS: 513. To protect the ball from kicks, abrasion and serve as a decorative moulding skirting shall be provided at the bottom of the cabinet. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ thick.</p>	No	2
15	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	2



16	3 SEATER SOFA	Supplying and placing a three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> . The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 1810±10 mm(W), seat height = 440±10 mm, overall width = 2120±10 mm, overall depth = 935±10 mm & overall height = 850±10 mm.	No	1
17	1 SEATER SOFA	Supplying and placing a single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> . The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 620±10 mm(W), seat height = 440±10 mm, overall width = 920±10 mm, overall depth = 935±10 mm & overall height = 850±10 mm.	No	2
18	CENTRE TABLE	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The side clad of the table shall be 18mm thick particle board. The under structure shall consist of SS 202 grade pipe frame cross-section area 50mm X 10mm. There shall be PPCP shoe provided at the base to avoid scratches on the floor.	No	1
19	OFFICE TABLE	Office Table, MDF Structure, Membrane Size:- W2400 X D2100 X 750mm	No	1
20	MID BACK CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat & overall height = 960±10 mm.	No	1

21	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	3
22	10 SEATER DISCUSSION TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 3000mm X 1150mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall have the size 2700mm X 900mm made up of 2 nos. 25mm thick Pre-laminated particle board of grade II of IS 12823 with one side laminate and finish as per approved shade. The table top profile shall be in rectangle shape with round front and back and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edgebander machine at 200 0C. The table shall be supported by particle board base gable end. The end wall of the table on the side shall be topped by gable end. The gable end shall have the size 900mm X 715mm. The gable end shall be made up of 25mm thick Pre-laminated particle board and profile shall be in linear shape with full round post form and other edges sealed with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. The modesty panel shall have an overall size 1200mm X 600mm with 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between. , Note:- With Two Nos Flip Box.</p>	No	1
23	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	10
<b>Law (First Floor)</b>				

1	TEACHER TABLE	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	No	2
2	TEACHER CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	2
3	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aesthetic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	40

4	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	7
5	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	7
6	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	14

7	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	7
8	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	7
9	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	7
10	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure</p>	No	14

11	CHAIR WITH WRITING DESKLET	<p>1) SEAT / BACK: The seat sub-assembly should be made up of 1.2±0.1cm thk Plywood upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The seat can tip-up when not in use and thshould be feature can be used while stacking the chairs horizontally The back sub-assembly should be made up of injection-moulded polypropylene inner upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The contoured back with width extension at the bottom should be a should be designed to give comfort to lower back. The back flexing features allows the back to tilt by 9c±2' to aid the user in adopting a comfortable reclining posture. Both these sub-assemblies should be fixed to the tubular structure,</p> <p>BACK SIZE: 45.2cm (W) X 44.6cm (I-I) SEAT SIZE: 47.0cm (W) X 50.0cm (D)</p> <p>2) TUBULAR FRAME STRUCTURE: The powder-coated 4 leg structure should be made of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E.R.W. Tube front and rear leg welded along with connecting tube made of 1.9 ±0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube to form the tubular frame assembly. The legs should be provided with injection-moulded adopter bush in black Nylon and brake-loaded castors enabling easy maneuvering while not in use and stable sitting while in use_ The chairs can be stacked horizontally when not in use_</p> <p>3) POLYURETHANE FOAM: The Polyurethane foam should be moulded with density = 70.0 ±8.0 kg/m<sup>3</sup> and Hardness = 20 ±2 for Seat &amp; 16 ±2 for back at 25% compression.</p> <p>4) ARMRESTS: The armrest structure should be made up of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E R.W. Tube welded to the Tubular Frame structure and having a scratch-resistant tant ABS Arm top.</p> <p>5) FULL DESKLET: The Full Desklet assembly should be Flip-up type and should be made up of extension tube of 1.9 ±0.02cm dia x 0.2 ±0.016cm thk PAS. E.R.W. Tube and a support tube on L.H. side of 1.6 ±0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube on which an scratch resistant tant ABS desklet top should be fixed and covered on bottom side with a bottom cover.</p> <p>6) BRAKE-LOADED CASTORS : The brake-loaded castors should be assembled to the chair legs, to give a free movement for maneuvering the chair when not in use and it will brake the movement when load should be applied (while in use) to give a stable feel. The twin wheel castors should be injection molded in black Polypropylene.</p> <p>Overall Dimensions of Chair Seat Height - 47.5 cm. Height - 89.0cm. Width &amp; Depth of Chair as measured from base - Width-66.5cm and Depth-84.0 cm.</p>	No	70
<b>Law (2nd Floor)</b>				
1	TEACHER TABLE	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	Each	3

2	TEACHER CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	3
3	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aesthetic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	60

4	TABLE 1500 X 750	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	7
5	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	7
6	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	14



7	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	7
8	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	7
9	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	7
10	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	7

11	SINGLE SIDED BOOK RACK	<p>Providing, supplying and placing an open display book racks. The overall size of the rack shall be 925mm (W) X 300mm (D) X 1800mm (H). The rack shall be supplied with 4 nos. of adjustable shelves i.e. 5 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common panel. Back panel up to the bottom of third rack shall have additional rigidity. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 80 kg maximum. Each rack shall be provided with stiffener at bottom for strength. Label holder &amp; range indicators on each main unit for inserting labels. All steel components shall be epoxy polyester powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure</p>	No	3
12	OFFICE TABLE 1500X 750	<p>Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	No	2
13	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	2

14	VISITOR CHAIR	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat & overall height = 890±10mm(H), overall Depth = 645±10mm(D)	No	20
15	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	1
16	4 DOOR BOOKCASE	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	No	1
17	OFFICE TABLE 1500X 750	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	No	3

18	MID BACK CHAIR	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat & overall height = 960±10 mm.	No	3
19	VISITOR CHAIR	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m <sup>3</sup> in seat and 40mm thick having density 32Kg/m <sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat & overall height = 890±10mm(H), overall Depth = 645±10mm(D)	No	6
20	ALMIRAH	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	No	1
21	4 DOOR FILLING	Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 440mm (W) X 620mm (D) X 1310mm (H). The cabinet shall be supplied with 4 nos. of drawer. The drawer shall be operated with aesthetically appealing snap fit ABS plastic handle and ball bearing base telescopic channel. All drawers shall be synchronized locked with central locking mechanism by one single key. Uniformly distributed load capacity of each drawer shall be 15/20 Kg. The entire body panel, shelf shall be made of prime quality 0.8mm thick CRCA sheet of grade 'D' confirming to IS: 513. To protect the ball from kicks, abrasion and serve as a decorative moulding skirting shall be provided at the bottom of the cabinet. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ thick.	No	1

22	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	1
23	COMPUTER CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	1
<b>Law (3rd Floor)</b>				

1	CHAIR WITH WRITING DESKLET	<p>1) SEAT / BACK: The seat sub-assembly should be made up of 1.2±0.1cm thk Plywood upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The seat can tip-up when not in use and thshould be feature can be used while stacking the chairs horizontally The back sub-assembly should be made up of injection-moulded polypropylene inner upholstered with moulded foam and polyester fabric and covered with an injection-moulded polypropylene outer cover. The contoured back with width extension at the bottom should be a should be designed to give comfort to lower back. The back flexing features allows the back to tilt by 9c±2' to aid the user in adopting a comfortable reclining posture. Both these sub-assemblies should be fixed to the tubular structure,</p> <p>BACK SIZE: 45.2cm (W) X 44.6cm (I-I) SEAT SIZE: 47.0cm (W) X 50.0cm (D)</p> <p>2) TUBULAR FRAME STRUCTURE: The powder-coated 4 leg structure should be made of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E.R.W. Tube front and rear leg welded along with connecting tube made of 1.9 ±0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube to form the tubular frame assembly. The legs should be provided with injection-moulded adopter bush in black Nylon and brake-loaded castors enabling easy maneuvering while not in use and stable sitting while in use_ The chairs can be stacked horizontally when not in use_</p> <p>3) POLYURETHANE FOAM: The Polyurethane foam should be moulded with density = 70.0 ±8.0 kg/m<sup>3</sup> and Hardness = 20 ±2 for Seat &amp; 16 ±2 for back at 25% compression.</p> <p>4) ARMRESTS: The armrest structure should be made up of 2.2 ±0.03cm dia x 0.25 ±0.02cm thk M.S. E R.W. Tube welded to the Tubular Frame structure and having a scratch-resistant tant ABS Arm top.</p> <p>5) FULL DESKLET: The Full Desklet assembly should be Flip-up type and should be made up of extension tube of 1.9 ±0.02cm dia x 0.2 ±0.016cm thk PAS. E.R.W. Tube and a support tube on L.H. side of 1.6 ±0.02cm dia x 0.2 ±0.016cm thk M.S. E.R.W. Tube on which an scratch resistant tant ABS desklet top should be fixed and covered on bottom side with a bottom cover.</p> <p>6) BRAKE-LOADED CASTORS : The brake-loaded castors should be assembled to the chair legs, to give a free movement for maneuvering the chair when not in use and it will brake the movement when load should be applied (while in use) to give a stable feel. The twin wheel castors should be injection molded in black Polypropylene.</p> <p>Overall Dimensions of Chair Seat Height - 47.5 cm. Height - 89.0cm. Width &amp; Depth of Chair as measured from base - Width-66.5cm and Depth-84.0 cm.</p>	No	210
2	TABLE	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	No	5

3	TEACHER TABLE	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.2mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership &amp; AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	No	1
4	TEACHER CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	1
5	3 SEATER DESK CUM BENCH	<p>DESK CUM BENCH OF 3 SEATER FOR STUDENTS - With overall size of W 1700 x D 1060 x H 750 ; Desk-Top Panel- All panels are made from 18mm thk Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage. Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thk(approx. 18 SWG). The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thk(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating.The storage shelves are made from 0.6 mm thk MS sheet(As per IS:513) fixed below the radesk top panel and are coated with min. 45 micron thickness of epoxy polyester coating. Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thk MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating. The understructure is assembled using M6 screws. Plastic Caps made of PP copolymer are also provided on the rear frames adding more aestheic value to the product. M6 high tensile TVS make bolt with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm. Seat H - 450, D - 300, Back Height - 150, Desk D - 400, Storage Shelf : D - 300.</p>	No	17

6	25 SEATER TABLE	<p>Supplying &amp; Placing Conference table in completely knock down conditions with an overall size 9000mm X 1500mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix, dowels, pins and brackets. The worktop shall have the combination of PLPB board and MDF board. The main top should be made up of back to back 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and the base top shall be made up of 25mm thick Medium density fibre-board with deco matt finish. The table top profile shall be boat like shape with round corners. The edges edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius and the base top shall be with half round post form with grooves. Single sided Flip-up box should be enclosed at table top that houses video, audio, data and power connection discretely. Wire carrier shall be provided below the table top for power connection made of 0.8mm thick high yield strength CRCA sheet of grade 'D' conforming to IS:513. The table shall be supported on particle board base gable end. The end wall of the table on the side and mid shall be topped by gable end. It should be made up of 36mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between.</p>	No	1
7	HIGH BACK CHAIR	<p>Providing and supplying high back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded PU adjustable arm completely joint with seat. For seating durability the chair shall have ACTICE BIO-SYNCHRO mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of MS/crca chrome plated having pitch circle dia.. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 520±10 mm(W) X 500±10 mm(D) and back size shall be 495±10 mm(W) X 750±10(H) from seat &amp; overall height = 1150±10 mm.</p>	No	25



8	TABLE	<p>Supplying &amp; Placing Modular table in completely knock down conditions with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board.</p>	No	7
9	MID BACK CHAIR	<p>Providing and supplying medium back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 mm(W) X 520±10 mm(H) from seat &amp; overall height = 960±10 mm.</p>	No	7
10	VISITOR CHAIR	<p>Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m<sup>3</sup> in seat and 40mm thick having density 32Kg/m<sup>3</sup> in back. The same shall be upholstered with fabric tapestry 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(Width) X 460±10 mm(Depth) and back size shall be 480±10 (Width) X 520±10 mm(Height) from seat &amp; overall height = 890±10mm(H), overall Depth = 645±10mm(D)</p>	No	14

11	COMPUTER TABLE	<p>Supplying &amp; placing computer desk of size 1200mm(W) X 600mm(D) X 750mm(H). It should have work top made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top board shall be supported on fixed pedestal at one end and fixed CPU unit at another end. The desk shall be clad with 18mm thick modesty panel which provide structural support for the desk. It should be 18mm thick pre-laminate particle board connected with both end. Key-board tray shall be provided 18mm thick pre-laminated particle board with an overall size 550mm X 350mm. The tray shall be operated by sliding channel runs on nylon roller to smooth operation. Fixed pedestal shall be provided at one side with the size 335mm X 470mm X 725mm having 3 drawer operated on sliding channel and 1 filing drawer having operated on ball bearing channel. All drawer shall be operated with SS handle with multi purpose (MP) locking mechanism. Openable storage shall be provided at another side with the size 294mm X 450mm X 725mm having one adjustment shelf to accumulate CPU. Complete understructure made in 18mm thick Pre-laminated particle board with appropriate edge banding and drawer base shall be 9mm thick. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom.</p>	No	7
12	MID BACK CHAIR	<p>Providing and supplying mid back chair with ergonomic design, comfortable &amp; aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m<sup>3</sup> with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460±10 mm(W) X 455±10 mm(D) and back size shall be 550±10 mm(H) from seat &amp; overall height = 990±10 mm.</p>	No	7
13	ALMIRAH	<p>Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. All components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &amp; door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.</p>	No	7
14	4 DOOR BOOKCASE	<p>Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. All components shall be made of 0.8mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel &amp; smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60µ. Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level &amp; support structure.</p>	No	7