

**INVITATION TO TENDER
AND
INSTRUCTIONS TO TENDERERS**



**JNTU COLLEGE OF ENGINEERING PULIVENDULA
KADAPA DISTRICT, PIN – 516 390**

JNTU College Of Engineering, Pulivendula

INVITATION TO TENDER AND INSTRUCTIONS TO TENDERERS FOR THE SUPPLY OF FURNITURE, BOOKS AND LAB EQUIPMENT

JNTU College Of Engineering, Pulivendula invites tenders for the supply of Furniture, Books and Lab Equipment, for JNTU College of Engineering, Pulivendula, Kadapa District, as per specifications given in the schedules attached to the Tender form annexed hereto. All offers should be made in English and should be written in both figures and words.

The tender schedules can be obtained from the Principal, JNTU College of Engineering, Pulivendula on payment of Rs.1,000/- (Rupees One Thousand only) in the form of crossed Demand Draft on any Nationalized Bank drawn in favour of the "Principal, JNTU College of Engineering, Pulivendula" payable at Pulivendula. Alternatively the tender schedules can be down loaded from the website **www.jntuanantapur.org**. Such vendors who use downloaded tender schedules for submitting bids must enclose a demand draft for Rs.1000/- towards the tender fee along with the bid in addition to EMD otherwise the bid will be rejected.

Tender fee once paid is neither refundable nor adjustable for other tenders.

The JNTU College of Engineering, Pulivendula reserves the right to select certain items (in single or multiple units) and reject the others mentioned in the schedule. The institution reserves the right to place the orders for individual items with different vendors. The JNTU College of Engineering, Pulivendula also reserves the right to revise or alter the specifications of the Lab Equipment before acceptance of any tender.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored, and rejected.

EMD:

A Demand Draft, for an amount @2% of the estimated value of the schedule(s) for which the tenderer is submitting the bid, drawn in favour of the "Principal, JNTU College of Engineering, Pulivendula" towards EMD must accompany the tender. Those without EMD will be rejected. The EMD will be refunded to all the unsuccessful tenderers only after the purchase orders are placed on the successful tenderer. The successful tenderer has to deposit an additional amount at 3% of the contract value as security money deposit.

The final acceptance of the material will be made only after delivering in good condition and subject to satisfying specifications given by the College.

Note: the tenderers who have submitted bids for the schedules E1 to E6 in response to our earlier tender notification dated 11-12-2008, need not enclose demand draft towards EMD. However, they need to pay the tender fee.

Vendor

BID PRICE:

1. The contract shall be for the full quantity as described in the tender. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
2. All duties, taxes and other levies payable by the vendor shall be included in the total price.
3. The rates quoted by the bidder shall be fixed for the duration of the contract and shall be included in the total price.
4. The Prices should be quoted in Indian Rupees only.
5. The prices should be quoted with FOR destination.
6. Packing, forwarding, insurance etc to vendors account.
7. After satisfactory installation, testing and demonstration, training has to be provided to faculty and staff to the satisfaction of the purchaser at vendor's cost.
8. All essential accessories cost must be included in the price quoted.
9. The cost of essential spares are to be quoted separately. This will be taken into consideration while bids are evaluated.
10. Price bids are to be essentially signed by the vendor or person authorized by him.
11. Each bidder shall submit only one quotation. Alternatives offer option, if any, must be quoted in separate tender schedule.

VALIDITY OF QUOTATION

Quotation shall remain valid for a period of three months after the deadline date specified for submission. The vendor shall extend the validity if required.

BIDDER QUALIFICATIONS:

1. Bidder must be a registered company with Sales Tax and Excise Departments and a true copy of the such registration should be submitted along with the bid.
2. The bidder should submit the financial turnover report for the last three years.
3. The bidders should submit the list of customers along with year of supply and details of equipment supplied.
4. The bidders should submit Satisfactory Performance Certificates from the customers of this equipment. The product approval certificate, if any, from reputed organizations may also be submitted.

Vendor

EVALUATION OF QUOTATIONS:

The purchaser will evaluate and compare the quotations determined to be substantially responsive i.e which

- a) Are properly signed; and
- b) Conform to the terms and conditions, and specifications mentioned in this
- c) The quotations unless otherwise specified would be evaluated separately for each item.
- d) If the bidder is not the Original Equipment Manufacturer (OEM) they must Provide an authorization certificate from the Original Equipment Manufacturer, stating that the bidder is an approved agent of OEM and service warranty will be guaranteed by OEM in case the agent's license is aborted or any other reason whatsoever during the warranty period.

AWARD OF CONTRACT:

The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

1. Notwithstanding the above, the purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
2. The institution reserves the right to place the orders for individual items with different tenders.

3. Right to Acceptance:

The Principal, JNTU College of Engineering, Pulivendula does not bind himself to accept the lowest on any tender and reserves to himself the right of accepting the whole or any part of the tender or portion of the quantity offered the tenderer shall supply the same at the rate quoted.

4. The bidder, whose bid is accepted, will be notified for the award of contract by the Purchaser prior to expiry of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

DELIVERY:

All the goods ordered shall be delivered with proper packing within 15 days from the date of issue of order

Vendor

TERMS OF PAYMENT:

- a) Payment shall be made by JNTU College of Engineering, Pulivendula, after delivery at the specified location, and after installation, commissioning and satisfactory demonstration of the goods with all specifications and standards to the entire satisfaction of the college.
- b) The bidder may give the details of bank and Account into which the payments are to be made.
- c) Normal commercial warranty/guarantee shall be applicable to the supplied goods.

DELIVERY OF TENDER:

Bids for each schedule of the tender is to be placed in separate envelope, clearly mentioning schedule No. on it, and all these envelopes containing quotations for individual schedules are to be placed in a bigger envelope. The Bigger Envelope must be super-scribed with the reference No.(JNTUCEP/TENDER/1-2009/ScheduleNo_____/08-09, dt:_____)

The sealed tender should be addressed to:

**The Principal,
JNTU College of Engineering,
Pulivendula,
Kadapa District,
Pin code: 516390.**

Bids in sealed covers should reach the above address latest by 16.00 hours on 22.01.2009. Tenders submitted after the specified time shall not be considered and no intimation will be sent in this regard.

The college reserves the Right to reject any tender which fails to comply with the above instructions. All tenders should be sent by Post or through messenger, to drop the tender in the sealed tender box provided in the office. It is the responsibility of the tenderer to see that his tender offer is delivered by the specified time at the above address. All further communication should be addressed to the officer named above and by title only.

Other Terms :

Tenderer should make their representative available on 22.01.2009 at 5.00 PM at the time of opening tenders in the chambers of Principal or any other designated place with in the college.

The tenderer should produce Value Added Tax (VAT)-Registration certificate.

Tenderer should be responsible and bear any price escalation within the validity period and also after the indent has been placed till the supply.

Sd/- PRINCIPAL

BID PARTICULARS

1. Name of the Supplier :
2. Address of the Supplier :

3. Address of the Show Room/Workshop :
4. Display of goods : Yes/No
5. EMD enclosed : Yes/No
DD No. _____ Bank _____ Amount _____
6. Name and address of the officer to whom all reference shall be made regarding this tender enquiry.

Name :

Address :

Telephone No. :

Fax No. :

Mobile No. :

e-mail :

web :

Vendor

FORMAT OF QUOTATION

S.No	Schedule No...(As given in the Annexure)	Description Goods	Specifications	Qty	Unit	Quoted Unit Rate in Rs.	Total Amount	
							In Figures	In words

Gross Total Cost : Rs.....

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(Amount in figures)(Rs. Amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of Months shall apply to the offered goods.

Signature for Supplier

ABSTRACT OF FURNITURE

Schedule No	Name of the Furniture	Quantity	Estimated Amount
F.1	Computer Table	175	7,00,000=00
F.2	Laboratory Stools	300	1,25,000=00
F.3	2 Seater Desks	200	8,00,000=00
F.4	Single bed cot with racks	600	39,00,000=00
F.5	Conference Table	01	70,000=00
F.6	Long Tables (Lab tables)	50	2,50,000=00
F.7	Steel Almirahs	40	5,60,000=00
F.8	Glass door almirah	20	3,00,000=00
F.9	Executive Table	10	1,40,000=00
F.10	Executive Chair	10	60,000=00
F.11	Staff Chair	20	1,00,000=00
F.12	Staff Table	20	1,50,000=00
F.13	Laboratory Chairs (Armless)	300	4,20,000=00
F.14	Seminar hall chairs	250	7,50,000=00
F.15	Modular Computer work stations to house 70 computers	2 sets	14,00,000=00
Total Estimated Amount			97,25,000=00

ABSTRACT OF EQUIPMENT

Schedule No	Name of the Furniture	Quantity	Estimated Amount
E.1	Machine Tools Lab	--	15,00,000=00
E.2	Video Conferencing system	1 unit	5,00,000=00
E.3	Desktop Computer Systems (Assembled)	25	5,00,000=00
E.4	HPLC System	01	15,00,000=00
E.5	R.O. Water Purifier System with a capacity of 300 Lr/hr.	04	4,80,000=00
E.6	Dual Trace CROs. -30 Mhz.	10	3,00,000=00
E.7	Bio Reactor	01	10,00,000=00
Total Estimated Amount			57,80,000=00

ABSTRACT OF BOOKS

Schedule No	Books	Quantity	Estimated Amount
B.1	Text Books and Reference Books	As per the list	5,00,000=00

**SCHEDULE OF FURNITURE SPECIFICATIONS, SPECIAL TERMS AND
CONDITIONS**

1. Only the technically proficient companies who have a turn over exceeding Rs.100 lakhs, annually, and who have executed projects of similar nature (at least Rs. 30.00 Lakhs in single order) in the past can submit the quotations.
2. As a proof of experience / competence, the suppliers should submit along with their quotation, a statement showing similar nature of work as detailed above executed by them and also credentials from the clients with whom there have worked for successful completion of their work. They should also submit a list of their organizations, equipment available with them.
3. The manufacturer should have in-house design and development capability to take care of any modifications required in their products to suit the needs of the Principal, JNTU College of Engineering, Pulivendula.
4. The manufacturer should be having in-house capability for manufacturing parts/components critical to furniture equipment. The manufacturer should be able to exhibit in-house capability in terms of moulding, welding, panel cutting and sizing and antirust treatment facility. Also should be having fully automated powder coating booth, router machine, edge binder machine and hot press.
5. For similar type of projects, the manufacturer must issue a letter of authorization that the vendor has carried out or capable to implement new technology solutions based on their equipments. The letter of authorization shall be signed by any person at below the rank of the Branch Manager of the region.
6. The manufacturer should have capability to provide after sales service and should be in a position to offer annual maintenance contract, at the premises of JNTU College of Engineering, Pulivendula.
7. The manufacturer should have affiliation with reputed body of furniture manufacturers and in-house testing facility for establishing performance standards of the products.
8. The supplier who do not fulfill the requisite qualifications and who do not finish documentary evidence will be summarily rejected. Any misleading information will lead to disqualification of the tender.
9. The supplier should be willing to get manufacturing capabilities inspected by the tendering committee to judge the level of competency for undertaking the project. The manufacturer has to maintain the location of the factory with all details.
10. A Proof of certifications, agreements, and rate contract from Central and State Government organization should be enclosed.
11. The supplier should submit the proof of excise duty and sales tax certifications.
12. The commercial bids should contain the following details clearly:
 - a) Unit price of each item to be installed.
 - b) Sales tax if applicable
 - c) Customs duty if applicable.
 - d) Excise Duty if applicable (acceptance of exemption certificate should be clarified).
 - e) Packing, forwarding and freight charges, if any.
 - f) Validity of quotation: 90 days.

13. The supplier while submitting the quotation should invariably submit an Income-tax Clearance Certificate.
14. Consortium agreements and MOUs will not be considered.
15. The Principal, JNTU College of Engineering, Pulivendula reserves the right to assess the capacity / capability of the suppliers in the overall interest of the institute without assigning any reason.
16. The Principal, JNTU College of Engineering, Pulivendula is not necessarily bound to accept the lowest offer / bid.
17. Payment will be made within the reasonable amount of time after the furniture is received in good condition and within the stipulated time as per the specifications laid down and after the certification by the Committee of JNTU College of Engineering, Pulivendula.
18. The furniture should be supplied within eight weeks from the date of issuing of purchase order.
19. The institution reserves the right to place the orders for individual items with different tenders.
20. The quantities indicated in the tender notifications are all subject to modification of the time of placing orders.
21. The company should produce ISO 9001:2000 and Bureau of Indian Standards license and test certificates and test reports where ever applicable

Sd/- Principal

ABSTRACT OF SCHEDULE – F.1
COMPUTER SCIENCE ENGINEERING DEPARTMENT

Computer Table

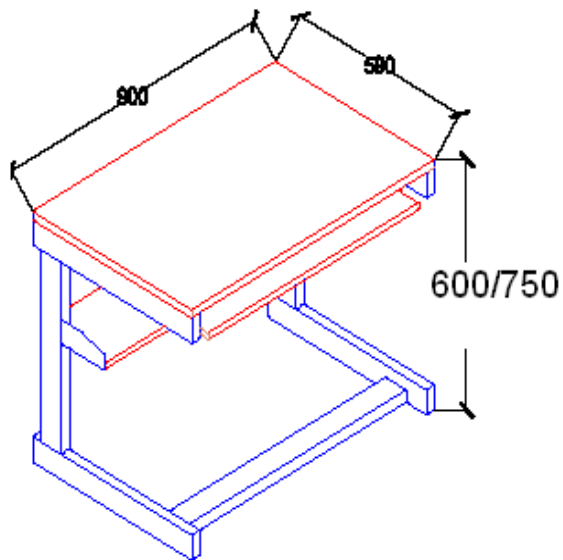
Schedule No	Name of the Equipment	Quantity
F.1	Computer table	175

Estimated Cost Rs. 7,00,000=00

Following page gives detailed specifications.

SCHEDULE-F.1

Computer table



MS CRCA frame should contain slits to adjust shelves height. The frame pipe should have 50mmX25mmX2mm thickness. The top shelf and key board tray should be made out of 18 mm thick prelam particle board, hydraulic pressed edge banding

All dimensions are in mm

ABSTRACT OF SCHEDULE – F.2

Laboratory Stool

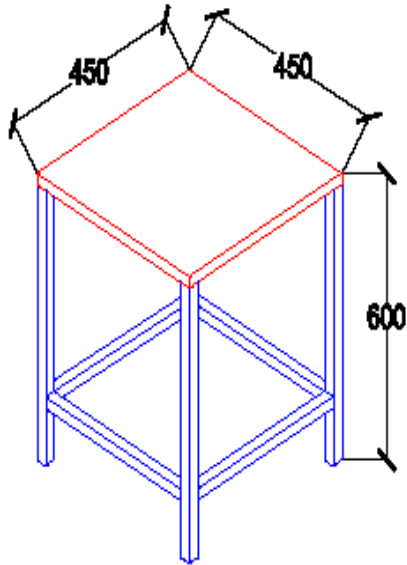
Schedule No	Name of the Equipment	Quantity
F.2	Laboratory Stools (Height: 600mm- 200 No.s) (Height: 750mm – 100 No.s)	300

Estimated Cost Rs. 1,25,000=00

Following page gives detailed specifications.

SCHEDULE-F.2

STOOL



Top to be made of 25mm thick Prelam particle board with 2mm PVC edge banding. The under structure should be made of 25 mm thick MSCRCA powder coated square pipe.

Alternatively quote for 750 mm height stool for the quantities mentioned in the abstract..

All dimensions are in mm

ABSTRACT OF SCHEDULE – F.3
Department of Academic Section

Two Seater desks

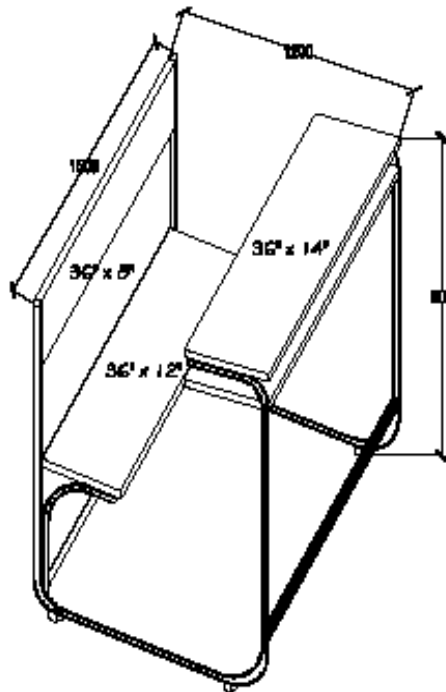
Schedule No	Name of the Equipment	Quantity
F.3	2 Seater Desks	200

Estimated Cost Rs. 8,00,000=00

Following page gives detailed specifications.

SCHEDULE-F.3

2-Seater Desks



The understructure is 25 mm thick powder coated MSCRCA square pipe. Adequate support to be provided to take the Weight. Leg rest and bag hook are to be present.

Seat, back rest and book shelf are to be made of 18 mm thick prelaminated particle board with 2mm thick hot pressed edge banding.

Note: 900, 1200,1800 dimensions are in mm

ABSTRACT OF SCHEDULE – F.4

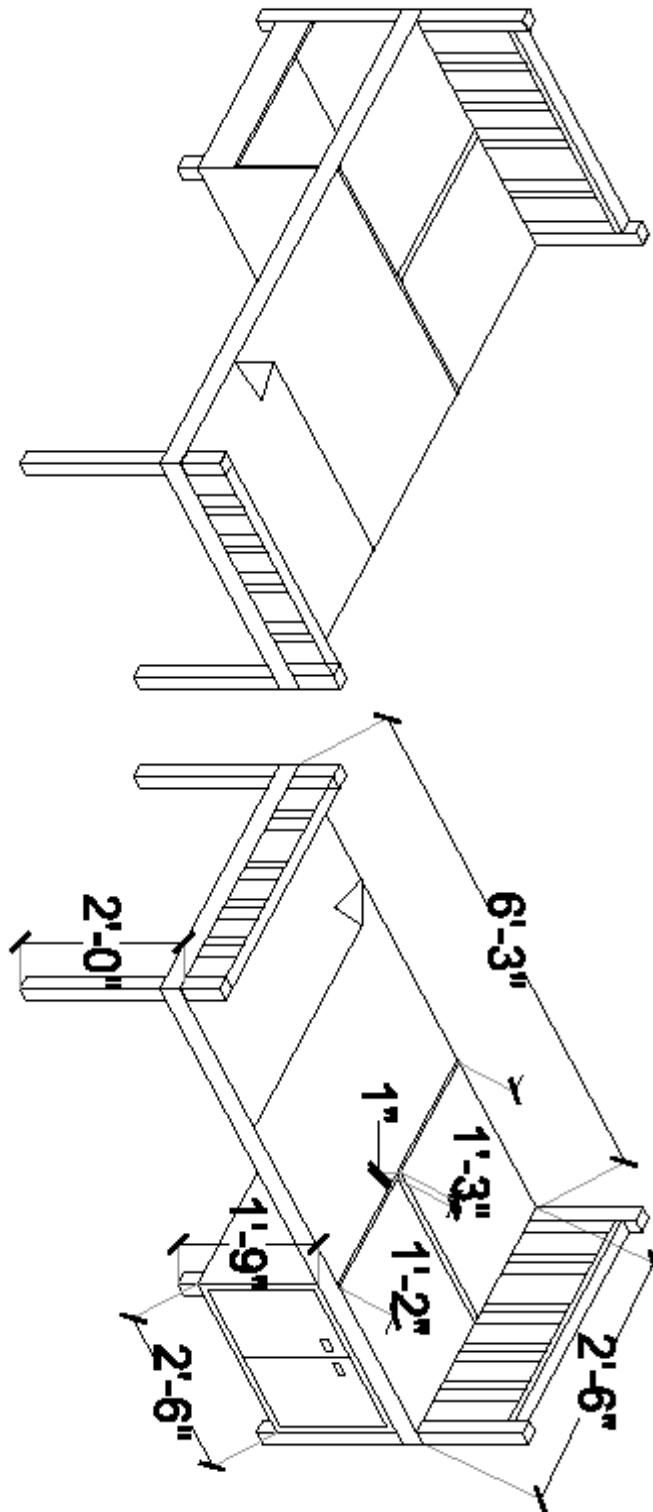
SINGLE BED COT WITH RACKS

Schedule No	Name of the Equipment	Quantity
F.4	Single bed cot with racks	600

Estimated Cost Rs. 39,00,000=00

Following page gives detailed specifications.

SCHEDULE – F.4
SINGLE BED COT WITH RACKS



Schedule –F.4

SPECIFICATIONS – SINGLE BED COT WITH RACKS

Size	:	75" X 30"
Frame	:	40 X 40 X 1.60mm Square MS CRCA Pipe.
Head Rest Pipe	:	20 x 1.6MM MS CRCA
Plywood	:	72" X 36" Plywood having thickness of 25mm manufactured by ISO 9001 Certified company.
Paint	:	Alkid Amino Liquid Paint in desired shade should be duly oven baked for long lasting finish.

Storage:

- a) Shelf of size 900 (w) X 450 (d) x 450 (h) mm with front panel as shown in drawing should be made out of prelaminated particle board.
- b) Storage unit of 2 doors with partition should have provision for pad locking. Dimensions: 900 (w) 450 (h) mm with divider and lockable 2 doors (external locking).

ABSTRACT OF SCHEDULE – F.5

CONFERENCE TABLE

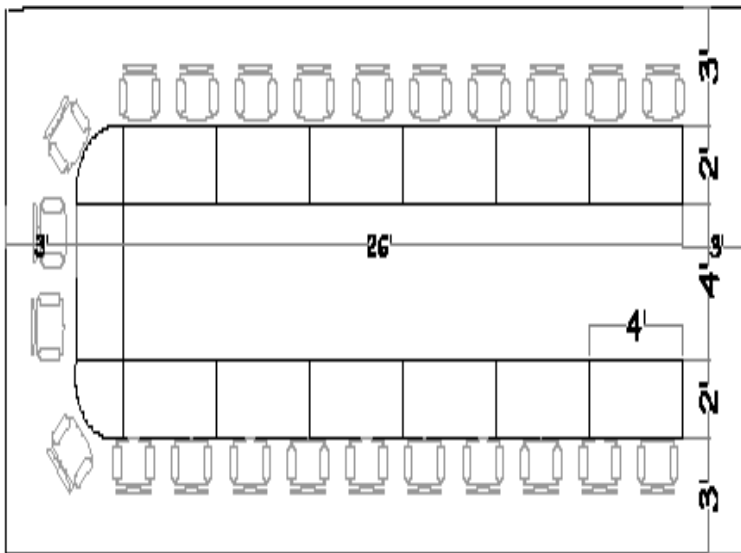
Schedule No	Name of the Equipment	Quantity
F.5	Conference Table	01

Estimated Cost Rs. 70,000=00

Following page gives detailed specifications.

SCHEDULE – F.5

Conference Table



Conference table should be made out of 25mm thick PLB top with duck nose edges. The table is to be arranged in “U” shape as shown in drawing with table overall size 1200X600 mm. it should have appropriate connecting tops with duck nose edges. The under structure should be made with 16mm PLB.

ABSTRACT OF SCHEDULE – F.6

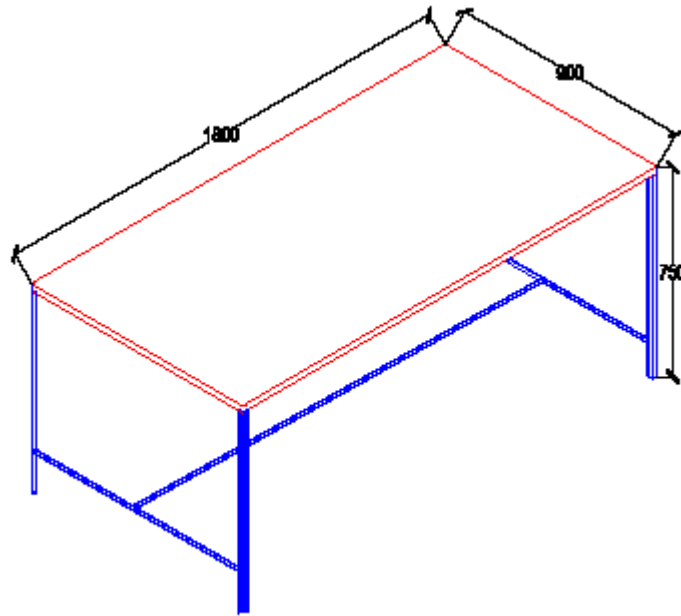
LAB TABLE

Schedule No	Name of the Equipment	Quantity
F.6	Long Tables (Lab tables)	50

Estimated Cost Rs. 2,50,000=00

Following page gives detailed specifications.

SCHEDULE – F.6 Laboratory Table



The structure of the 1800L X 900W X 750H table should have 40mm dia MS Tubular frame with powder coated and welded structure. The legs should have nylon shoes. Top is to be made out of particle board of 25 mm thick with 1 mm lamination. 2mm thick edge banding should be provided to the top on all sides.

ABSTRACT OF SCHEDULE – F.7

STEEL ALMIRAHS

Schedule No	Name of the Equipment	Quantity
F.7	Steel Almirahs	40

Estimated Cost Rs. 5,60,000=00

Following page gives detailed specifications.

Schedule – F.7

Steel Almirahs

Dimensions:

Height	:	1855 mm
Height with Pedestal	:	1980 mm
Width	:	915 mm
Depth	:	480 mm
Rigid Welded structure		

Material :

Steel Almirahs should be made from prime quality, tested CRCA sheets, conforming to IS – 513-1986. Almirahs are to be provided with 4 adjustable shelves respectively.

Components Thickness:

1. Sides / Back/Top/Bottom & pedestal of Almirah should be made of 0.80 mm thick of MSCRCA sheet conforming to IS – 513- 1986.
2. Shelves of Steel Almirah should be made of 0.80 mm thick CRCA steel conforming to IS – 513-1986.
3. The Shelves should have two lipped flanges of 25mm & 15mm. Each shelf is to be supported on four adjustable steel brackets of 3.0 mm thickness. Four rack strips are to be provided to support the shelves covering full height of the Almirah. This rack strips should be made of MS CRCA sheet of appropriate thickness.
4. Door: (two doors) These are to be made of 1.0 mm thick MS CRCA sheet conforming to IS – 513 – 1986. The doors should be further reinforced with metal stiffeners suitably spot welded.
5. Hinges: Double – folded type hinges (three per door) should be made of 2.5 mm MS CRCA. The clearance all around the door and shelves are to be maintained within 1.25mm.
6. Locking: A Superior quality 6 lever lock with duplicate stainless steel keys is to be provided.

Painting: Liquid alkid amino paint duly oven baked for long lasting finish.

ABSTRACT OF SCHEDULE – F.8

Glass door almirah

Schedule No	Name of the Equipment	Quantity
F.8	Glass door almirah	20

Estimated Cost Rs. 3,00,000=00

Following page gives detailed specifications.

Schedule – F.8

Glass door almirah

Dimensions:

Height	:	1855 mm
Height with Pedestal	:	1980 mm
Width	:	915 mm
Depth	:	480 mm
Rigid Welded structure		

Material :

Steel Almirahs are made from prime quality, tested CRCA sheets, conforming to IS – 513-1986. Almirahs are provided with 4 adjustable shelves respectively.

Components Thickness:

1. Sides / Back/Top/Bottom & pedestal of Almirah should be made of 0.80 mm thick of MSCRCA sheet conforming to IS – 513- 1986.
2. Shelves of Steel Almirah should be made of 0.80 mm thick CRCA steel conforming to IS – 513-1986.
3. The Shelves should have two lipped flanges of 25mm & 15mm. Each shelf should be supported on four adjustable steel brackets of 3.0 mm thickness. Four rack strips are to be provided to support the shelves covering full height of the Almirah. rack strips should be made of 1.25 mm MS CRCA sheet.
1. Glass Door : Door frame is to be made of 1.0 mm thick MS CRCA Sheet conforming to IS-513-1986 with clear float glass having 3 mm thickness with necessary inner bedding. The doors are to be further reinforced with metal stiffeners suitably spot welded.
4. Hinges: Double – folded type hinges are made of 2.5 mm MS CRCA. There are three hinges per door leaf in Almirah. The clearance all around the door and shelves are maintained within 1.25mm.
5. Locking: 3 way bolting device for locking the Almirah with A Superior quality 6 lever lock with duplicate stainless steel keys should be provided in almirah.

Painting: Liquid alkid amino paint duly oven baked for long lasting finish.

ABSTRACT OF SCHEDULE – F.9

Executive Table

Schedule No	Name of the Equipment	Quantity
F.9	Executive Table	10

Estimated Cost Rs. 1,40,000=00

Following page gives detailed specifications.

Schedule – F.9

Executive Table

Specifications :-

Top size: 1825 x 905 mm with an overhang of 155 mm on the rear and 133 mm on either side.

Height of the table is 750 mm with center locking.

Storage:

One three drawer unit on right side and one drawer and one cupboard on the left side. 520 (h) X 450(w) x 430 (d)mm .

Particle board of 18mm laminated. Prime quality CR-Steel section powder coated.

ABSTRACT OF SCHEDULE – F.10

Executive Chair

Schedule No	Name of the Equipment	Quantity
F.10	Executive Chair	10

Estimated Cost Rs. 60,000=00

Following page gives detailed specifications.

Schedule-F.10

Executive Chair

Specification :-

1. Revolving Chair
2. Five (5) prolonged nylon base with steel insertions
3. PU moulded cushion seat & back made of 40-50 microns of Density
4. Centre-Tilt/Locking /GL mechanism
5. Hydraulic adjustment 100 mm to provided a cushioning effect every time you sit.
6. Arm rest made of polypropylene
7. Base made of Nylon with steel insertions.
8. Dimensions in mm : 1130 h x 700 d x 560 w
9. PU foam to be mounded on 12 mm thick hot pressed plywood.

ABSTRACT OF SCHEDULE– F.11

Staff Chair

Schedule No	Name of the Equipment	Quantity
F.11	Staff Chair	20

Estimated Cost Rs. 1,00,000=00

Following page gives detailed specifications.

SCHEDULE – F.11

Staff Chair

Specifications:

1. Revolving Chair
2. Five (5) prolonged nylon base with steel insertions
3. PU moulded cushion seat & back made of 40-50 microns of Density.
4. Centre-Tilt/Locking/GL mechanism
5. Hydraulic adjustment 100mm to provided a cushioning effect every time while sitting.
6. Arm rest to be made of polypropelene
7. Base to be made of Nylon with steel insertions
8. Dimensions in mm : 940 h x 700 d x 560 w
9. PU foam to be mounded on 12mm thick hot pressed plywood.

ABSTRACT OF SCHEDULE – F.12

Staff Table

Sl. No	Name of the Equipment	Quantity
F.12	Staff Table	20

Estimated Cost Rs. 1,50,000=00

Following page gives detailed specifications.

SCHEDULE – F.12

Staff table

Table top is in rectangular shape with 1510(w) x 910 (d) dimensions

Frame of the table is made of MS Square tubes of ERW quality of thickness 1.25mm conforming to IS 7138 – 1973.

A drawer unit with 3 drawers is provide on the right hand side of the table and one cupboard is provided on the left side.

When the top drawer is locked the other drawers get automatically locked.

The table top to be made of Prelaminated board with PVC edge banding and the under structure of the table should be powder coated.

Over all Dimensions : 1510(w) x 910 (d) x 755(h) mm.

ABSTRACT OF SCHEDULE – F.13

Laboratory Chairs (Armless)

Schedule No	Name of the Equipment	Quantity
F.13	Laboratory Chairs (Armless)	300

Estimated Cost Rs. 4,20,000=00

Following page gives detailed specifications.

SCHEDULE – F.13

LABORATORY CHAIR (Without Arms)

Dimensions: 970 (h) x 610 (d) x 530 (w) mm

Should be Made of 18 guage MS CRCA powder coated sheet.

Under structure should be MS powder coated tubular frame. The structure should be simple. The chair should have low backrest and it should be cost effective.

ABSTRACT OF SCHEDULE – F.14

Seminar Hall Chairs

Schedule No	Name of the Equipment	Quantity
F.14	Seminar hall chairs	250

Estimated Cost Rs. 7,50,000=00

Following page gives detailed specifications.

SCHEDULE – F.14

Seminar Hall Chairs

1. Should be made of 40-density pre moulded PU foam with fabric upholstery mounted on 12mm thick hot pressed plywood.
2. Suitable armrests are to be provided.
3. The seat and back are to be provided with at least 50 mm thick PU foam.

ABSTRACT OF SCHEDULE – F.15

Modular Computer work stations to house 70 computers

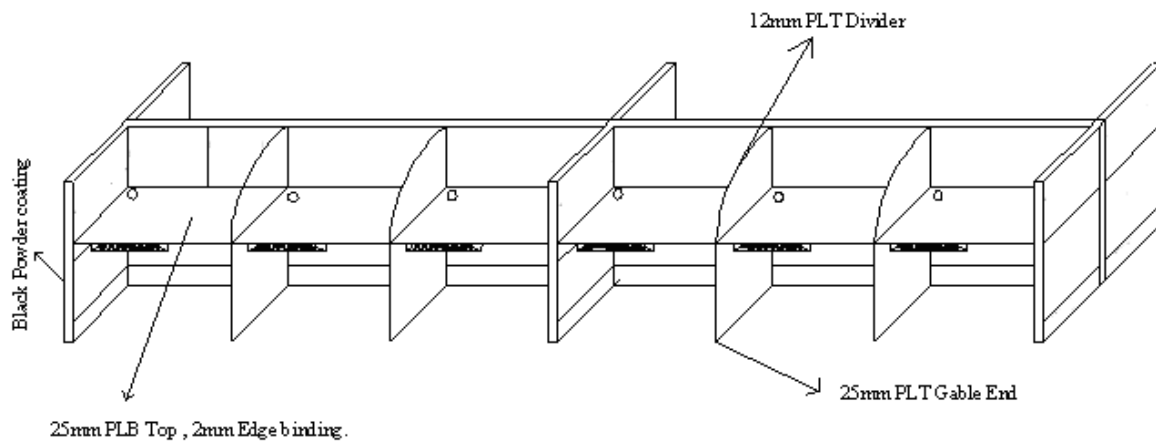
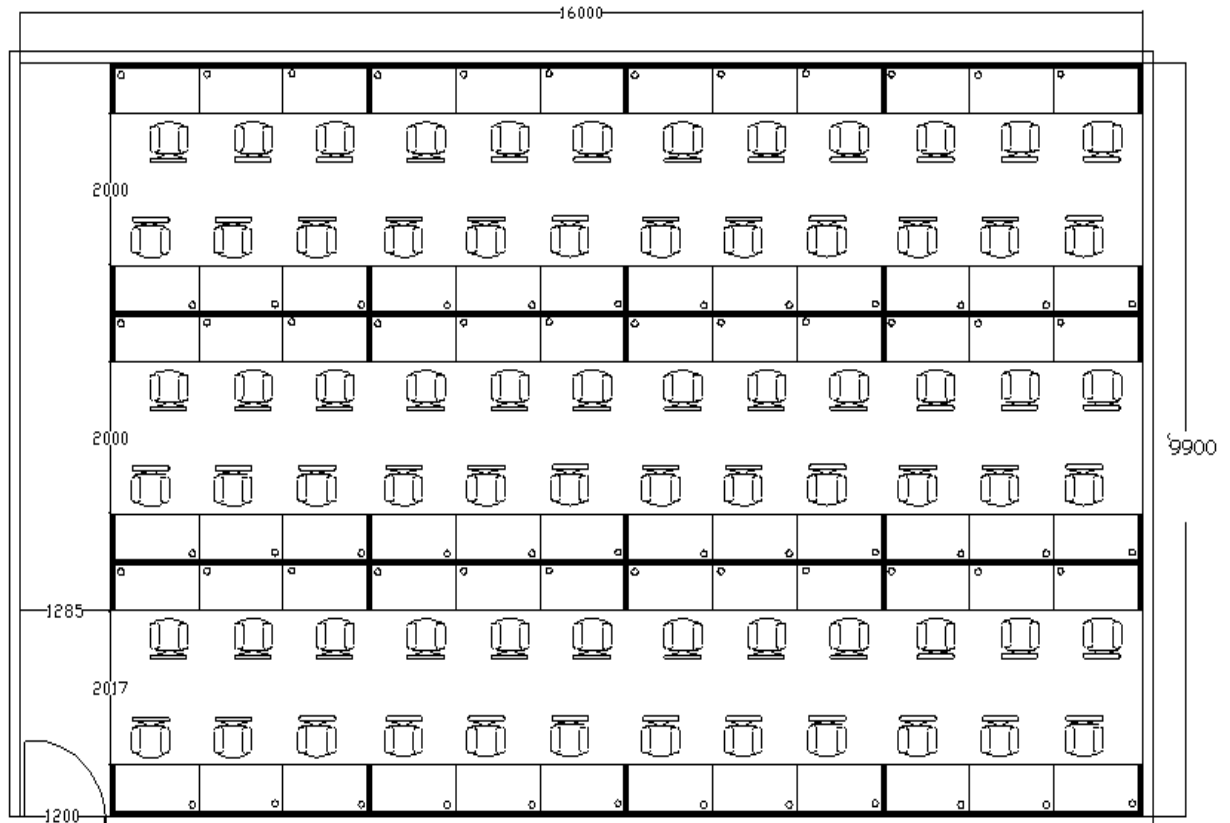
Schedule No	Name of the Equipment	Quantity
F.15	Modular computer work stations to house 70 computers	2 sets

Estimated Cost Rs. 14,00,000=00

Following page gives detailed specifications.

SCHEDULE – F.15

Modular Computer work stations to house 70 computers for Network Technologies Lab



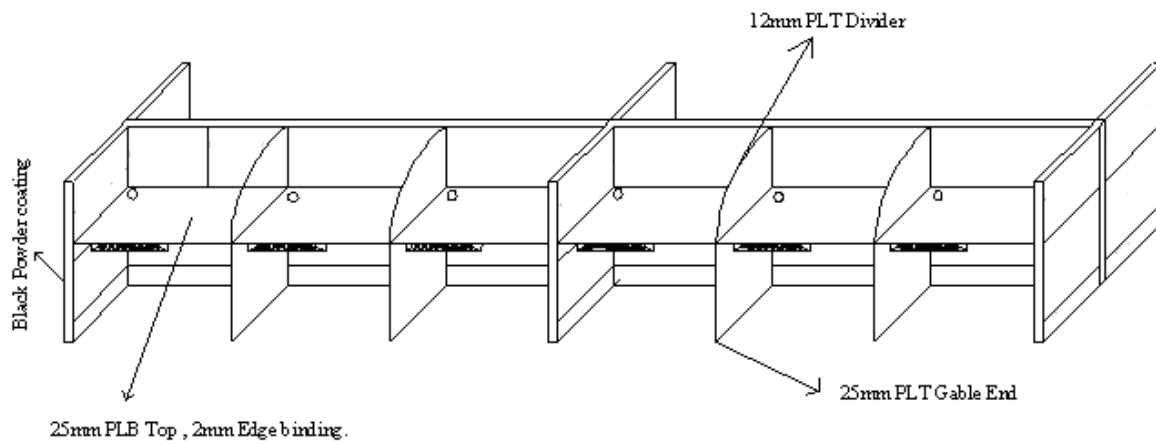
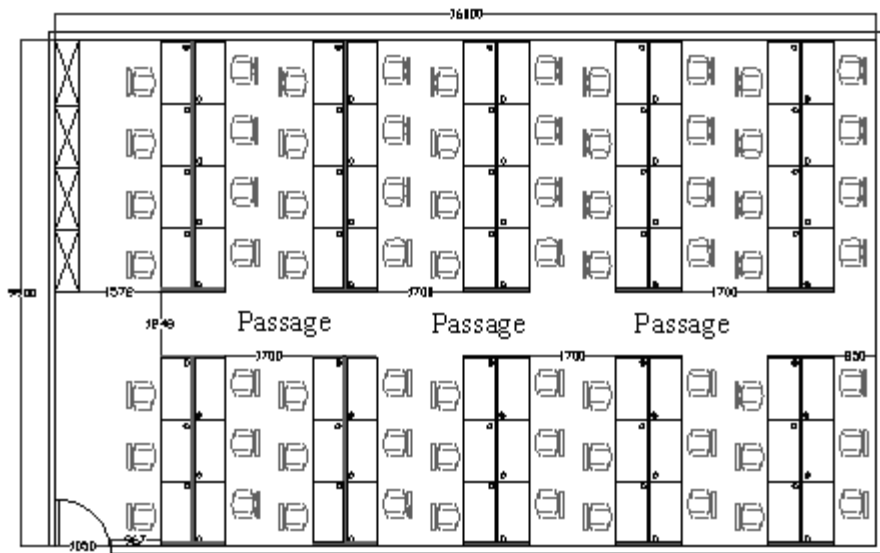
Note: All the dimensions are in mm

Dimensions given are approximate values. The actual dimensions of a room may vary.

Modular furniture is required for 70 Computer systems. (In the figure 72 workstations are shown)

SCHEDULE – F.15

Modular Computer work stations to house 70 computers for IT Workshop Lab



Note: All the dimensions are in mm

Dimensions given are approximate values. The actual dimensions of a room may vary.

Modular furniture is required for 70 Computer systems. (In the figure 72 workstations are shown)

ABSTRACT OF SCHEDULE-E.1

MECHANICAL ENGINEERING DEPARTMENT Machine tools lab

Sl. No	Name of the Equipment	Quantity
1	Simple lathe	3
2	Heavy duty all geared precision lathe	1
3	Turret lathe	1
4	Milling machine	1
5	Universal Tool and Cutter Grinder	1
6	SHAPING MACHINE	1
7	HEAVY DUTY PLANERS	1

Estimated Cost Rs. 15,00,000=00

Following pages give detailed specifications.

SCHEDULE – E.1
Machine tools lab (Specifications)

Schedule No.	NAME OF THE EQUIPMENT / SPECIFICATIONS	Quantity
E1.1	<p>Simple lathe</p> <p>Center height 175mm</p> <p>Admit between centers 1000mm</p> <p>Swing over bed 350mm</p> <p>Swing over cross slide 215mm</p> <p>Swing in gap 540mm</p> <p>Spindle bore 41mm</p> <p>Spindle speed NO./Range 8/54to 1200rpm or 8/67 to 1500rpm</p> <p>Spindle nose D1-4 Camlock type</p> <p>Threads 0.5to6mm pitch 4 to 60TPI</p> <p>Feeds Long 0.089 to 1.33mm per rev</p> <p>Extra feed shaft for feed Standard</p> <p>Switch shaft for Eie.ope Standard</p> <p>Motor 2.25kw/h</p>	3
E1.2	<p>Heavy duty all geared precision lathe</p> <p>Center height 400mm,optional 450&500mm</p> <p>Admit between centers 1000to5000mm</p> <p>Swing over bed 800mm</p> <p>Swing over cross slide 490mm</p> <p>Swing in gap 980mm</p> <p>Spindle bore 104mm</p> <p>Spindle speeds no./range 8/24to700rpm</p> <p>Spindle nose A2-8 type</p> <p>Thread 1to15mm pitch</p> <p>Feeds 30to 2 TPI long 0.077to1.166mm</p> <p>Motor 7.5kw/10hp</p>	1
E1.3	<p>Turret lathe</p> <p>Spindle hollow 50mm</p> <p>Maximum collet capacity 42mm</p> <p>Range of spindle speed (Slow group) 60-95-150-240rpm (Fast group) 380-600-950-1500rpm</p> <p>turret feed rates 05-1-.2mm/rpm</p> <p>Effective stroke of capstan slide 150mm</p> <p>bore size in hexagonal turret 25mm</p> <p>Center of holes above turret slide 54mm</p> <p>maximum distance between spindle nose to turret face 400mm</p> <p>Cross slide transverse travel 140mm</p> <p>Cross slide longitudinal travel 230mm</p> <p>Length bed 1330mm</p> <p>Width of bed 190mm</p> <p>Height of center above bed 170mm</p> <p>Paint of the machine Oasis green</p>	1

E1.4	<p>Milling machine</p> <p>Table overall size 1340*250</p> <p>Table clamping area 975*250</p> <p>No./width of 'T slots 3/14</p> <p>Center distance between 'T' 63</p> <p>Longitudinal movement-power 600</p> <p>Longitudinal movement-manual 700</p> <p>Cross traverse power 230</p> <p>Cross traverse manual 250</p> <p>Vertical movement power 375</p> <p>Vertical movement manual 400</p> <p>MILLING SPINDAL</p> <p>Spindle nose taper ISO-40</p> <p>Quill movement -</p> <p>Swivel of milling head</p> <p>SPEEDS</p> <p>Speed 12</p> <p>Speed range standard 35-1500</p> <p>Speed range optional 45-2000</p> <p>FEEDS</p> <p>Feed 9</p> <p>Feed range longitudinal& cross feed range 20-800</p> <p>Vertical 10-400</p> <p>RAPID TRAVERSE</p> <p>Longitudinal& cross 1000</p> <p>Vertical 500</p> <p>DISTANCE</p> <p>Spindle center to table surface(min/max) -</p> <p>Spindle center to lower face of over arm -</p> <p>Spindle face to table surface (min) 75</p> <p>POWER</p> <p>Spindle motor 2.25/3</p> <p>Feed motor 1.5/2</p>	1
E1.5	<p>Universal Tool and Cutter Grinder</p> <p>SPECIFICATION ESSE-2</p> <p>Swing over table 305mm</p> <p>Maximum distance between centers 560mm</p> <p>Table longitudinal traverse 510mm</p> <p>Table cross traverse 205mm</p> <p>Table dimensions 805*156mm</p> <p>Tee slot width 12mm</p> <p>Center wheel above table 330mm</p> <p>Table swivel 90°</p> <p>Head swivel 360°</p> <p>Grinding spindle speed 2800rpm</p> <p>H.P of motor 1HP</p> <p>Floor occupied 1120*920mm</p> <p>Height of the machine 1680mm</p>	1

E1.6	<p>SHAPING MACHINE</p> <p>Size 18" mm</p> <p>CAPACITY</p> <p>Length of ram stroke 457</p> <p>Length of ram 990</p> <p>Length & width of ram bearing 762*257*</p> <p>Max. & min distance from table to ram 407*89</p> <p>TABLE</p> <p>Working surface of table 407*292</p> <p>Max. table travel-horizontal 508</p> <p>Max. table travel-vertical 330</p> <p>Angular movement of table on either side 60°R</p> <p>TOOL HEAD</p> <p>Max. size of tool shank accommodated 45*19</p> <p>Max. vertical travel of tool slide 150</p> <p>Max. swivel of tool head 60°R</p> <p>BASE</p> <p>Length & width of base 1450*482</p> <p>SPEED & FEEDS</p> <p>Dia of clutch pulley 311</p> <p>Range of ram speeds 4,17,25,50,75</p> <p>Dia. Of motor pulley 89</p> <p>Range of table feed per stroke of ram 0.229</p> <p>Range of tool head feed Hand feed</p> <p>DRIVE AND ELECTRICAL EQUIPMENT</p> <p>3 phase electrical main drive motor speed rpm 2 H.P, 950r.pm</p> <p>V.belt section B-55</p> <p>Main switch starter 3.5 AMP</p>	1
E1.7	<p>HEAVY DUTY PLANERS</p> <p>Width between columns 6 ft</p> <p>CAPACITY</p> <p>Length of the stroke 5m</p> <p>Width between columns 1828mm</p> <p>Height under cross rail 1828mm</p> <p>TABLE</p> <p>Working surface length As per length of stroke</p> <p>No of T-slots 6</p> <p>Width of T-slots 19</p> <p>Distance between T-slots 190</p> <p>RAIL HEAD</p> <p>No. of tool holders. 2</p> <p>Horizontal traverse of tool holder. 1500</p> <p>Vertical traverse of tool holder. 304</p> <p>Max. Swivel of tool head slide to either side. +/-50°</p> <p>Max. Size of tool shank. 44*44</p> <p>Swiveling of clapper box. +/-25°</p> <p>CROSS RAIL</p> <p>Vertical traverse of cross rail MM(elevating) 1800</p> <p>Elevating traverse of head MM 1660</p>	1

ABSTRACT OF SCHEDULE – E2

COMPUTER SCIENCE ENGINEERING DEPARTMENT

VIDEO CONFERENCING SYSTEM

Sl. No	Name of the Equipment	Quantity
1	Audio System (Amplifier, Speakers etc)	01
2	Plasma TV (42 inches)	01
3	Projector	01
4	DVD Recorder	01
5	Motorized Screen	01
6	Voice Tracking Camera with vega X5(IP only)	01

Estimated Cost Rs. 5,00,000=00

Following pages give detailed specifications.

ABSTRACT OF SCHEDULE – E2

Note: Schedule – E2 will be treated as a single unit and the price evaluation will be made for the total price of all sub schedules.

E2.1 Audio System (includes 1Amplifier-Mixer, 4speakers, 2Lapel Mics, 2Handheld Mics) Ahuja OR Equivalent

E2.2 Plasma 42” Samsung OR LG OR Panasonic OR Equivalent

E2.3 Projector Specifications

Brightness	-	High Brightness	3500 Ansi lumens
		Low Brightness	2700 Ansi lumens
Contrast	-	500:1	
Sound Output	-	5w monaural	
Direct Power on/off	-	Available	
Screen Size	-	30 to 300 inch (0.8 to 14.7m)	
Colour Reproduction	-	Full Colour(16.7 million colours)	
Display Performance(Native)	-	1024X768	
Display Performance(Resize)	-	1600X1200,1280X1024,800X600,640X480	
Control I/O	-	USB I/O terminal & Serial I/O terminal	
Network I/O	-	USB I/O terminal & Wired LAN terminal	
power Supply	-	100-240 VAC+/-10%,50/60Hz	

E2.4 DVD Recorder with 250 GB HDD Panasonic OR Equivalent.

E2.5 Motorized Screen (5X8) with remote.

E2.6 VIDEO CONFERENCING SYSTEM (IP only) with voice tracking camera

Schedule No.	NAME OF THE EQUIPMENT / SPECIFICATIONS	Quantity
E2.6	<p>Video conferencing standards H.230, H.323, SIP, PPoE, T.120, X.21/V.35/RS366/RS449/RS530</p> <p>H. 320(ISDN) Should support ISDN BRI Upto 2Mbps on PRI Should support 15 frames per second @ 56kbps up to 128kbps Should support 30 frames per second @ 168kbps up to 2Mbps</p> <p>H. 323 (IP) Should support 2 Mbps on IP</p> <p>Down speeding System should implement full downspeeding on IP and ISDN network Should adapt to last available bandwidth and remain in call irrespective of line failure including first line</p> <p>Network features IP precedence /DiffServ/IP type of service/ Auto gatekeeper discovery/clever packets management Web management: all configuration, call, diagnostics and management via Microsoft internet explorer, netscape navigator Call process monitoring Error tracking Protocol supported: Telnet, HTTP, SNMP, DNS, DHCP, RTP/RTCP, TCP/UDP, ARP</p> <p>Video Standards H.261, H.264, H.263 ++, H.239, H.241 Should support PAL, NTSC standards Should support PIP and 2 live simultaneous video sources Dual monitor emulation 16:9 support data collaboration (T.120) LDAP support (H.350)</p> <p>Resolution FCIF, 4CIF, QCIF TV-quality wide screen Video input Main camera integrated Y/C PTZ camera VCR composite Doc. Cam. 1 S-video (Mini-DIN) Doc. Cam. 2 S-video (Mini-DIN) Doc. Cam. 3 Composite (RCA) XGA In</p>	1 set

<p>Video Output Main monitor: S-video / composite Second Monitor: S-video VCR: Composite Video (RCA) XGA output for connecting projector / PC Monitor</p>	
<p>Audio Standards G.711, G.722, G.722.1, G. 728, MPEG4 AAC-LD</p>	
<p>Audio Input Table Top mike input VCR Line 2 RCA Should have support for additional microphone RCA audio input (Line Level)</p>	
<p>Microphone The microphone for the best sound quality and 360 degrees omni directional coverage (Digital 3 cardioids microphone)</p>	
<p>Audio output 2 RCA line level for main Audio, VCR</p>	
<p>Features Full duplex dynamic echo cancellation Automatic gain control Automatic noise suppression Adaptive post filtering Embedded presentation system Should have live video streaming (unicast, multicast)</p>	
<p>PTZ Camera Voice – tracking and track-to-preset Wide-angle camera with min. df. 260 degree Field of view Minimum 10.5 x zoom Auto focus Automatic white balance 122 preset positions for near and far end camera Support H.281 for (H.320/H.323) for camera control via remote</p>	
<p>Network interfaces 2-port 10/100 Mbps port full duplex should support PRI and BRI interfaces Leased networks – X.21/V.35/RS366/RS449 or G.703 Slot for WiFi IEEE 802.11b/g for wireless connectivity</p>	
<p>Security Built-in encryption of Video call with AES (standards- H.233, H.234, H.235)</p>	
<p>Multi point calling capability End point should be upgradeable to multipoint calling of minimum of four (1+4) remote sites with commercial quality pictures Multipoint upgrade to sites Cascading of sites Chair control – H.243 Compatible with analog and mobile networks Dual video from any site</p>	

ABSTRACT OF SCHEDULE – E3

COMPUTER SCIENCE ENGINEERING DEPARTMENT

Desktop Computer Systems (Assembled)

Sl. No	Name of the Equipment	Quantity
1	Desktop Computer Systems (Assembled)	25

Estimated Cost Rs. 5,00,000=00

Following page gives detailed specifications.

Schedule – E3
Computer Science and Engineering Department
 Desktop Computer Systems (Assembled)

Schedule No.	NAME OF THE EQUIPMENT / SPECIFICATIONS	Quantity
E3.1	<p>Desktop Computer Systems (Assembled)</p> Processor Intel Core 2 Duo 2.4GHz or higher L2 Cache Minimum of 2 MB Chip set Intel Q35 or higher – OEM Mother board Slots 6 USB Ports (2 at front side) , 3 PCI slots, headphone, Audio, MIC , RJ-45 ports Keyboard Standard Keyboard Mouse Optical Mouse Hard disk 160 GB SATA HDD with 7200 rpm RAM 1 GB DDR2 SD RAM 667 MHz, expandable up to 8 GB Monitor 17’’ TFT LCD Monitor CD Writer Yes Network Interface 10/100/1000 Mbps Ethernet Bays At least 2 internal and 2 external Power supply Minimum of 300 W with surge protection Form Factor Tower Graphics Intel Graphics media accelerator Drivers Drivers for windows and Linux operating systems should be freely available on OEM website. Warranty 1 year Comprehensive On site Warranty	

ABSTRACT OF SCHEDULE – E4

Bio-Technology Department

HPLC SYSTEM

Sl. No	Name of the Equipment	Quantity
1	High Performance Liquid Chromatography	01

Estimated Cost Rs. 15,00,000=00

Following pages give detailed specifications.

SCHEDULE – E4

Bio-Technology Department (HPLC SYSTEM)

High Performance Liquid Chromatography(HPLC)

- 1. Pump: Low Pressure Quaternary Gradient Pump** **Quantity 1.No**
 - Flow rate range : **200-10,000 µL/min.**
 - Pressure Range : **7000 to 8000 psi**
 - Pump for LC/MS/MS operations and micro bore chromatography.
 - Flow rate accuracy : **(±0.1% at 1mL/min.)**
 - Flow rate precision : **(<0.1% RSD)**
 - Gradient delay volume : **(700 µL)**
 - Least pressure pulsation : **(< 1%)**
 - Built-in Vacuum degas system.
 - Continuous active rear seal wash system
- 2. Solvent rack with 4 numbers of bottles**
- 3. Manual injection unit mounting Kit with sample loop.**
- 4. UV-VIS Detector**
 - Wavelength range : 200nm to 900nm, programmable
 - Wavelength accuracy : ±0.75nm
 - Spectral bandwidth : 2nm to 400nm, selectable
 - Noise/AU : <±2.5
 - Drift : <0.1nm AU/h
 - Linearity : Up to 2.5 AU
- 5. Flow cell 10mm path length**
- 6. Column**
 - Analytical column with guard column.
- 7. Chromatography software:**
 - Chromatography data system for control, acquisition, processing and reporting software.
 - Compatible for Windows
 - Built-in system suitability as per USP, EP, JP etc...
 - Automated validation for IQ/OQ/PQ for both Hardware & software.
 - Dynamic data displays, relational database, powerful
 - Data mining tools
 - Built-in system wellness.
 - Complete system control with user-friendly help and system diagnostic.
 - Flexible reporting as users desires for complete chromatography information reporting.
- 8. The HPLC system should have facility to add on Auto sampler, column oven, Detectors like ELSD, PDA, and Fluorescence Detector etc.**
- 9. PC & Printer**
 - Suitable branded latest Model PC with 17" LCD monitor along with windows operating system services pack-II and laser Printer should be supplied with the HPLC system.
- 10. Essential Accessories**

All the essential standard accessories required for installation and smooth, trouble-free operation of the HPLC system
- 11. Training**

Comprehensive training of the operation of the instrument and software

ABSTRACT OF SCHEDULE – E5

JNTU CEP Hostels

R.O. Systems for Drinking water

Sl. No	Name of the Equipment	Quantity
1	Reverse Osmosis Water Purifier Systems with a capacity of 300 Lr/hr	04

Estimated Cost Rs. 4,80,000=00

Following pages give detailed specifications.

SCHEDULE – E5
JNTU CEP Hostels
R.O. Systems for Drinking water

Type of the water purifier system	: R.O System
Purified water capacity	: 250-300 LPH
Purification stages required for the system	: 1. Particulate filter 2. Pre carbon Block filter 3. Anti scalant Filter 4. Sediment filter 5. R.O Membrane Filter 6. Post carbon Block Filter 7. Nano Silver Leaching Filter
R.O. Membrane Rating	: 75 GPD or equivalent
Type of Product construction	: Concealed
Type to Installation	: Indoor. Preferred location is dining hall of the college mess
Flushing	: Should have the capability to auto flush at every start and every stop and at regular frequencies
Pipe line from sand filter to higher pump and high pressure pump to R.O. System	: CPVC or equivalent 100 m approximate.
Body of the system	: Front SS 304. Rest GI Powder coated.
Optionals	: Storage tank with coolers (Please quote prices for storage tank and cooler separately will be evaluated separately)

cost of annual maintenance for two years shall be quoted along with the price.

ABSTRACT OF SCHEDULE – E6

ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT

Dual Trace CROs. DC-30 Mhz

Sl. No	Name of the Equipment	Quantity
1	Dual trace CROs. DC-30 Mhz dual mode add and subtract	10

Estimated Cost Rs. 3,00,000=00

Following page gives detailed specifications.

Schedule – E6
Electrical & Electronics Engineering Department
30MHz DUAL TRACE OSCILLOSCOPE

Schedule No.	NAME OF THE EQUIPMENT / SPECIFICATIONS	Quantity
E6.1	<p style="text-align: center;">VERTICAL DEFLECTION</p> <p>Deflection Coefficient: 1mV/div to 20V/div. 5mV/div to (CH1 & CH2) 20V/div in 12 calibrated steps in 1-2-5 sequence. x5 Magnification increases the sensitivity to 1mV/div & 2mV/div. (LED indicated).</p> <p>Accuracy: ±3%.</p> <p>Bandwidth: DC - 30MHz (-3dB), dc coupled. 10Hz -30MHz (-3dB), ac coupled. 20MHz (-3dB) in x5 MAG.</p> <p>Rise-Time: 11.6 ns or less, 17.5ns in x5 MAG.</p> <p>Display Modes: CH1, CH2, CH1 & CH2 Alternate or Chop mode, Algebraic addition CH1 + CH2, Algebraic subtraction CH1 -CH2, CH2 Invert & X-Y.</p> <p>Input Impedance: 1 M ohms & 25 pF (approx)</p> <p>Maximum Input : 400 Volts (dc + peak ac)</p> <p>Internal Trigger: CH1 or CH2 signal.</p> <p>Signal</p> <p>TIME BASE</p> <p>Sweep Speed : 18 calibrated steps.0.5 µs/div to 0.2 s/div in 1, 2 & 5sequence.</p> <p>Sweep Magnifier: x5 Magnification extends the sweep speed to 100 ns/div. x5 Magnification indication with LED.</p> <p>Accuracy: ±3%.</p> <p>Variable: Uncalibrated continuously variable control between steps, extends fastest sweep speed to 40 ns/div (approx). (Uncal LED indication).</p> <p>Hold-off Time : 4:1 variable control.</p> <p>TRIGGER SYSTEM</p> <p>Triggering Mode : Automatic or Normal with Level Control.</p> <p>Source: CH1 / CH2 / MAINS / EXT.</p> <p>Slope: Positive or Negative.</p> <p>Coupling: ac / dc / HF reject or TV Frame /TV Line.</p> <p>HORIZONTAL DEFLECTION</p> <p>Deflection Coefficient : Same as CH2.</p> <p>Bandwidth : DC - 1MHz (-3dB).</p> <p>Input Impedance : 1M ohms and 25pF (approx).</p> <p>COMPONENT TESTER / COMPARATOR</p> <p>Dual Component Tester allows comparison of V-I characteristics of a Device - Under - Test (D.U.T.) and a sample Device.</p> <p>Test Voltage : 8.6V r.m.s.</p> <p>Test Current : 28mA.</p> <p>Test Frequency : 50Hz or 60Hz.</p> <p>GENERAL INFORMATION</p> <p>Cathode Ray Tube : 140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor. Accelerating potential: 2 kV.</p> <p>Trace Rotation: Front Panel control, allows ±50 of trace adjustment.</p> <p>Z-Modulation: TTL level.</p> <p>Calibrator: Provides 0.2V ±2%, 1KHz square wave Output for probe compensation.</p> <p>Standard Accessories: Instruction Manual, 2 Input BNC Leads.</p> <p>Optional Accessories: High impedance switch probe with x1 or x10 attenuation (Model 306), Trolley.</p> <p>Specifications Operational: 0°C to 50°C RH 85%.</p>	10

ABSTRACT OF SCHEDULE – E7

BIO-TECHNOLOGY DEPARTMENT

Bioreactor

Sl. No	Name of the Equipment	Quantity
1	Bio- Reactor	01

Estimated Cost Rs.

Following page gives detailed specifications.

Schedule – E7
BIO-TECHNOLOGY DEPARTMENT
Bioreactor

S. No	Details of the Equipment			
1.	PC Compatible Micro controller based full function Electronic Unit: PC should not be included in the Quotation			
2	Control algorithm	PID/FUZZY Logic/Reactive Logic		
3	Culture Vessel	Total Volume	2 liters	
		Working Volume	2/3 rd of total volume	
		Glass vessel	Stir tank round- bottom (Borosil/Corning) glass (6mm wall thickness), Autoclave sterilizable, easy to clean and maintain	
		Jacket & Support frame	All SS-316 support frame & top plate with ports for pH probe, DO probe, foam probe, temp probe etc...	
		Head Plate & Ports	All SS-316 support frame & top plate with ports for pH probe, DO probe, foam probe, temp probe etc...	
4	Agitation	Stirrer motor	PM DC/AC IM	
		Range	200 to 1,299 rpm	
		Impellers	Six segment Rush ton style impellers for fermentation	
5	Aeration	Sparger	Circular construction, with close pin prick holes for ultra fine bubbling	
6	Gas Out	Condenser	All SS – 316 Shell & tube condenser for exit gas	
7	Probes	PH	PH probe (One number)	
		DO	DO probe (One number)	
		Foam	Foam probe (One number)	
		Temperature	Dual temperature probe (One number)	
			Common probe (Two numbers)	
8	Pumps	Four nos peristaltic pumps, variable speed pumps 10-100 r.p.m in steps of 10. for Acid,. Base Anti-Foam, feed		
9	Interfaces	Suitable interface for PC interface mode and for recording outputs of pH, DO, Foam etc...		
10	PC software	Suitable GUI based software providing full control of the bioreactor		
11	Temperature system	Hot, Cold & Tap water Circulation system with twin chamber independent circulation pumps for HOT & COLD water circuits, cooling capacity ¼ ton, heating capacity 1 kw. Temperature range 5°C to 80°C		
12	Compressor	Oil free air compressor		
13	Standard Accessories	Suitable and required nos. of addition bottles, silicone tubes, filters, seals, 'O' Rings and other standard accessories should be included with the main equipment		
14	Warranty	1 year		

Note: The vendor should be ready to accept modification in specifications if any.

ABSTRACT OF SCHEDULE – B1

Department of Library

Sl. No	Books
1	Text Books and reference books

Estimated Cost Rs. 5,00,000=00

Following page gives detailed specifications.

Schedule – B1
Department of Library

COMPUTER SCIENCE ENGINEERING BRANCH				
S.NO	TITLE OF THE BOOK	AUTHOR	PUBLISHER	NO.OF COPIES
1	C PROGRAMMING	DENNIES M.RITCHE	PEARSON	5
2	C & DATA STRUCTURES	P.S DESHPANDE, O.G KAKDE	DREAMTECH	6
3	C & DATA STRUCTURES	P.PADMANABAM	B.S PUBLICATION	8
4	C PROGRAMING WITH PROBLEM SOLVING	J.A.JONES, K.HARROW	DREAMTECH	10
5	PROGRAMING IN C, 3 rd EDITION	S.G.KOCHAN	PEARSON EDU	6
6	PROGRAMING IN C	P.DEY& M.GHOSH	OXFORD UNIV.PRESS	8
7	LATEX COMPANION	LESLIE LAMPORT	PHI/PEARSON	5
8	DATA STRUCTERS AND ALGORITHMS IN C++, 3 rd EDITION	ADAM DROZDEK	THOMSON	6
9	PROBLEM SOLVING WITH C++, THE OOP, 4 th EDITION	W.SAVITCH	PEARSON EDU	10
10	C++ PRIMER, 3 rd EDITION	S.B.LIPPMAN	PEARSON EDU	6
11	UNIX AND SHELL PROGRAMMING	B.A.FOROUZAN, R.F.GILBERG	THOMSON	10
12	UNIX FOR PROGRAMMERS AND USERS, 3 rd EDITION	GRAHAM GLASS, KING ABLES	PEARSON EDU	10
13	THE COMPLETE REFERENCE UNIX, 2 nd EDITION	ROSEN, HOST, KLEE, FARBER, ROSINSKI	TMH	8
14	DATA STRUCTERS USING C++	D.S.MALIK	THOMSON	6
15	INTRODUCTION TO UNIX & SHELL PROGRAMMING	M.G.VENKATESH MURTHI	PEARSON EDU	10
16	BEGINNING SHELL SCRIPTING	E.FOSTER	JOHNSON&OTHER , WILEY INDIA	8
17	PROGRAMMING LANGUAGES	WATT	WIELY DREAMTECH	6
18	LISP	PATRIC HENRY, PAUL HORN	PEARSON EDU	5
19	COMPUTER ARCHITECTURE A QUANTITATIVE APPROACH, 4 th EDITION	JOHN L.HENNESSY, DAVID A.PATTERSON	ELSEVIER	6
20	COMPUTER ARCHITECTURE: FUNDAMENTALS AND PRINCIPLES OF COMPUTER DESIGN	JOSEPH D.DUMAS II	B.S PUBLICATION	6
21	COMPUTER ORGANIZATION	ANJANEYULU	HIMALAYA PUB HOUSE	8
22	DATA BASE SYSTEMS DESIGN, IMPLEMENTATION AND MANAGEMENT, 7 th EDITION	PETER ROB & CARLOS CORONEL		6
23	FUNDAMENTALS OF DATABASE SYSTEMS	ELMASRI NAVRATE	PEARSON EDU	8
24	INTRODUCTION TO DATABASE SYSTEMS	C.J. DATE	PEARSON EDU	8
25	DATA BASE MANAGEMENT SYSTEM	MATHEW LEON, LEON VIKAS		8
26	DATABASE SYSTEMS	CONNOLEY	PEARSON EDU	6
27	ORACLE PL/SQL BY EXAMPLE,	BENJAMIN ROSENZWEIG,	PEARSON EDU	10

	3 rd EDITION	ELENA SILVESTROVA		
28	ORACLE DATABASE LOG PL/SQL PROGRAMMING	SCOTT URMAN	TATA MC-GRAWHILL	8
29	SQL&PL/SQL FOR ORACLE 10g, BLACK BOOK	Dr.P.S.DESHPANDE		10
30	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	DrD.S.CHANDRASEKHAR AIAHA	PRISM BOOKS PVT LTD	6
31	DISCRETE MATHEMATICS	LOVASZ, SPRINGER		8
32	DISCRETE MATHEMATICS WITH APPLICATIONS	THOMAS KOSHY	ELSEVIER	8
33	DISCRETE MATHEMATICAL STRUCTURES	BERNAND KOLMAN, ROBERT C.BUSBY, SHARN CUTTER ROSS	PEARSON EDU/PHI	8
34	DISCRETE MATHEMATICAL STRUCTURES THEORY AND APPLICATION	MALIK & SEN		6
35	DISCRETE MATHEMATICS FOR COMPUTER SCIENCE	GARRY HAGGARD & OTHERS	THOMSON	6
36	DISCRETE MATHEMATICS FOR COMPUTER SCIENTISTS & MATHEMATICIANS	J.L.MOTT, A.KANDEL	T.P.BAKER PRENTICE HALL	6
37	LOGIC AND DISCRETE MATHEMATICS	GRASS MAN & TREMBLEY	PEARSON EDU	5
38	UNDERSTANDING OOP WITH JAVA, UPDATED EDITION	T.BUDD	PEARSON EDU	5
39	AN INTRODUCTION TO PROGRAMMING AND OO DESIGN USING JAVA	J.NINO AND F.A.HOSCH	JOHN WILEY & SONS	8
40	INTRODUCTION TO JAVA PROGRAMMING, 6 th EDITION	Y.DANIEL LIANG	PEARSON EDU	6
41	AN INTRODUCTION TO JAVA PROGRAMMING AND OBJECT ORIENTED APPLICATION DEVELOPMENT	R.A.JOHNSON	THOMSON	8
42	OBJECT ORIENTED PROGRAMMING THROUGH JAVA	P.RADHA KRISHNAN	UNIVERSITY PRESS	10
43	BIG JAVA, 2 nd EDITION, WILEY STUDENT EDITION	CAY HORSTMANN	WILEY INDIA PVT LTD	10
44	INTRODUCTION TO AUTOMATA THEORY LANGUAGES AND COMPUTATION	HOPCROFT H.E.AND ULLMAN	J.D PEARSON EDU	8
45	INTRODUCTION TO COMPUTER THEORY	DANIEAL I.A.COHEN	JHON WILEY	8
46	INTRODUCTION TO THEORY OF COMPUTATION, 2 nd EDITION	SIPSER	THOMSON	10
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