



No./NITRR/R-1/Furniture/2009/.....1683

Raipur, Dated: 26.8.09

To,

M/s. AK Advertisers
Near Tatyapara Chowk
Raipur (C.G.).

Sub: Publishing of advertisement – regarding.

Dear Sir,

You are kindly requested to publish the advertisement given below by 28 August 2009 in your **The Times of India (Bombay edition)** and **Hindustan Times (Delhi edition)** in minimum size. Bill according to DAVP rates may kindly be submitted to the office of undersigned in three copies for the payment.

You are also requested to enclose DAVP rate list and copy of the advertisement published along with the bill.



No./NITRR/R-1/Furniture/2009/.....

Raipur, Dated:.....

TENDER NOTICE

Sealed Tenders are invited for supply of furniture.

Last Date of Tender Submission: 29/09/2009 up to 14.00 hrs.

Tender documents and detailed specifications along with terms and conditions of supply can be obtained from the Accounts Office/ downloaded from website on payment of DD of Rs. 2000/- (Rs. Two Thousand Only) in favour of "Director, NIT, Raipur" payable at Raipur between 10.30 to 17.00 hrs. on all working days. Sealed tender should be submitted superscribed as Tender enquiry for furniture in an outer cover containing two separate sealed covers superscribed as "Technical Bid" and "Financial Bid" with Name/Address of the firm and tender notice number. If the web copy of tender form is used then the cost of Tender Rs. 2000/- to be enclosed with tender documents.

The Tender form is non-transferable.

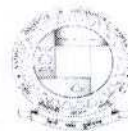
For details visit our website www.nitr.ac.in.

Registrar
NIT Raipur


Registrar
NIT Raipur

Copy to:

1. Accounts Officer NIT Raipur for information.
2. Central Store, NIT Raipur for information.
3. Steno to Director, NIT Raipur for information.



Sub: Invitation of Bid for Furniture Requirement at NIT Raipur (2009-10)

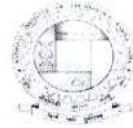
National Institute of Technology Raipur has planned to procure furnitures for various academic, administrative and other office activities. Director, NIT Raipur invites technical and commercial bids (sealed separately and then put together)

ELIGIBILITY CRITERIA (Terms & Conditions)

1. Only the technically proficient companies who have a turnover exceeding Rs. 5 crores annually and who have executed orders of similar nature in the past can submit the tender. The Bidder should have ISI/ISO 9001-2000 certification.
2. The tender will be opened, evaluated and awarded item wise.
3. Bidder can download bidding documents from the website www.nitr.ac.in
4. The mode of submission of tender should be in two parts: Part (I): In one sealed envelope superscribed with "Technical Bid" in another part (II) sealed envelope superscribed with "**commercial** Bid". Both the above sealed envelopes should be put in another sealed envelope superscribed with "Technical and Commercial bid". Please note that the tender document is not transferable. Please quote your rate in your **commercial** bid offer only.
5. The tolerance limit in the dimensions mentioned in technical specifications of the items is $\pm 1\%$. Technical Bids will be first opened and after verification of technical specification criteria, the price bid of those who are qualified in technical bid, will be opened. The lowest price bidder in commercial bid will be awarded the tender item wise, irrespective of the dimensions supplied.
6. As a proof of experience/competence, the tenderer should submit along with their tender a statement showing credentials from the clients with whom they have worked for successful completion of their work in format-I. They should also submit a list of manufacturing equipments available with them in the given format-II.
7. The manufacturer should have in-house design & development capability to take care of any modifications required in their products to suit the needs of the Institute.

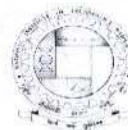
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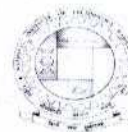
8. A Committee from the institute may visit the Manufacturing set up to verify the Manufacturing capabilities, testing methods, process of manufacturing etc, to ascertain the Technical qualifications.
9. The manufacturer should be having in-house capability to provide components to maintain the furniture.
10. The manufacturer should have capability to provide after sales service and should be in a position to offer annual maintenance contract. Branch office/service set up is to be at Raipur, C.G. .
11. The offer of bidder who do not fulfill the requisite qualification and who do not furnish documentary evidence will be summarily rejected. Any misleading information will be rescinded and will lead to disqualification of the tenderer.
12. The supplier should be willing to develop/upgrade the manufacturing capabilities as suggested by the committee after inspection to judge the level of competency for undertaking the project.
13. A proof of certifications, agreements etc. from central-state government organization should be enclosed.
14. The Bidder should submit the proof of Excise duty and Sales tax certifications/registrations.
15. The completely filled tender form must be submitted in all respect at NIT Raipur. **on or before 2.00 pm, 29th September 2009. Technical bid shall be opened on same day at 4.00 pm.**
16. Proprietary items & Rate Contract:
 - (a) In case the items quoted are proprietary in nature and manufacturer is sole manufacturer than a proprietary/sole certificate has to be attached.
 - (b) If the items quoted are covered by any of valid DGS & D rate contract than a copy of the rate contract has to be attached.
17. **The commercial bids should contain the details mention in format IV.**
18. The Tender-committee will not be responsible for non-receipt/late receipt or loss of the tender documents/offer due to postal transit delay.

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19. Time is the essence of the contract and hence all the material should be delivered at NIT-Raipur within 6 weeks from the date of release of the purchase order.
20. The bidders while submitting the tender should invariably submit an Income Tax clearance certificate.
21. Notwithstanding anything above, The Committee reserves the right to choose/accept/reject any or all applications in full.
22. The Tender Committee reserves the rights to assess the capacity/capability of the applicants in the overall interest of the Institute.
23. Any bid received after the expiry of the date and time prescribed for receiving the completed bids shall not be considered.
24. Any furniture/equipment/ trainers must be attended free of cost within 48 hours or within the time as decided at the time of complaint during warranty period.
25. No advance payment will be done.
26. All disputes arising out of this tender and subsequent contract, if any, are subject to the jurisdiction in the district of Raipur, C.G.
27. The tender forms with specifications can be downloaded from website www.nitr.ac.in. Only hard copy of tender documents to be submitted as per norms with Rs. 2000 /- in form of DD in favour of Director NIT Raipur payable at Raipur.
28. Tender must be deposited in the Tender Box in Registrar's office, NIT Raipur, GE Road, Raipur C.G. – 492010.
29. The Institute reserves the right to increase/decrease the order quantity to the extent of 25% of the original ordered quantity at its sole discretion, at the original ordered rate and terms.
30. Penalty: Extension of guarantee period may be granted at the discretion of undersigned. The penalty at the rate of 1% per month of full cost of equipment/furniture is liable to be charged on extension of delivery period.



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31. Security Deposit:

- (i) The Bidder should submit security deposit of 5% of the quoted price in the form of FDR of Nationalized Banks or DD payable to Director, NIT-Raipur payable at Raipur as Bid security Deposit. The Bid security deposit will be refunded to all bidders within one week of Bid opening without interest except for the successful tenderer.
- (ii) The successful Bidder will have to deposit Performance security Deposit @5% of ordered value of goods in the form of FDR of Nationalized Banks or DD payable to Director, NIT-Raipur payable at Raipur.
- (iii) The successful Bidder will be refunded the Bid security deposit after receipt of Performance security Deposit.
- (iv) The performance security deposit will be refunded without interest after expiry of warranty/warranty period or 14 months whichever is later.
- (v) No claim shall be made in respect of interest on any Security Deposit. The Security deposit is liable to be forfeited in case of non-compliance of the Purchase Order or failure to complete delivery as per terms of the order within the scheduled delivery period.

32. Arbitration: Any dispute of any nature whatsoever or regarding any right, liability act or account of any of the parties hereto arising out of or in relation to this contract/order shall be referred to the sole Arbitration of The Director of NIT Raipur. The award of Arbitrator so appointed shall be final and conclusive and binding on all parties to this agreement/standard terms and conditions relating to this order subject to provisions of the Arbitration and conciliation act, 1996 or statutory modifications of the enactment thereof.

33. All disputes arising out of this tender and subsequent contract, if any, are subject to the jurisdiction in the district of Raipur, Chhattisgarh.

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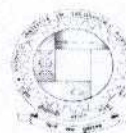
Format-I
Tender's Organization
Details of Experience/Competence
(To be filled in reverse order i.e. the last order to be kept on sl. no.-1)

Sl. No	Name of the Client Organization	Amount of the Tender	Any other relevant detail
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Signature of the Tenderer

14

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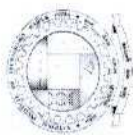
Format-II
Tender's Organization
Details of Manufacturing Equipment/Facilities Available

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Signature of the Tenderer

A handwritten signature in blue ink, consisting of a stylized 'S' followed by a horizontal line.

29



NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR
Format-III
Technical Bid

Item Code	Item Name	Technical Specifications	Make/Model	Remarks	Only for official Use

Please attach sheets if required.

Term and conditions:

- 1
- 2
- 3
- 4

Signature of the Bidder



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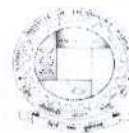
Format-IV

Commercial Bid

Item Code	Unit price of each item	Sales tax, VAT, if applicable	Customs duty if applicable	Excise duty if applicable (acceptance of exemption certificate should be clarified).	Packing, forwarding and freight charges, If any	Total cost per unit	Validity of quote

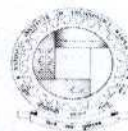
Please attach sheets if required.

Signature of the Bidder



Details of Bidder

Tenderer's Reference No.....		Date:	
1.	Application for the supply		
2	Name of the Tenderer		
	Address		
3	Telephone No.	Fax No.	
		Mobile	
		E-mail	
4	Earnest Money		
	(a) Amount		
	(b) DD No. & Date		
5	Status of the applicant (Whether manufacturer/authorized Indian stockist/dealer)		
6	Manufacturing license No. & date (If applicable)		
7	Sales Tax Registration No. & date		
8	Income Tax PAN No.		
9	ISO/ISI award letter No. (Attach photocopy)		
10	Turnover: 2007-2008 2008-2009	Rs..... Rs.....	
11	Your company / firm is blacklisted by any Department of Central/State Govt./ or any Organization	Yes / No	
12	Details of Clients (to be enclosed, in different sheet)		
13	Detail of single largest order complied		

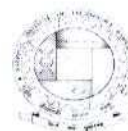


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	during last year	
	(a) Name of client & address	
	(b) Amount	
14	Indicate whether after-sales service available	
	(a) No. of Engineers and other Technical Staff	
	(b) No. of Vendors	
	(c) No. of Service Stations and their locations	
15	Nearest dealer's name and address	
16	Please enclose separately the technical bid and commercial bid in sealed envelope of the product for which tender is submitted	

I hereby declared that the above mentioned details are true to the best of my knowledge.

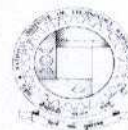
Signature of the Bidder



List of Items Required

<i>Item Code</i>	<i>Name of the Items</i>	<i>Quantity</i>
DIR/CT	Conference Tables	02 set
DIR/ET	Executive table with side unit and back unit	01
HOD/EC	Executive chairs	25
HOD/ET	Executive table	25
FAC/ST	Faculty tables	132
FAC/SC	Faculty Chairs	130
FAC/VC	Visitors' Chair	170
STU/SB	Students' benches (Dual Desks)	500
COM/BS	Book shelves	150
COM/ST	Stools	200
COM/CT	Computer tables	242
COM/SC	Seminar Chairs	300
COM/ALR	Almirah	220
GH/BB	Bunk bed	40
NITH/ST	Study Table For Hostel	100
NITH/SC	Study Chair For Hostel	275
NITH/RAC	Steel Rack For Hostel	250
NITH/COT	Cot For Hostel	40
NITH/CC	Computer Chair	202
ARCHI/CC	Chair for Auditorium	60

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DIR/CT	Conference Tables	02 set
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Product Specifications for Conference Table:

Size – 2400mm (W) x 1200mm (D) x 760mm (H)

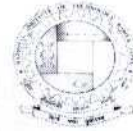
Top –work surface should have total thickness of 38.0mm Top should be made up of medium density fibre. (MDF) PVC membrane foil should be clad on the MDF substrate.

Edge Profile: Waterfall edge with radius of 18mm on top edge.

Legs: Legs should be made from 36mm particle board having a straight profile with half round edges and should be clad with 0.6mm post forming laminate Overall thickness of leg should be 38mm.

Modesty panel: It should be made from pre-laminated board having 18mm thickness.

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DIR/ET	<i>Executive table with side unit and back unit</i>	01
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Product Specifications for Executive-Table for Director's chamber

It should have three units-Desk, Extended unit, Back unit as per given below:

1. Desk:

Dimensions (mms) for Desk (RHS and LHS), W=2400, D=1200, H=740

Top : Work surface:- 40mm thick (18mm MDF batons + 4mm natural veneer) veneered portion of worksurface should finished in high gloss polyster.

Under structure: Legs:- made from 1.6mm thick MS clad with strips of MDF. Legs should be hollow to facilitate wire management.

Modesty & Side panel: 18mm Thick MDF, pigmented black and coated with melamine.

Storage: Drawer Unit: Constructed from 18 mm thick MDF boards have a combination of 2 box drawers+ 1 filing drawer. Drawers mounted on double extension balls slides. Drawer fronts are in natural veneer coated with high glass polyster.

2. Extended Return Unit (ERU)

Dimensions (mms) for ERU (RHS and LHS), W=1400, D=580, H=690

TOP: Worksurface:- 40mm Thick (18mm MDF batons +4mm Natural veneer) veneered portion of worksurface should finished in high gloss polyster and the worksurface has a base coat of polyster and top coat of polyurethane.

Understructure: Modesty panel:- 18mm thick MDF, pigmented and coated with melamine.

Storage: Drawer Unit:- Constructed from 18mm Thick MDF boards has a combination of 2 box drawers+ 1 filing drawer. Drawer mounted on a double extension ball slides. Drawer fronts are in natural veneer coated with high glass polyster.

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Backunit

Dimensions (mms) for Back unit, W=1860, D=580, H=670

3. Top

Worksurface:- 40mm Thick (18mm MDF batons + 4mm Natural) veneered portion of worksurface should be finished in high gloss polyster & black portion of worksurface has a base coat of polyster and top coat of polyurethane.

Back Unit

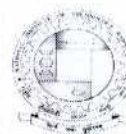
Door:- 23mm thick (18mmMDF+4mm veneer +1mm Backling Decorated Laminate (BDL) veneered doors coated with high gloss polyster pigmented doors coated with melamine. Doors are mounted on concealed hinges.

Shelves & partitions:- 18mmthick MDF, pigmented black and coated with melamine.

4. Towers

Dimensions (mms) for Tower unit, W=400 each tower, 1700 overall, D=400, H=1200 Panels:- 18mmThick MDF pigmented .

Glass:- 12mm Thick float glass, edge are diamond cut polished.



HOD/ET	Executive table	25
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Product Specifications for Executive Table:

The table should be made up of steel frame and pre-laminated board.

Size – 1800mm (L) x 1200mm (W) x 760mm (H)

With one 2 drawer unit and one three drawer unit

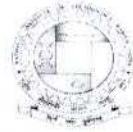
Table Top – 23 mm thick (Pre-laminated board)

Side panel – 18mm thick

Back panel – 18mm thick

Steel frame should be powder coated. All the sheet metal components should be made from prime quality CRCA sheets conforming to IS – 513 – 1986. All the sheet metal components should be given anti rust treatment prior to painting. It should be made of high quality melamine surface finish. The thickness of the sheet (M.S.) should be 2 mm.

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HOD/EC	Executive chairs	25
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Product Specifications for Executive Chair

Seat/Back Assembly: The seat and back should be made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam should be designed with contoured lumbar support for extra comfort. The chairs Size should be – 490 mm. (W) x 710 mm. (H)
 Seat Size (Both type of chairs): 490 mm. (W) x 440 mm. (D)

Armrests: The one-piece armrests should be made of black polyurethane and reinforced with M.S. insert. The armrests should be scratch and weather resistant. The armrests should be fitted to the seat with seat/armrest connecting strip assembly made of 5 mm. thick HR Steel.

Centre Pivot Mechanism: The center pivot mechanism should be designed with the following features:

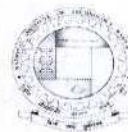
- 360° revolving type 17° maximum tilt on pivot at center.
- Tilt tension adjustment.
- Upright locking.

Pneumatic Height Adjustment: The pneumatic height adjustment should have an adjustment stroke of 125 mm.

Telescopic Bellow Assembly: The bellow should be 3 piece telescopic type and injection moulded in black Polypropylene.

Pedestal Assembly: The pedestal should be made of HR steel and fitted with 5 nos. twin wheel castors (castor wheel dia. 50 mm). The pedestal should be of 650 mm pitch-centre dia. (750 mm with castors).

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FAC/ST	Faculty Tables	132
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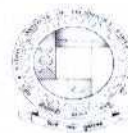
Product Specifications for Faculty Table

The table should be made up of steel frame and pre-laminated board.

Size of Table: 1500mm (L) x 900mm x 750mm (H)

With one 2 drawer unit and one three drawer unit. Front covered. 23mm pre-laminated board top should be there, Steel frame should be powder coated. All the sheet metal components should be made from prime quality CRCA (cold rolled closed annealed) sheets confirming to IS 513 – 1986. All the sheet metal components should be given anti rust treatment prior to painting. The thickness of steel frame should be 2mm.

leg



FAC/SC	Faculty Chairs (Revolving)	130
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Product Specifications for Faculty Chairs

Seat/Back Assembly: The seat and back should be made up of 12 mm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam should be designed with contoured lumbar support for extra comfort.

The chair size should be – for Back-490mm (W) x 470mm (H) and for seat – 490mm (W) x 440mm (D).

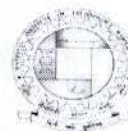
Armrests: The armrest tops should be of black Polypropylene. They should be fitted to tubular armrest supports, and black powder coated. The tubular armrest supports should hold together the seat and back.

Centre Pivot Mechanism: The centre pivot mechanism should be designed with the following features: 360° revolving type, 17° maximum tilt on pivot at centre, Upright locking.

Pneumatic Height Adjustment: The pneumatic height adjustment should have an adjustment stroke of 125 mm.

Telescopic Bellow Assembly: The bellow should be of 3 piece telescopic type and made up of Polypropylene.

Pedestal Assembly: The pedestal should be fabricated from 2mm thick CR steel, powder coated and fitted with black Polypropylene hub cap and 5 nos. twin wheel castors. (castor wheel dia, 50mm) The pedestal should 600mm pitch-centre dia. (700 mm with castors).



FAC/VC	Visitors' Chair	170
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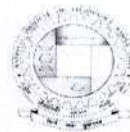
Product Specifications for Visitor's Chairs

Seat/Back Assembly: The seat and back should be made up of 12 mm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam should be designed with contoured lumbar support for extra comfort.

The chair size should be – for Back-490mm (W) x 470mm (H) and for seat – 490mm (W) x 440mm (D).

Armrests: The armrest tops should be of black Polypropylene. They should be fitted to tubular armrest supports, and black powder coated. The tubular armrest supports should hold together the seat and back.

Tubular Frame : The tubular frame should be of cantilever type. Tubular frame should be made of powder coated mild steel with 25.4 mm. diameter of 2mm thickness of steel sheet.

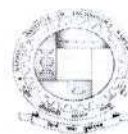


STU/SB	<i>Students' benches (Dual Desks)</i>	500
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Product Specifications for Student Desk cum Bench

The tops, panels, seat and back should be made of 18mm thick pre laminated board with PVC edge bending on all side. Understructure should be made of powder coated steel tubes at base which are welded to the desk & seat supports should be made of 1.0mm thick powder coated Mild steel Stiffeners that are provided between the 2 vertical frames at base and back of seat should be made of 254 x 254 x 1.25mm thick powder coated ERW (extended rolled welded) tubes. The tubes should be closed with plastic caps. Additional horizontal supports of 1.5mm thick powder coated MS should be placed below the desk and seat to add to the rigidity of the structure. The storage shelf should be made of 0.8mm thick powder coated MS sheet which should affixed below the desktop. Hooks should be provided on either sides Level adjustors should be provided to take care of unevenness in floor.

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COM/BS	Book shelves	150
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Product Specifications for Book Shelf

Product Size – 914 mm (W) x 320 mm (D) x 1742 mm (H) 4 Doors

Construction & Material – It should have rigid Knock down construction with Prime Quality CRCA Steel- Panels & Frame from 0.8 mm thick material.

Door Features / Locking – Each Door should have 10 lever Cam lock with common key. Each Door should have 3 mm thick transparent glass for clear inside vision secured in a Metal Frame through rubber gasket. Each door should have a Scissor mechanism for receding inside the top of respective compartment & ensures parallel & smooth movement. Each door should have Plastic side end caps as Handle which is easy to grip.

Behind Storage Shelving – Each compartment should have storage shelf with uniformly distributed load capacity per each shelf- 80 kg maximum.

Top Panel – Shelf should have inside Metal Top Panel.

Finish – It should be Epoxy Polyester Powder coating.

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COM/ST	Stools	200
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Product Specifications for Stools

Seat Assembly: The seat should be made up of 12 mm thick I.S.I. Grade plywood with moulded Polyurethane foam and should be upholstered with replaceable fabric covers. The upholstery should be available in leather cloth and fabric.

Seat Size: Diameter 400 mm

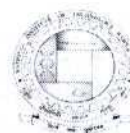
Adjustments: 360 Degree Revolving type

Back Assembly: The back foam should be designed with contoured lumbar support for extra comfort. The upholstery should be available in leather cloth and fabric.

Back Size: 450 mm (W); covered with U foam.

Adjustment: The manual adjustment should be very easy to operate with the help of a knob. It should be locked at the most comfortable position.

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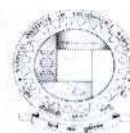
COM/CT	Computer tables	242
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Computer Table Specification:

It should be made of pre-laminated board.

Width: 1110-1195, Height: 760, Depth: 650 (all in mm.), 18 mm-thick laminated particleboard resistant to moisture and termites, Sliding tray for the keyboard and mouse , Platforms underneath the table for holding the CPU, Printer and the UPS, At least one lockable drawer, With lockable castors

lep



COM/SC	Seminar room Chairs	300
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Product Specifications for Seminar Room Chair:

The writing support arrangement (desklet) must be capable of resting at the side of the table without creating any distracting sound through a mechanism involving 180° movement in horizontal and vertical planes respectively.

Seat/Back Assembly: The seat and back should be made up of 12 mm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam should be designed with contoured lumbar support for extra comfort.

Back Size: 490 mm (W) x 470 mm. (H)

Seat Size: 490 mm (W) x 440 mm (D)

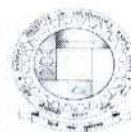
Tubular Frame: The tubular frame should be cantilever type and black powder coated. The Armrest tube should be welded to mainframe. The desklet should be fitted on the right hand side.

Desklet Assembly: The wooden desklet should be made of 1.8 cm thick. Pre-laminated chipboard with 2 mm thick. P.V.C. lipping all around Size: 540 mm (W) x 290 mm (D)

Armrests: the armrests should be made from chemically treated & seasoned wood with black melamine polish

Paper Tray: The paper tray should be made of 2 mm dia M.S. wire spot welded to form a mesh. It should be black powder coated. Size: 345 mm. (W) x 350 mm (D)

leg



COM/ALR	Almirah	220
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Product Specifications for Almirah

Size of Almirah (Big) – 900mm (Width) x 450mm (Depth) x 1830mm (Height)

Construction & Material – It should be Rigid Knock down construction with Prime Quality CRCA Steel – Panels from 0.6 mm thick & Front frame, Shelf 0.8 mm thick.

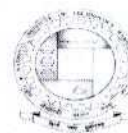
Locking & handle – Handle should be of Plastic Recessed Handle cum Cam Lock with 3 way locking mechanism.

Shelving – It should be facilitated with Height wise Adjustable Shelf Mounting. The uniformly Distributed Load Capacity per each full shelf should be 80 Kg maximum. The Almirah should have 4 Nos. of Adjustable Full Shelves.

Top – The Almirah should have Metal Top.

Finish – It should be Epoxy Powder coated.

ly

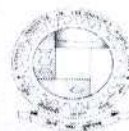


GH/BB	Bunk bed	40
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Product Specification of Bunk bed

S.No	Features/Attributes	Specifications
1.	Product Size	• Deuce bunk bed having product size as over all bed size: Width 972mm, Length 2064 mm X 1566 mm height from floor to top bed. Total size with head rest and side rest is 986 mm wide X 2154 mm length multiplied 1654 mm height. • Lower bed at a height of 380 mm and upper bed with head clearance of 950 mm(total variance of +/- 10 mm). • To accommodate 911 mm X 1980 mm X minimum 12 mm ply board, to support mattress.
2.	Construction	• Construction(Totally knockdown construction) • Material made of CRCA steel. • Vertical member in 44.45 mm X 1.0 mm thick round tube. • Cross member in 25.4 mm X 1.0 mm thick rectangular tube • Mattress support on 16 mm X 1.25 mm thick square tube welded across length with C/C distance of 465 mm to the cross member. • Side rests supported/connected on vertical frame with the help of a collar bush made of nylon. • Leg and head rest integrated on vertical members with 22 mm X 1.25 mm diameter, round tube. • Upper bed provided with side rests integrated in the vertical member of 44.45 mm X 1.00 mm diameter around tube. • Bed platform connected to the vertical

Sp



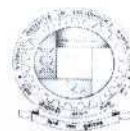
NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR

		support with 40.0 mm X 73.5 mm X 3 mm thick rectangular bracket, welded all over over.
		• All open pipe ends are closed with ABS end caps.
3.	Product quality	• Product quality static load carrying capacity 240 kgs UDL. • Impact resistance of 50 kgs from the height of 300 mm.
4.	Finish	• Epoxy powder coated to the thickness of 50 microns(+/-10 microns).Spray phosphating eight stage spray phosphating line, followed by drying in oven. • Iron phosphate deposit on components is 0.3 gm/m² minimum. As per IS-3618 1966 reaffirmed in 1991 and IS-6005 1998.
5.	Guaranty	• Warranty against any manufacturing defect or poor workmanship for the period of 24 months from the date of billing/ after completion of order.

Technical Specification of Ply Board

S.No	Items	Specifications
1.	Ply Board	• 20 mm thick anti termite treated plyboard with ISI mark

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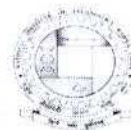
NITH/ST	Study Table For Hostel	100
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Product Specification of Study Table for Hostel

1. The table should be size of -1200X600X750 mm
2. The table should be made of prelaminated board with 18 mm thick table top and 15 mm thick understructure and it should have one drawer with locking facility.

Table top: 18mm thick Pre-laminated board on which 1 mm thick powder coated mild steel sheet of highest quality should be clad making the total top thickness 19mm. All the metal components are to be pretreated (degreased with zinc phosphate) and epoxy powder coated for better corrosion resistance. The thickness of powder coat should be 45-50 microns.

14

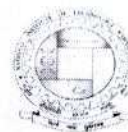


NITH/SC	Study Chair For Hostel	275
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Product Specification of Study Chair for Hostel

1. Seat/back assembly: The seat and back should be made from 10.0 mm thick hot pressed resistant, commercial plywood upholstered with P.U. foam and fabric.
Back Size: 420 mm (W) X 270 mm(H)
Seat size: 420 mm(W) X 420 mm(D)
2. Poly urethane foam: The polyurethane foam should be moulded with density equal to $45 \pm 2 \text{ kg/m}^3$ and reasonable hardness.
3. Understructure assembly: The assembly should be a mainframe made of dia. 25.4 mm(1")X 14 BG M.S. tube and a welded leg tube made of dia. 25.4 mm.(1")X 18 B.G. M.S. tube to the form complete assembly which is black powder coated.

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NITH/RAC	Steel Rack For Hostel	250
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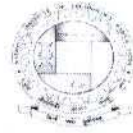
STEEL RACK

Steel Rack made of MS Angle frame of 35x35x5mm frame & two shelves made of 20 gauge CR sheet over support of MS flat of 25x5mm & back & side covered with MS flat of size 25x5 mm.

SIZE: H 900 x W 900 x D 450 (mm)

Painting: One coat red oxide primer & two coats of enamel paint of Grey colour

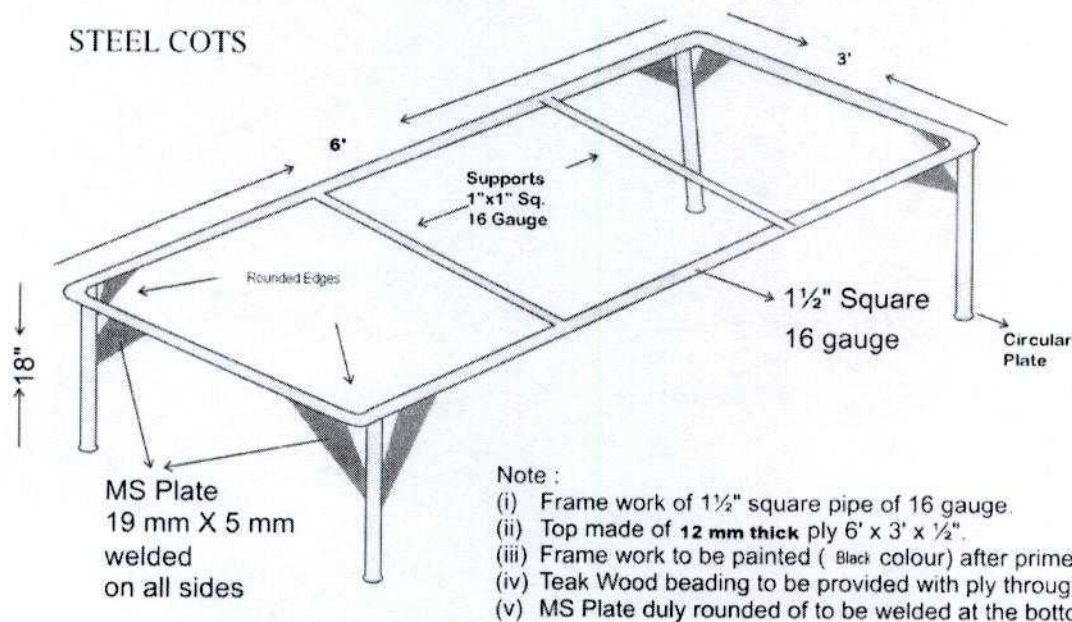
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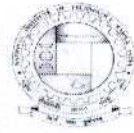
NITH/COT	Cot For Hostel	40
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Product Specification of Steel Cot

Fabrication of 4x4 mm square pipe 16 gauge heavy duty & 2 supports 2.5x2.5 mm square pipe 16 gauge by welding. After fabrication of cot structure, pipe ends should be properly closed- top, bottom & sides by welding M.S. Plate 5mm thick Triangle side 19mm fitting properly by welding all side of cots. After completion of fabrication, grinding should be done to remove sharp edges properly by rubbing of cot by Emery paper and filling metallic putty in welding & pin holes then steel primer is to be applied 2 coat of good quality paints of enamel black colour, providing and fixing of ply board ISI Mark 12mm thick (BWR) Boiled Water Resistance with teak wood, half round beading fixing all side of board duly polished of board sealer two or more coats touch wood by spray, Fabrication of cot as per drawing.



Signature



NITH/CC	Computer Chair	202
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Specification Required:

The chair should have an option of a permanent contact mechanism, which should allow the back to flex naturally as one reclines, for maximum comfort and relief. It should be designed for back-support and avoid strain along with a waterfall seat edge to provide added comfort. The seat and the backrest should be made of moulded polyurethane foam of the right density and thickness, which gives a soft feeling on first contact but also provides a firm support to ensure hours of comfortable sitting. It should have pneumatic height adjustment at a press of a lever, so that one can adjust the seat of the chair to the required height. It should also provide a cushioning effect each time anybody sits, preventing sudden jerks to the body. There should be the swivel mechanism which allows for a complete 360 degree lateral movement with the twin wheel castors facility for easy movement. Dimensions required are as follows.

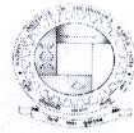
Width (W): 650mm

Depth (D): 650mm

Height (H): 825-950mm

Seat Height (SH): 400-525mm

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ARCHI/CC	Chair for Auditorium	60
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Cushioned chair for Auditorium. Three seater chair with common arms with back tilt on common beam.

Features: Seat/Back: The seat/back should be made up of 12 mm thick hot pressed plywood, upholstered with fabric and moulded polyurethane foam with PVC lipping all around. The back foam should be designed with contoured lumbar support for extra comfort.

Seat size: 450 mm(W)X 425 mm(D) **Back size:** 450 mm(W)X 690 mm(H)

Permanent Contact Mechanism

The chair should provided with permanent contact mechanism with 14° back tilt. The tilt tension should be adjusted to suit one's preference.

Tubular Understructure: The understructure should be made of powder coated M.S. horizontal beam 60 mm x 60 mm x 2mm (thick) powder coated.

Armrests: The one piece armrests should be made of integral skin polyurethane foam reinforced with M.S. mounted on M.S. bracket covered with an injection moulded P.P. cladding on outer side. The armrests should be scratch and weather resistant.

Powder Coating: All steel components should be epoxy polyester powder coated with following specifications:

Dry film of proper thickness. Withstand more than 1000 hours in salt spray test
Scratch hardness withstanding upto 4.5 kg