OFFICE OF THE PRINCIPAL
GURU GOBIND SINGH MEDICAL COLLEGE, FARIDKOT - 151203
SHORT TERM TENDER NOTICE

Per seat item-rate SEALED TENDERS ARE INVITED from manufacturers for providing & fixing 470 anchor fasteners Writing Bench-cum-Seats for Lecture Theatres, up to 05.01.2012 by 1.00 pm and to be opened on the same day at 3.00 p.m. The General Instructions, Technical Specifications and Sample for Financial Bid, can be downloaded from University Website : www.bfuhs.ac.in

PRINCIPAL, GURU GOBIND SINGH MEDICAL COLLEGE, FARIDKOT

details on the following pages…

Tender Invitation for Writing Bench-cum-Seats for Lecture Theatres

GENERAL TERMS AND CONDITIONS

1. The tender form should reach in the office of the "Principal, Guru Gobind Singh Medical College, Faridkot" on or before 05.01.2012 up to 1.00 PM.

2. The tenders will be opened on 05.01.2012 at 3.00 pm in the office of the Principal, Guru Gobind Singh Medical College, Faridkot

3. Pre-Bid meeting will be held on 30.12.2011 in the office of the Principal, Guru Gobind Singh Medical College, Faridkot

4. The words "Tender for Furniture for Lecture Theatre" should be written on the top of sealed envelope addressed to the Principal, Guru Gobind Singh Medical College & Hospital, Faridkot and this envelope should contain the following sealed covers in DUPLICATE:-

   a) Sealed cover containing Technical Bid i.e. technical specifications along with General Terms & conditions duly signed on each page along with a Demand Draft for Rs.1000/- (Tender document fee) in favour of 'Principal, Guru Gobind Singh Medical College, Faridkot' payable at Faridkot The words "Technical Bid" should be written on the top of this sealed envelope.
   b) Sealed cover containing Financial Bid i.e. rates quoted as specified in BOQ. The words "Financial Bid" should be written on the top of this sealed envelope.
   c) Sealed cover containing Earnest Money i.e. 2% of the amount quoted in the shape of Demand Draft of any scheduled bank in favour of Principal, Guru Gobind Singh Medical College payable at Faridkot. The words "Earnest Money" should be written on the top of this sealed envelope. The earnest money will be adjusted against the security amount.

5. This institution reserves the right to reject tenders without assigning any reason.

6. Any tender, which is not in the proper form or received late will not be entertained.

7. All the disputes are subject to jurisdiction of Fridkot.

8. Tenderer should indicate their sale-tax, VAT No. Registration No. in their offers.

9. VAT, Sales Tax, Inter- State Tax or any chargeable duty must be specified/mentioned failing which no sales tax or duty will be allowed at a subsequent stage.

10. The 90% payment will be made after delivery & Inspection/fixation of furniture at the destination and remaining 10% payment will be released after 60 days from the date of inspection/fixation of furniture. The material will be accepted only if it is found as per approved specifications.

11. If the Tenderer fails to complete work/supply of material within stipulated period then Employer will terminate the contract or get it executed by some other party or get it executed in part / balance on the contractor's cost.

12. Tenderer should not quote their own mode/terms of payment otherwise their offer is liable to be ignored.

13. All copies of documents attached with the tender (even Photostat copies) should be self attested.

14. Minimum completion period must be quoted clearly in the offer.

15. The supply of material must meet CE/ISO/ISI standard in quality.

16. The Tender Biding Company will make arrangements for inspection of material by the Committee at their own expenses.

17. The firm should have been in existence for at- least three years and it should have turn over of at least fifty lacks in the last financial Year.

18. The Manufacturer or their authorized supplier should not have been black-listed or debarred by Govt. of India/ by other State Govt/Institute of India. Every tenderer should attach a declaration to this effect.

19. Only Manufacturer /Authorized dealer (Supplier) should quote the rates.

20. At least three samples of the Chairs shall be submitted by the supplier, and these samples, if the tender is accepted shall constitute the standard as regards the type of timber, quality and finish.

21. Successful bidder will deposit 5% of the total value as security deposit within 10 days from the date of Work Order is placed and the amount will be released after expiry of Guarantee/Warranty period. The earnest money will be adjusted against the security amount.

TECHNICAL SPECIFICATIONS

BILL OF QUANTITY (BOQ) FOR WIRITING BENCHES-CUM-SEATS FOR LECTURE THEATRES

Sr.No.	Particulars	QTY	Unit
1	BASE FRAMES		
	Providing & fixing of Benches for Lecture Theatres, made of MS Angle frames of size 50x50x6 mm, made of approved make and type of iron, to be fixed with anchor fasters in ground. MS frames should be coating with one coat of metal surfacer and minimum two thin layers of ESPA Paint, proper thinner should be used for dilution of paint.	470	EACH
2	DESK		
	BWR Grade 19mm thick ply of approved make to be fixed on the desk. Desk should be comprising of two levels, one should for writing/reading purpose and lower portion for keeping books. It should be laminated with 1mm thick mica of approved shade. Laminate should strictly be pasted with approved make and standard of adhesive. Teak wood liping of size 19x6 mm should be fixed over all the edges of the ply before pasting laminate. Anti-termite treatment and enamel paint should be applied to the ply wherever it is bare.		
3	SEAT		
	Seat of the bench should be fitted with teak wood frames as per size and drawing, to be fixed, duly polished with approved shade and type. Teak wood to be used should be as per detailed specification of all tests and measures.		
4	BACK		
	Cushioned back, as per design, made of 19mm ply of approved make, quilted with high density (40D) PU Foam(Make:Sleepwell), cladded with leatherite upholstery, basic price of the upholstery should not be less than Rs.300/-		

Note: 1. **No. of seats may increase or decrease as per requirement.**
2. **See Annexure 'A' for Drawings for elevation of Benches.**

MATERIALS

ADHESIVES

1. **Nature of the surface to be bonded** when bonding to walls, the regularity of the plaster or cement screeds should be particularly noted. The area to be bonded together with the size of panels, tiles, etc, should be stated.

2. **Location of the installation** Not only should mention be made of internal and external locations. But the actual conditions of service, i.e. maximum temperature, Humidity, structural movement , etc should also be assessed.

3. **Assembly technique** Possible conditions of site assembly should be noted and restrictions on technique assessed, i.e. whether it is possible to apply adhesive to both surfaces, whether it is necessary to position the assembly after making the bond etc.

4. **Application:** the required preparation of the surfaces to be bonded should also be carried out carefully. All surfaces should be firm and free from dust. Loosed material on brickwork, etc, should be removed by thorough use of a wire brush. Surfaces with a high gloss should be roughened with sandpaper or emery. It is usually necessary to make sure that the surfaces are dry. and to protect the job from rain if necessary assembly.

5. **Clean tools should always be used for applying the adhesive.** When making an overall bond (e.g. with contact adhesive) care should be taken to obtain and even film of adhesive. On porous surfaces it may be necessary to apply two coats to ensure an adequate dry film on the surface.

6. A large number of adhesion failures are caused by using an incorrect drying time. When a two-way dry- Stick is used it is essential that the manufacturers' instructions are closely followed on the point if the drying time is too long, then the two adhesive films will not fuse completely and once again a poor bond will result. A similar effect will be obtained once again a poor bond will result. A similar effect will be obtained if the adhesive films are not thoroughly pressed into contact With most adhesives high pressure to the assembly to bring the two bonding surfaces into intimate contact must be removed before applying adhesive.

SPECIFICATIONS FOR WOOD WORK

1. SCOPE:

The works covered under this specification consist of providing, making and fixing of wooden frames on benches in accordance with these specifications and drawings.

2. APPLICABLE CODES & SPECIFICATIONS

The relevant I.S. specifications standards and codes given below are made a part of this specification. All standards, specifications, code of practices referred to herein shall be the latest edition including all applicable amendments, revisions and additional publications.

List of Indian Standards

No.	I.S. No.	I.S. Particulars
1	I.S. 287	Recommendations for maximum permissible moisture content of timber
2	I.S. 401	Code of practice for preservation of timber
3	I.S. 851	Specification for synthetic resin adhesives for construction work in wood
4.	I.S. 1141	Code of practice for seasoning of timber
5.	I.S. 1200 (Part-XXI)	Method of measurement of building and civil engineering works. (Wood work and joinery)
6.	I.S. 1708 (Part-1to 18)	Method of testing of small clear specimens of timber.
7.	I.S. 7196	Specification for hold fast.

3 TEAK WOOD FRAMES:

a) Teak Wood frames shall be of 1st quality timber of C.P. teak wood and brought & put up to section as indicated on the drawings or as directed by the Architects.

b) There shall be properly framed and mortised and tongued together at right/suitable angles and set correctly in the masonry or concrete.

c) The wooden frame shall rest on structural slabs and not on finished floor level.

d) M.S. holdfasts 50 mm long and 3 mm thick shall be fixed as shown in drawing or as directed by the Architects to hold the teakwood rough ground frames/door frames firmly in the masonry.

e) Where the rough ground/frames are placed by the side of concrete surface they shall be fixed firmly against the concrete surface by means of teak wood gutties and screws.

f) All MS hold fast shall be fastened to the frame using adequate number of MS screws all other door frames shall be fixed as per fixing details shown in relevant drawings.

g) The surface of frames in contact with MS frames shall be painted with two coat of bituminous paint.

h) The frame shall be as per drawing and shall be provided with triangular keys for the plaster if indicated in the drawing .

i) All frames shall be protected with one coat of approved polish as specified.

j) The teakwood beading/ cover mould/ stopper of the specified sizes shall be fixed on to the frame as shown in the drawings and shall be fixed on to the frame as shown in the drawings and shall be free from knots and sap wood.

4. MS Angle Iron & Strip

Cast Iron should be according to the below given table :-

Grade					Tensile Strength (InMpa)	Hardnes s (BHN)
IS:210197 (Indian Std)	ISO/R 185-1961 (UK Std)	BS14 52; 1961 (UK Std)	DIN 1691 (German Std)	ASTM A-48-1976 (American Std.		
FG 150	15	10	GG-15	20-A/25A	150	130-180
FG 200	20	12	GG-20	30A	200	160-220
FG 220		14			220	180-220
FG 260	25	17	GG-25	35-A	260	180-230
FG 300	30	20	GG-30	45-A	300	180-230
FG 350	35	23	GG-35	50-A	350	207-241
FG 400	40	26	GG-40	60-A	400	207-270

A Comparison of the properties
of the normally used cast metals in given in below table:

Casting	Weld ability	Cast ability	Damping capacity	Mach inability
Steel	Excellent	Fair	Fair	Fair
Nodular Iron	Difficult	Good	Fair	Fair
Grey Iron	Difficult	Excellent	Excellent	Good
Malleable Iron	Difficult	Good	Roughly related inversely to the modulus of elasticity	Good
Aluminum Base	Highly susceptible to cracking	Excellent	Poor	Good to Excellent
Copper Base	Careful Control needed	Fair to Good	Poor	Fair to Good
Magnesium Base	Readily welded Preheat needed	Good to Excellent	Poor	Excellent
Nickel Base	Fair	Fair	Poor	Fair
Zink Base	Difficult	Excellent	Poor	Excellent

Standard as per ISI

Indian IS(Indian Standards Institution)standards
IS 1030 Carbon steel casting for general engineering purposes

5. Moisture Content

Control on moisture content of timber is necessary to ensure its proper utility in various climatic conditions. For specifying the permissible limit of moisture content in the timber the country has been divided into four climatic zones as per Appendix B of Chapter 9. In each of zones, maximum permissible limit of moisture content of timber for different uses, when determined in accordance with the procedure laid down, shall be as per below:-

TABLE

Maximum permissible Moisture Content of Timber

Sr.	**Contents**	**Use Max. Moisture Content Percent**			
		Zone I	Zone II	Zone III	Zone IV
1.	Beams, Rafters & Posts	12	14	17	20
2.	Doors and Windows a) 50 mm and above thickness b) Thinner than 50 mm	10 8	1 10	14 12	16 14
3.	Flooring strips	8	10	10	12
4.	Furniture & Cabinet making	10	12	14	15

6. Tolerance on Moisture Content:

Average Moisture content of all the samples from a lot shall be within + 3 percent and moisture content of individual samples within + 5 percent of maximum permissible moisture content specified in Table 9.2. These tolerances are the absolute values over the percentage moisture content for Sl. No 1 & 2 of Table 9.2 No tolerance on moisture content is permitted for Sl. No. 3 & 4 of Table 9.2.

7. Seasoning of Timber

The process of drying timber under controlled conditions is called seasoning of timber. Timber shall be either air seasoned or kiln seasoned and in both cases moisture content of the seasoned timber shall be as specified in Table unless otherwise specified, air seasoned timber shall be used. Kiln seasoning of timber, where specified, shall be done as per IS 1141 in a plant approved by Engineer-in-Charge.

8. Preservation of Timber

Preservation treatment does not improve basic properties of timber but gives varying degree of protection against deterioration due to attacks by fungi, termites, borers and marine organisms. Preservative treatment, where specified, shall be done using Oil type, Organic solvent type or Water-soluble type preservative. Oil type preservatives shall be used if the timber is not required to be polished or painted. Before preservative treatment, the timber shall be sawn and seasoned. All surfaces exposed after treatment, expect due to planning, shall be thoroughly brushed with the preservation before jointing. Preservative treatment of timber shall be done as per IS 1141 in a pant approved by Engineer - in-Charge.

9. Plywood/Plywood Boards

Plywood boards are formed by gluing and pressing three or more layers of veneers with the grains of adjacent veneers running at right angles to each other. the veneers shall be either rotary cut or sliced and shall be sufficiently smooth to permit an even spread of glue. Face veneers may be either decorative on both sides or one side commercial and the other decorative. Plywood shall be of **BWR** grade or BWR grade as per IS 303.

Adhesive :

Adhesive used for bonding BWP grade of plywood boards shall be BWP type synthetic resins conforming to IS 848.

The thickness of all veneers shall be uniform, within a tolerance of ±5 percent. Corresponding veneers on either side of the centre one shall be of the same thickness and species. The requirements of thickness and core veneers shall be as follow :-

a) In 3 ply boards upto 5 mm thick . The combined thickness of the face veneers shall not exceed twice the thickness of centre ply.

b) In multiply boards, the thickness of any veneer shall not be more than thrice the thickness of any other veneer.

c) The sum of the thickness of the veneers in one direction shall approximate to the sum of the thickness of the veneers at right angle to them and shall not be greater than 1.5 times this sum except for 3 ply as specified in (a).

Thickness

Plywood boards are available in thickness ranging from 3to25mm.Tolerance in thickness shall be ± 10% for boards upto and including 5 mm;±7% for boards from 6 to 9 mm and ± 5% for boards above 9 mm thickness. The boards shall be of uniform thickness and the surfaces of the boards shall be sanded to a smooth finish. Number of plys in plywood boards shall be as per Specification.

Moisture content of the plywood boards when tested in accordance with IS 1734(Part 1) shall not be less than 5 percent and not more than 15 percent.

Testing

One sample for every 100sqm or part therefore shall be taken and testing done as per IS 303. However, testing may not be done if the total requirement of plywood boards is less than 30 sqm. All the samples tested shall meet the requirements of physical and mechanical properties of plywood boards specified in Appendix D of Chapter 9.

Marin Plywood

Marine plywood shall be generally conforming to IS 710. Selection of timber species for manufacture of plywood shall be as prescribed in IS 710 and as far as possible a single species of timber shall be used.

Adhesive

The adhesive used for bonding the veneer shall be of the hot press synthetic resin, phenol formaldehyde type (BWP)and shall uniform to IS 848.Extender shall not be added to the adhesive by the plywood manufactures. Fillers, if used, shall not exceed 10 percent by mass of solid content of the glue.

Dimensions

The dimensions of plywood boards shall be as stated in Para 9.2.10.5.

The Thickness of any board shall not exceed the number of pieces multiplied by 2.5mm.The Two face veneers in finished board shall be of the same nominal thickness.

Tolerances:

The following tolerances in the nominal size of finished boards shall be permitted.
Dimension Nominal Size Tolerance
Length Upto 120 cm. + 3mm
Above120 cm. + 6 mm
Width upto 90 cm. + 3mm
Above 90 cm + 6mm
Thickness Upto 4 mm + 10 percent
Above 4 mm + 5 percent

Sampling:

The method of drawing representative samples and criteria for conformity shall be prescribed in IS 7638.

Tests:

Test pieces cut from each a board as specified at Para 9.2.11.5 shall be subjected to following tests:

(a) Moisture content
(b) Glue adhesive in dry state
(c) Water resistance test
(d) Tensile strength
(e) Mycological test
(f) Retention of Preservative.

These tests shall be carried out as specified in IS 710.

Marking:

Each plywood board shall be legibly and indelibly marked or stamped with following particulars along with such other marks as the purchaser may stipulate at the time placing order.

(a) Manufacture's name, initials of recognized trade mark, if any.
(b) Year of manufacturing.
(c) Abbreviation indicating the species of timber used in each ply as indicated in col.3 of Table-1 of 2 if IS 710.
(d) Batch number

BIS Certification Marking: The plywood board may also be marked with the standard mark, governed by the BIS Act, 1986.

Tender Sample, Inspection and Acceptance: Three samples each not less than 90x60 mm in size shall be submitted by the supplier, and these samples, if the tender is accepted shall constitute the standard as regards the type of timber, quality and finish.

Fire Retardant Plywood

Fire retardant plywood shall generally conform to IS 5509. The plywood to be given fire retardant treatment shall conform to BWR grade of IS 303 to be able to stand pressure impregnation.

Plywood for treatment shall be clean, free from oil or dirt patches on the surface and at a moisture content not exceeding 15 percent. In case of veneered decorative plywood care shall be taken that colour of the solution does not spoil to decorative surface. For Eco-mark the plywood shall conform to the requirements of Eco-mark specified in IS 303.

Fire Retardant Treatment: This shall be either pressure impregnation or soaking treatment as per IS 5509.

Choice of Treatment: The choice of treatment may be left to the manufacturer to plywood as per fire resistant requirement prescribed in IS5509.The purchaser should however, specify whether plywood is to be treated with fire retardants only or with fire retardants and preservatives. The recommended retention of fire retardant chemicals for different hazards like interior or exterior use not subject to leaching by rain and water is of the order of 50kg/m3.

Conditioning after Treatment: The plywood after treatment shall be conditioned to suitable equilibrium moisture content of not more the 20 percent.

Dimension and Tolerances shall conform to IS 2049. The tolerance of thickness shall conform to IS 303.

Sampling: The method of drawing representative sample and the criteria of conformity shall be as prescribed in IS 7638.

Test Specimen and Number of Tests: From each of fire retardant plywood selected as above Para 9.2.12.6, following test specimens shall be cut from portions 150mm away from the edges for tests specified as under:-

(a) *For Flammability:* Six test specimens 125 mm x 125 mm in full thickness of material from each sample.

(b) *For flame Penetration :*There test specimens 125 mm x125mm in full thickness of material from each sample.

(c) *For Rate of Burning* : Three test specimen 100 mm x 12.5 in full thickness of material from each sample.

Test Requirements and Other Tests

(i) *Moisture Content* : Shall not exceed 20%

(ii) *Flammability*: When tested as per IS 1734, time taken for second ignition shall not be less than 30 minutes.

(iii) *Flame Penetration*: When tested as per IS 1734,time taken for flame penetration shall not be less than 15 minutes for every 6 mm thickness.

(iv) *Rate of Burning*: When tested as per IS 1734,the time taken to lose weight from 30 percent to 70 percent shall not be less than 20 minutes.

Other conditions for execution of work order

1. The detailed specifications given hereafter are for the items of works described in the Bill Of Quantities (BOQ) attached herein, and shall be guidance for proper execution of work to the required standards.

2. It may also be noted that the specification are of generalized nature and these shall be read in conjunction with the description of item in the bill of quantities and drawings.

3. The work also includes all minor details of alterations in construction which are obviously and fairly intended and which may not have been referred to in these documents but are essential for the entire completion in accordance with standard engineering practice.

4. The Engineer and the Employer shall be the sole deciding authority as to the meaning; interpretations and implication for various provisions of the specifications and his decision in writing shall be final and binding on all concerned.

5. In case any difference or discrepancy between the tender specifications and the description in the bill of quantities, the bill of quantities shall take precedence.

6. In case any difference or discrepancy between the tender specifications and the tender drawing, the tender specification shall take precedence.

7. Unless specifically otherwise mentioned, all the applicable latest codes and standards published by the Bureau of Indian Standards and all other standards, shall govern in all respect of design, workmanship quality ,properties of materials, method of testing and method of measurements.

8. These specification shall be read in conjunction with the latest, IS specification In case this specification are found wanting in any way the relevant C.P.W.D. Specifications shall apply.

9. The whole of the materials employed in connection with the permanent work, shall be new and the best of its kind. All materials shall be in accordance with these specifications and shall be as approved by the Engineer & Employer.

10. The contractors/supplier must visit the site to satisfy themselves about the local conditions and site restrictions, physical/administrative/access etc. if any, before commencement, Failure to visit the site shall not, under any circumstances whatsoever, at a later date, constitute a ground for mitigation of the terms of this contract.

11. This is an item-rate contract. The item-rate quoted is deemed to be an all inclusive rate, including all material, labour, cartage, hardware, accessories, tools & plants, scaffoldings and strutting, overheads, supervision, traveling and co-ordination, fabrications, profits, existing government taxes and levies including VAT, service tax etc. needed for the successful completion of the works.

12. The contractor/supplier shall make his own arrangements for the engagement of the labour, locally or otherwise. Nothing will be paid for the transport, housing, feeding, etc. of the labour. A list of workers employed shall be made to execute the works and prior permission will be required from Security Incharge to enter the premises after office hours and on holidays.

13. The quote shall be valid till the completion of work.

14. The Contractor/supplier will be responsible for the due compliance of the provisions of the various labour laws (Central), whichever are applicable to workmen, deployed by the contractor party in relation with the subject services.

15. At the time of handing over, a defect list, if any, shall be prepared and the same rectified by the contractor for which a mutually agreeable time shall be fixed. (Not more than 15 days). In case the contractor fails to complete the same within the stipulated time, the handing over date shall be deemed to be the date on which the total works are complete.

16. The contractor/supplier or his authorized agent should be available on the site for the complete duration of the project, and should be capable of implementing instructions and executing on behalf of the contractor/supplier.

17. In case there is any extra work beyond the final amount, written permission prior to its execution shall be taken.

18. The tenderer shall start the work within a period of 15 days from the date of issue of work order. The work will be completed within 60 days. However, if the progress of the works does not match the quality required by Employer, in terms of material or workmanship, or in progress against time, the Employer reserves the right to terminate the contract at any time and / or get it executed by some other party or get it executed in part / balance on the contractor's cost.

19. In case, the work is not started even after the grant of extended period, if any, the work order placed will be cancelled and the security money will be forfeited. In case the work is not completed within stipulated period a penalty @2% of the work order will be imposed on the firm, after a period of 30 days. The penalty charges may be increased to 4% of the work order for further delay by 30 days another.

LIST OF APPROVED MAKES

S.No.	Material	Make
1	7160 1976 BWP Marine plywood / Flexi ply /Commercial plywood	Century, Mayur, Greenply, Anchor, Archid, Kenwood, Western India.
2	Block board	Greenply, Century, Duro, National, Puma, Mayur, Bhutan tuff
3	Laminate	Century, Merino, Formica/Sunmica, Samrat,ASIS
4	Hardwares	Doorset, Haffle, Hettich, Dorma, Dline, Ozone
5	Enamel Paint	Asian Paints, Nerolac, Berger
6	Metal screw	Nettle fold, GKW
7	S. S. Screws	Kundon / Atual / Arrow
8	Sealant/ additive	Pidilite / Fosroc / Asian Panit
9	Fire Retardant Paint	Noble paints, Pragati paints, Aneetuff paints
10	MS Angle & Strip	SAIL, Tata, Bhushan, Steel

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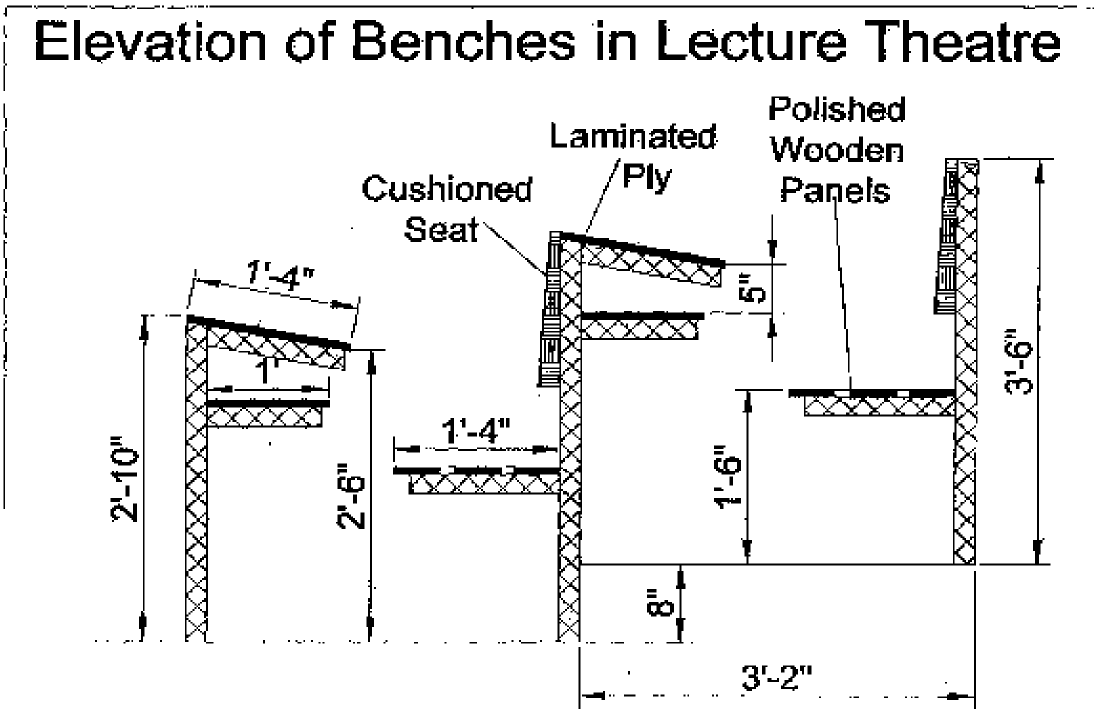
FINANCIAL BID

BOQ FOR WIRITING BENCHES-CUM-SEATS FOR LECTURE THEATRES

Sr.No.	Particulars	QTY	Rate per Chair	Amount
1	BASE FRAMES	470		
	Providing & fixing of Benches for Lecture Theatres, made of MS Angle frames of size 50x50x6 mm, made of approved make and type of iron, to be fixed with anchor fasters in ground. MS frames should be coating with one coat of metal surfacer and minimum two thin layers of ESPA Paint, proper thinner should be used for dilution of paint.			
2	DESK			
	BWR Grade 19mm thick ply of approved make to be fixed on the desk. Desk should be comprising of two levels, one should for writing/reading purpose and lower portion for keeping books. It should be laminated with 1mm thick mica of approved shade. Laminate should strictly be pasted with approved make and standard of adhesive. Teak wood liping of size 19x6 mm should be fixed over all the edges of the ply before pasting laminate. Anti-termite treatment and enamel paint should be applied to the ply wherever it is bare.			
3	SEAT			
	Seat of the bench should be fitted with teak wood frames as per size and drawing, to be fixed, duly polished with approved shade and type. Teak wood to be used should be as per detailed specification of all tests and measures.			
4	BACK			
	Cushioned back, as per design, made of 19mm ply of approved make, quilted with high density (40D) PU Foam(Make:Sleepwell), cladded with leatherite upholstery, basic price of the upholstery should not be less than Rs.300/-			
	TOTAL			
	VAT @ ______			
	Other Taxes, if any			
	GRAND TOTAL			

Name and address of firm with telephone numbers

Annex- 'A'


Elevation of Benches in Lecture Theatre
Polished
Wooden
Panels
Laminated
Ply
Cushioned
Seat
1'-4"
1'
1'-4"
5"
2'-10"
2'-6"
1'-6"
3'-6"
8"
3'-2"