

INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH-THIRUVANANTHAPURAM
[IISER-TVM]

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KERALA, INDIA.

IISER/PUR/PT/07/10

04th August 2010

INVITATION TO TENDER

Dear Sirs,

SUB: LAB FURNITURE.

We invite Sealed Tenders for the above Equipment as per 'Schedule' attached.

Please quote your lowest rate and shortest delivery period. "Instructions to Tenderers" [Imports & Indigenous] attached are to be followed strictly.

YOUR OFFER IN SEALED COVER SUPERSCRIBING TENDER NUMBER AND DUE DATE SHALL REACH US ON OR BEFORE 25TH AUGUST 2010 (3 PM). LATE AND DELAYED OFFERS WILL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.

Thanking You,

Yours Faithfully


Consultant
(Purchase & Stores)

IISER-TVM
PUBLIC TENDER NO. IISER/PUR/PT/07/10

SCHEDULE

1. TENDER No. IISER/PUR/727/10

PHYSICS LAB FURNITURE.

PHYSICS RESEARCH LABS (ROOMS 317 & 321)

- A. Wall bench (5.5 m x 0.75 m) with a big sink at one of the ends (with two water taps) and with many power plugs (4 plugs at every 1 m distance). Storage shelves below the benches. Two tier reagent rack (width 30 cm) on top.
- Sink size = 0.8 m (L) x 0.5 m (w) x 0.45m (D)
- B. Wall bench (5m x 0.75 m) with storage shelves below the benches, with many power plugs (4 plugs at every 1 m distance) and with overhead cabinet (0.3 m (D) x 0.6m (H)) with panel doors.
- C. Wall bench (5m x 0.75 m) with storage shelves below the benches and with many power plugs (4 plugs at every 1 m distance).
- D. Wall bench (3m x 0.75 m) with storage shelves below the benches, with many power plugs (4 plugs at every 1 m distance) and with overhead cabinet with panel doors.
- E. Wall bench (3m x 0.75 m) with storage shelves below the benches.
- F. Wall bench (2.1m x 0.5 m) with storage shelves below the benches and with overhead cabinet with panel doors.
- G. Wall bench (1.2m x 0.4 m) with storage shelves below the benches
- H. Wall bench (1.8m x 0.75 m) with storage shelves below the benches and with overhead cabinet with panel doors.
- I. Three overhead cabinets
- i. (3m (L) x 0.3 m (D) x 0.6m (H))
- ii. (1.8m (L) x 0.3 m (D) x 0.6m (H))
- iii. (2.4m (L) x 0.3 m (D) x 0.6m (H))
- J. Two fume hoods of internal area 1.2m (L) x 0.75 m (D) each. Control on side panel. Gas outlets inlets, water inlets outlets, vaccum inlets, many Plug points (at least 10 power outlets per hood). One Drip cup. Lights. Airflow monitor. Reagent rack at the back. Stainless steel

scaffold inside the hood. Cabinets below the hood should be connected to the exhaust pump so that chemicals can be stored.

- K. A vibration free table to keep two balances
- L. Two chemical storage cabinets of size 800x400x1500MM (LxDxH). It should be chemical resistant. No metallic parts (including hinges) should be used. It should be connected to exhaust.
- M. An eye-wash cum emergency shower

General instructions:

SPECIFICATION FOR LABORATORY FURNITURE

Worktop:- Should be a Solid Laboratory Bench Panel. The decorative surface should have a scratch resistance of 4 N or more, 24 hours chemical resistance against concentrated acids such as sulfuric acid and dyes (data should be provided). The panel core to be based on cellulose fibers reinforced with resins to give a black edge. The thickness should be at least 1.6cm. The physical properties of the material such as Density, Tensile Strength, Flexural strength and Elastic modulus should be mentioned with proof. All edges should be fabricated and rounded for smooth finish. Chemical resistance data sheet and original catalogue from the manufacturer should be submitted. Also samples of the worktop should be submitted along with the tender. The color of the worktop should be black.

The worktop panel shall be large size with minimum joints.

Frame Work:- The **H** frame should be made of not less than 30x30 mm Mild steel box sections with 2mm thickness, de-greased and powder coated. Adjustable leveling jacks of tough plastic / nylon should be provided for each leg of the support of the frame. Front and back frames should be provided for connecting all the **H** frames, supporting cabinets and complete bench.

UNDERBENCH CABINETS :-

Door/Drawer Front:- should be made of 18mm BWP plywood laminated with 0.9 mm thick melamine on both sides. The lamination shall be done with Hot press with minimum of 90 tones pressure. All exposed edges should be lipped with PVC lipping **not less than 3mm** to protect from impacts, moisture and insects. The Lipping should be machine applied with hot melt glue at a temperature of 205 degree Celsius or above.

The Melamine Laminate should confirm with BS, NEMA & BIS Standards.

The doors and drawers shall have **full length grab rail** that is not projecting outside from the door front surface. The grab rails should be made of Aluminum and powder coated.

Cabinet Body – should be made of 18 mm thick BWP plywood laminated with 0.7mm thick melamine on both the sides. The lamination should be done with Hot press with minimum of 90 tones pressure. All exposed edges should be lipped with PVC lipping not less than 0.5mm to protect from moisture and insects. The Lipping should be machine applied with hot melt glue at a temperature of 205 degree Celsius or above.

The cabinet body should be made as permanent casework without any screws and knock-down/minifix fittings. Inside of the cabinet body should not have any gaps or such places for dust accumulation. All joints should be sealed and it should be easily cleanable. All adjustable shelves should be made with the same material as above.

Knee space Panel: should be made of 9mm BWP plywood laminated with 0.7mm thick melamine on both sides. The lamination should be done with Hot press with minimum of 90 tones pressure. All exposed edges should be lipped with PVC lipping not less than 0.5mm to protect from moisture and insects. The Lipping should be machine applied with hot melt glue at a temperature of 205 degree Celsius or above

Hinges for the doors should be without rust, nickel coated heavy duty, self closing, and allowing opening up to more than 160 degree. The hinges should be adjustable in all three directions for perfect finish and corrections.

Bench mounted Rack- The bench mounted rack should be made of 30x30x2mm thick mild steel box sections, powder coated. The surface of the rack should be made of wired glass.

SPECIFICATION FOR FUME CUPBOARDS

Fume Cupboards should be in 5 parts – Frame work, Under bench cabinet, Worktop, Extraction chamber, Blower


- 1a **FC- Frame work:** Heave duty frame work with the sections of 80x40x3mm thick mild steel, degreased and galvanized. Epoxy powder coating should be provided. Adjustable leveling jacks should be provided for each leg of the support of the frame. Front and back frames should be provided for supporting cabinets and complete bench.
- 1b **FC- Under bench cabinets:** Under bench cabinets with adjustable shelves should be made of at least 18mm thick melamine laminated plywood. The lamination should be done with hotpress to prevent delamination under any circumstance. All exposed edges should be lipped with PVC edging with Hotmelt glue at 205 degree celcius or above.
- 1c. **FC- Worktop:** worktop should be made of 19 mm thick Modified Solid Epoxy resin. A drip-cup should be provided at the corner to drain any liquid spillage. The drip cup should be chemical resistant and molded as single piece in Polypropylene.
- 1d. **FC- Extraction chamber:** should have melamine laminated body. Inside and Baffles should be made with chemical resistant material to protect from fumes and the Baffles should conform with BS EN 438, NEMA LD-3 & ISO 4586. The front sash should be vertically sliding smoothly and made of 6mm thick toughened glass, with counter weight. A fluorescent light should be provided at the top in a separate sealed chamber covered with wired glass for safety purposes.
- 1e. FC- The extraction chamber should house a service box at the bottom with **remote control valve** for LPG and Cold water. A drip cup should be provided and connected to drain. 1 nos 5/15 AMP socket and switches for blower & light should be provided.

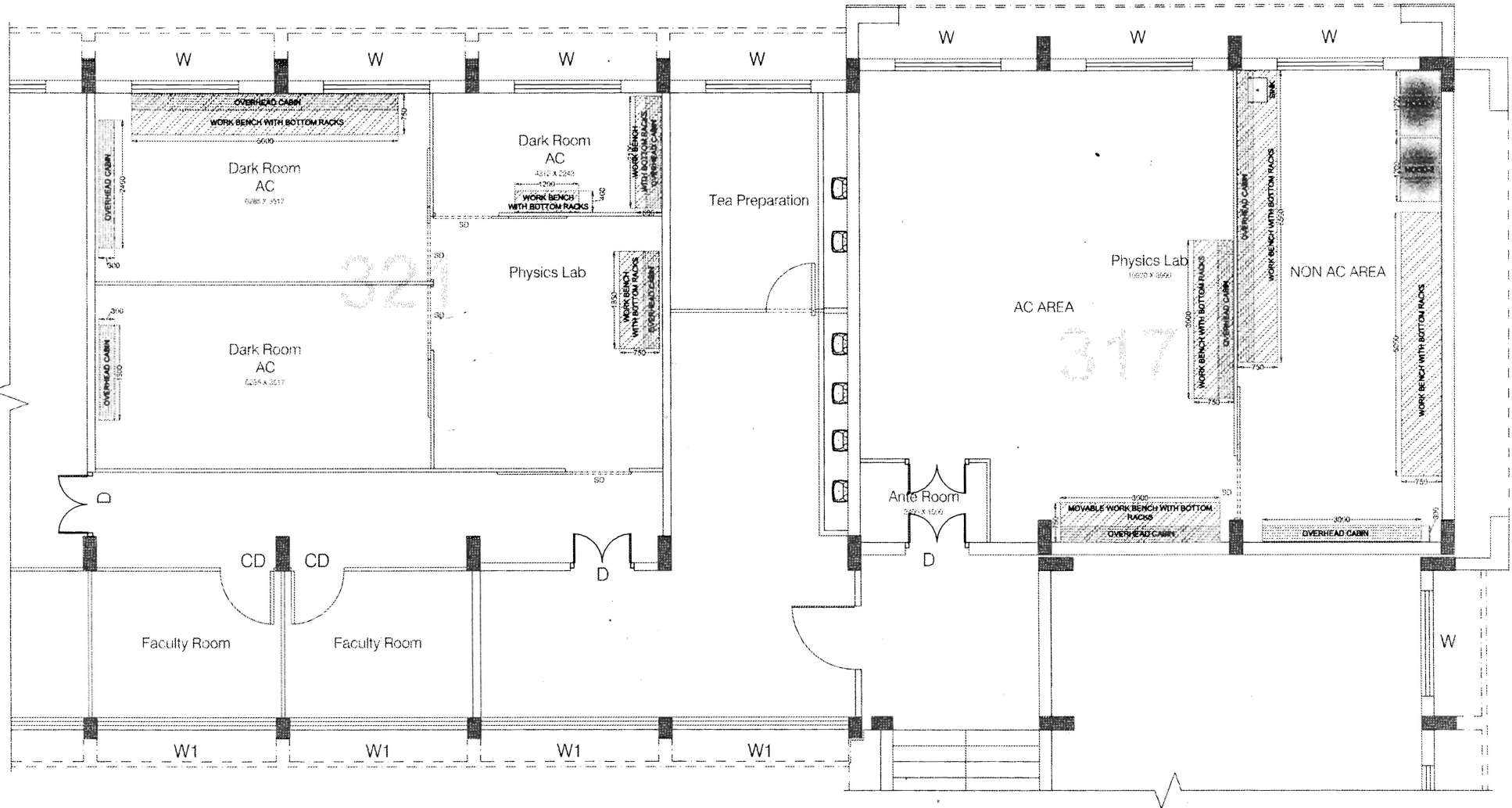
- 1f. **FC- Blower:** The housing should be strong high density UV treated Polypropylene. For maximum corrosion resistance. The impeller should be completely made of Polypropylene with noise level less than 62 dB. The motor should be three phase, 380/440V and 1450 rpm. All exposed part of the blower is made of polypropylene to protect from chemicals.

All wall benches and island benches should have service points

NOTE:

1. **LEAFLET/CATALOGUE OF THE ITEMS QUOTED SHALL ACCOMPANY THE QUOTATION WITHOUT FAIL.**
2. **ALONG WITH THE TECHNICAL DETAILS PROVIDE A TABULAR COLUMN INDICATING WHETHER YOUR OFFER MEET THE SPECIFICATIONS, BY INDICATING 'YES' OR 'NO'. IF 'YES' SUPPORT THE CLAIM WITH PROOF.**
3. **NAMES OF INSTITUTES WITH CONTACT PERSON AND TELEPHONE/ EMAIL WHERE SIMILAR EQUIPMENT SUPPLIED BY YOU IN INDIA [PREFERABLY SOUTH] SHALL BE MENTIONED IN THE BID.**
4. **BASED ON OUR OUTLINE DRAWINGS ATTACHED, DETAILED DRAWINGS SHALL BE PREPARED AND SUBMITTED ALONG WITH THE OFFER. OTHERWISE THE OFFER MAY NOT BE CONSIDERED.**
5. **THE LAB SHALL BE DISMANTLED FROM THE TRANSIT CAMPUS AND RE-INSTALL IT IN OUR PERMANENT CAMPUS AT VITHURA WHEN IT IS READY (AFTER 2-3 YEARS). THIS UNDERTAKING HAS TO BE SUBMITTED ALONG WITH THE OFFER.**


CONSULTANT
[PURCHASE & STORES]



[Handwritten Signature]
 07/07/10

PHYSICS RESEARCH LABORATORY
 ROOM No. 317 & 321

DRAWN :	CHECKED:	APPROVED:
DWG No.:		DATE :
SCALE : 1:75	<i>All Dimensions are in mm</i>	

IISER INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM
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IISER-TVM
INSTRUCTION TO TENDERERS [IMPORTS]:

1. **PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
2. **AGENT & AGENCY COMMISSION:** In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. In case Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
3. **LEAFLET/CATALOGUE:** Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
4. **MODE OF DESPATCH:** Tenderer shall indicate the mode of dispatch (i.e., Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
5. **COUNTRY OF ORIGIN:** Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
6. **INSURANCE:** If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
7. **DELIVERY/SHIPMENT:** The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to in case of placing order on the Tenderer.
8. **MODE AND TERMS OF PAYMENT:** Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT.
9. **WARRANTY:** Period of warranty and conditions shall be clearly mentioned in the Tender.
10. **GENERAL:** The Tenderer shall also be complied with the following:
 - a. Mention your Banker's name and address.
 - b. Show approximate net and gross weight and dimensions of packages/cases.
 - c. Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
 - d. Details of any technical service, if required for erection assembly, commissioning and demonstration.
 - e. Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
 - f. The offer is valid for a minimum period of 90 days from the due date of opening of the tender.
 - g. Samples, if called for, will be sent free of all charges.
 - h. Late tenders and Delayed will not be considered.
 - i. Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
 - j. The authority of person signing the tender, if called for, shall be produced.
 - k. The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.


CONSULTANT
[PURCHASE & STORES]

IISER – TVM
INSTRUCTIONS TO TENDERERS [INDIGENOUS].

1. Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
2. Late tender and Delayed Tenders will not be considered under any circumstances.
3. Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
4. (a). Your quotation should be valid for a minimum period of 60 days from the date of opening of the Tender. Quotation with firm prices will be preferred.
(b). Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
5. (a) Preference will be given to those tenders offering supplies from ready stocks and on the basis of delivery at IISER site.
(b) Preference will also be given to those who agree our payment terms of within 30 days of receipt and acceptance of the item at our site.
6. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
(b) Samples, if called for, should be submitted free of all charges by the tenderer and the IISER shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to take back the samples at his own expense.
(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
(d) **Specifications:** Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
7. IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
8. Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quote d in words shall prevail.
9. The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
10. The authority of the person signing the tender, if called for, should be produced.
11. The purchaser reserve the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.
12. IISER being a Govt of India Educational and Research Institute, is exempted from payment of Excise Duty and Customs Duty under Notification No. 51/96- Customs dated 23rd July 2009. Also, we can issue Form16 as per VAT Rules.
13. There is no EMD or Tender Cost.


CONSULTANT
(PURCHASE & STORES)