

TENDER NOTICE
TENDER / UCC / DST - WOS - A / PHY / Julie - RRP

No. Department: **Physics, Union Christian College, Aluva-2**

Sealed tenders are invited to purchase the following equipment to the Thin film Research lab from the DST / WOS-A Project – Department of Physics for the academic year 2018-2019.

No:	Equipments	Specification
1.	Gas sensing equipment	<p>Gas sensing equipment with 2 probe connections, Heater of 300 degree, with temperature controller.</p> <p>Equipment made with Stainless steel chamber of 160 mm diameter and 250 mm length, O rings for vacuum sealing, K 25 Vacuum connection, air inlet, and sample holder.</p> <p>2) Rotary vacuum pump 100 LPM with 1 meter stainless Steel Flexible hose, Vacuum valve 1 No, And Pirani gauge 1 No</p>
2.	Gas sensing accessories	<p>Accessories for gas sensing like two stage stainless steel regulator (100ppm) for gases like NO₂, CO, LPG, Acetone, Ethanol , Vacuum needle valve, gas cylinders (NO₂, CO, LPG, Acetone, Ethanol)</p>
3.	Mass Flow Controller and a Variable power supply to be used along with MFC.	<p>Digital Mass Flow Controller (100SCCM-D/5M, 5IN)</p> <p>Should simultaneously display Mass Flow, Volumetric Flow, Pressure and Temperature</p> <p>Accuracy - \pm (0.8% of Reading + 0.2% of Full Scale)</p> <p>Repeatability- \pm 0.5% Full Scale</p> <p>Maximum Controllable Flow Rate- 102.4% Full Scale</p> <p>Typical Response Time - 100 ms</p> <p>Warm-up Time - < 1 Second</p> <p>Operating Temperature Range - -10 to +50 °Celsius</p>

		<p>Humidity Range (Non-Condensing) 0 to 100%</p> <p>Maximum Internal Pressure (Static)- 145 psig</p> <p>Digital Input/ OutputSignal - RS-232/RS-485 Serial with 9-pin D-sub (DB9)</p> <p>Analog Input/ OutputSignal- 0-5Vdc/1-5Vdc/0-10Vdc/4-20mA</p> <p>Working Supply Voltage- 12 to 30 Vdc (15-30V dc for 4-20 mA outputs)</p> <p>Universal 100-240V AC, 50 Hz to 24 Volt/ 250mA (max.) DC Power Supply Adapter suitable for mass flow controller</p>
4.	Programmable DC power supply with RS232 interface	<p>Programmable DC power supply with (0- 120V) – 5A- 600W</p> <p>95 to 264V AC, 45 to 63Hz, 1 Phase</p> <p>Input power factor : 0.99 typical @ full Load,</p> <p>Switching frequency : 45KHz</p> <p>Time delay : 7 sec.</p> <p>Operating temperature : 0 to 50°C</p>
5.	Computer	<p>Intel Core i3 , 4GB DDR4RAM, 1Tb Hard disk, Keyboard, DVD –RW, Optical scroll mouse, Ethernet Card, 18.5 LED Screen, Wifi</p> <p>Minimum 3 years warranty</p>
6.	Silica Furnace fitted with vacuum pump , high temperature Muffle Furnace and a controller for Muffle Furnace	<p>Quartz glass tube of 8 cm diameter 30 cm length supplied with end cap and tube holder in it.</p> <p>High temperature Muffle Furnace (10 x 10 x 22 cm, 1.5kW) with outer body made of M.S powder coated, Ceramic muffle insulated with ceramic wool .</p>

		<p>Heating element Kanthal A1 grade with maximum temperature 1150°C, working temperature 1100°C.</p> <p>Temperature Controller for Muffle Furnance with micro-processor programmable controller with timer- With step for soak and ramp</p> <p>Oil free vacuum pump piston type</p>
7	Desiccator with vacuum pump	<p>Glass Desiccator n- vacuum with internal diameter of 200mm</p> <p>Vaccum Pump</p>

The envelopes containing the tender should bear the superscription "Tender, Purchase of Equipment-DST / WOS-A Project, Department of Physics" and should be addressed to THE PRINCIPAL, UNION CHRISTIAN COLLEGE, ALUVA 2.

The tenderers should keep the rates of items firm at least for a period of four months.

Last date for receipt of tenders will be **22.11.2018, 2.00 pm**. Late tenders will not be accepted.

The tender forms with detailed specifications and terms and conditions can be downloaded from the college website: www.uccollege.edu.in. Tenderers must submit a demand draft worth Rs.1120/- (Inclusive of GST) favouring "Principal, Union Christian College, Aluva", payable at Aluva.

Place: Aluva
Date: 31.10.2018

5X
THE PRINCIPAL
UNION CHRISTIAN COLLEGE
ALUVA-2



TENDER FORMAT

<i>TENDER /UCC/DST-WOS-A /PHY /Julie - RRP</i>	
Tender No..... for Equipment - DST/ WOS-A Project, Department of Physics Union Christian College, Aluva-2	
Due date and time for receipt of tender	22-11-2018 2.00 pm
Date and time for opening of tender	22-11-2018 2.15 pm
Date up to which the rates are to be firm	Up to four months
Price of tender form	Rs.1120/- /(Inclusive of GST)
Address of Officer from whom tender forms are to be obtained and to whom tenders are to be sent:	THE PRINCIPAL, UNION CHRISTIAN COLLEGE, ALUVA 2

Name of Office: Union Christian College
Station: Aluva.
Date: 31-10-2018

(Designation of Purchasing Officer)

PRINCIPAL,
UNION CHRISTIAN COLLEGE,
ALUVA 2

SCHEDULE OF ITEMS

Sl. No	Item	Specifications(Model and Make)	Unit	Rate (Rs.Ps)	Remarks
1	2	3	4	5	6

Period within which items should be delivered: One month after the receipt of order

Other special conditions: Price should be inclusive of taxes.

Place

Name & Address of Tenderer:

Date

Signature:

TERMS AND CONDITIONS

1. The latest model shall be quoted and certified.
2. The quoted price should include cost of the instrument, freight, insurance, customs duty, clearance charges, entry tax (if applicable at the time of installation), installation and commissioning.
3. Payment terms: 75% of the total value will be released on presentation of dispatch documents through bank. Balance 25% after successful commissioning and acceptance by the end user.
4. Customs duty percentage and the CIF price on which it is based should be clearly specified in the tender and if the customs duty exemption certificate is secured the corresponding amount will be deducted from the bill.
5. The tenderers should verify and make sure that the claims made by them against items towards Sales tax, customs duty, excise duty etc., are not more than those permissible under the provisions of the laws in force, and that they will refund any excess claims admitted in this respect.
6. The offers should be kept open for a period of four months from the date of opening tenders. Acceptance of the offers will be intimated to the successful tenderers within that period. Tenderers will however, be given the option to keep their offers open for a further agreed period if there be any delay in intimating the acceptance.
7. The installation should be done by the supplier free of cost .
8. Delivery period: The equipment and its accessories should be completely supplied, installed and commissioned to the satisfaction of the Department of Physics within 45 days from the date of supply order or date of L/C whichever is later.
9. Warranty: The entire equipment and its accessories should have comprehensive warranty of two years from the date of acceptance by the end user. If any spares are to be imported during warranty period, the cost, insurance, freight, customs duty and clearance charges should be given by the vendor.
10. The rates of terms of AMC (both comprehensive and labour) for a minimum period of three years after the warranty period shall be clearly specified. Both comprehensive and labour AMC amounts will be taken into consideration for final selection.
11. During warranty and AMC period, the vendor shall give an uptime guarantee of 95% or more.
12. Training: In order to fully and optimally utilize the equipment, necessary on site training should be given to the Physics department staff free of cost
13. List of installations in Kerala over the past three years shall be provided.
14. Number of trained engineers available in Kerala and nearest service station shall be mentioned.
15. Wherever options are called for in respect of specifications, the tenderer should induct all such options.
16. We are exempted (regd. with DSIR) from payment of customs and excise duty for our procurement and hence prices quoted should be exclusive of these. Prices inclusive of ST and other taxes and installation charges, if any, may be indicated. We shall provide the necessary forms and certificates as required.
17. The exact specifications, details of make, model number, name of manufacturer etc., of the equipment offered must be clearly specified. Copies of detailed technical literature and illustrated brochures of the units quoted are to be included along with the offer. Offers without these are liable to be rejected. List of users giving the exact address of the contact persons and the model number of the units available at these locations have to be provided.
18. Instrument operating manuals have to be provided along with the supply.
19. Evidence of exclusive/authorized distributorship from foreign principals should be

20. Period of firmness of the quoted prices should be clearly stated in the offer.
21. The undersigned reserves the authority to accept or reject any or all of the offers for any particular item without assigning any reason whatsoever.
22. All the rules and regulation applicable to Government tenders will be applicable to this tender also.
23. The tenderer must give an agreement on a stamp paper worth Rs.200/-.
24. The following declaration should be given by the tenderer while submitting the tender:

Declaration

(a) I/we have downloaded the tender form from the internet site www.uccollege.edu.in and I/ we have not tampered / modified the tender forms in any manner. In case, if the same is found to be tampered / modified I/we understand that my/our tender will be summarily rejected and full earnest money deposit will be forfeited and the contract will be terminated at my/ our risk and cost.

(b) I/we am/are submitting a demand draft no. _____ dated _____ issued by _____ for Rs. _____ towards the cost of tender form.

Signature of Tenderer:

Date:

Address:

(Seal)