



FAKIR MOHAN UNIVERSITY

Vyasa Vihar, Balasore - 756019, Odisha, India, Web : www.fmuniversity.nic.in

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TENDER CALL NOTICE

Sealed quotations are invited from interested manufacturers/ Distributors or Dealers/ suppliers/ reputed firms with valid GSTIN, PAN for supply and installation of minor equipment and chemicals for UGC Startup Grant project. **The number of items and their detail specifications are available in the Fakir Mohan University website www.fmuniversity.nic.in.** The quotations complete in all respect should reach to Dr. Rajib Biswal (PI), Assistant Professor, Department of Applied Physics and Ballistics, F M University, Old Campus, Balasore 756019 by 3.00 PM on date 05.02.2020 through speed post/ registered Post and shall be opened on the date 05.02.2020 at 3.00 PM in the office of the Registrar, New Campus, F. M. University, Balasore. The authority reserves the right to cancel any or all tenders without assigning any reason thereof.

Rajib Biswal
18.01.20

(Principal Investigator)

**List of non-recurring items to be purchased under UGC Startup Grant
(Minor equipment and Chemicals)**

I. List of minor equipment			
Sl. No	Name of the Item	Specifications	Quantity
1.	Hydraulic Press for pellet compaction with die set	<p>Capacity of the press:15 tons Capacity of the cylinder: 15 Tons (hydraulic power unit) Model : Table top with safety screen Operation : Manual Compaction Pressure : Uniaxial Type Usage : Powder pressing Die Set: For 10 mm size circular. Tungsten Carbide Line Dies, hardened and can be easily dismantled for cleaning purposes. Warranty: \geq One Year</p>	01
2.	Hydrothermal Autoclave Reactor With Teflon Chamber	<p>Make: Techinstro or Ants Lab Capacity of vessel : 250 ml Vessel: Thread Type Shell body type Construction : high quality stainless steel Liner materials : PTFE Maximum working Temperature up to : 220 °C Working Pressure : 3 Mpa Rate of heating and Cooling Temp. : \leq 5 °C/ min</p>	01
3.	Complete Set for Dielectric testing : LCR Meter, sample holder and Temperature test up to 600 °C	<p><u>Precession LCR meter</u> Make & Model: HIOKI Japan (Model- IM3536) Frequency Range : Lower limit : 4Hz Upper limit : 8 MHz Standard Accessories: Main Unit, Instruction Manual, AC Power Cord, Application Software , four wire test (four terminal probe for Dc to 8 MHz frequency range), computer interface cable , other accessories Accuracy : \leq \pm0.05% in impedance, \pm0.05 degree in phase Measurement parameters : Z,Y, θ, X, G,B,Q, dc (DC resistance),Rs (ESR), Rp, Ls, Lp,Cs, Cp, D (tanδ), σ, ϵ Warranty: \geq Three Year <u>High Temperature Setup</u> Sample holder: Stainless steel type or if any for solid bulk samples (pellets) and thin films (upto 600 °C) Furnace : Suitable Research Grade Furnace, Temperature Range RT –600°C or higher Temperature test : upto 600 °C Furnace Type : Pot type/ Vertical Temperature controlled : PID control Interface facility : USB/RS232 Connecting cables Power Supply: Indian Standard</p>	01

		Warranty: \geq One Year Note : Installation and demonstration for at least one standard sample in bulk (pellet) and thin film with repetition data up to 600 °C.	
4	Silver conductive paste	Conducting silver paste Uses: for high temperature measurement	01 25 gram
5	Inverter with Battery and complete installation	Inverter: 2KVA, Pure Sine wave Battery type: Tall Tubular (150 AH), 2 in nos (12v x2=24V) Trolley, One phase input Complete Installation Warranty: \geq Two Year	01

List of Chemicals				
Sl.NO	CHEMICAL NAME	CATALOGE NO	COMPANY NAME	QUANTITY
1	Praseodymium(III) nitrate hexahydrate	205133	Merck	10g
2	Niobium Pentoxide	11365	Alfa Aesar	100gm/10g
3	Neodymium(III) Nitrate hexahydrate	289175	Merck	25 g
4	Europium nitrate hydrate	254061	Merck	1 g
5	Ethanol	100983	Merck	500 ml
10	Zinc nitrate hexahydrate	228737	Merck	100g
11	Zinc acetate dihydrate	383058	Merck	500g
12	Ascorbic acid	A7506	Merck	100g

TERMS AND CONDITIONS

1. Last date and time of receipt of the Tenders: **05.02.2020 by 3.00 PM.**
2. Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University's Purchase Committee, reserves the right to select any bid / equipment under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support, additional warranty, offer of additional / special features, Compatibility with the existing System, Training, etc.

3. Sealed Tender should be submitted to

To

Dr. Rajib Biswal (PI),
Assistant Professor,
Department of Applied Physics and Ballistics,
F M University, Old Campus,
Balasore 756019

4. Quoting the Core price & Tax, Duties, Discount etc. The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.
5. **Eligibility:** The firm must have the requisite domain expertise with regard to supply, installation and post-sale service of the items they are quoting. The firm should have been in existence for at least five years as on the date of this tender and must have executed at least three orders for this kind of equipment during the last three years.
6. **Warranty:** The material covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of at least 12 to 36 months from the date of putting the system into operation at the F M University. If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
7. The information pertaining to infra-structural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided by the bidder, at least 10 days in advance of the installation to be commenced if purchase order is issued. All drawing for electrical connections, electrical safety items piping work etc. must be provided in detail.
8. Complete technical specifications and literature, including process flow, to be included with the quotation. Manufacturers of various major parts/equipment must be mentioned explicitly.
9. A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
10. A recent customer list (within last five years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
11. If the bidder is an authorized representative in India, they are requested to inform their technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.
12. All equipment must operate at 230V/50 Hz single phase.
13. The offers will not be considered if received after the bid closing time & date.
14. The offers received through telex / tele-fax / e-mail will not be accepted by the University under any circumstances.
15. The University shall not be responsible for any delay / loss or non-receipt of tenders by post .
16. No unsolicited correspondence shall be entertained after the submission of the offer.
17. If an order is placed with the firm, the purchase shall be governed by an agreement as per the University rules in force at the time.
18. Additional terms and conditions will be incorporated in the purchase order, if needed, to safeguard the interests of the University.

19. Tender is not transferable.
20. In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.
21. **Power to reject the offer:** Fakir Mohan University reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
22. **Liquidated damages:** Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. The decision of Fakir Mohan University shall be final in this regard.
23. Canvassing in any form is a disqualification.
24. The offer must be in English. The rates should be indicated both in figures and words against item specified in the given table. It is preferable that the price be quoted in Rupees only.

R.D. Singh
18.01.20

(Principal Investigator)