



MAHATMA GANDHI UNIVERSITY

SCHOOL OF PURE & APPLIED PHYSICS

Priyadarshini Hills P.O, Kottayam - 686 560, Kerala, India,

Phone: 0481 2731043, Email : spap@mgu.ac.in

No. SPAP/3010/2022-23/Td2

09-01-2023

TENDER NOTICE

Tender Notice No. SPAP/3010/2022-23/Td2 Dated 09-01-2023

Sealed tenders super scribed "Tender for the supply of **High Pressure Reactor Vessel**" for the use at School of Pure & Applied Physics, Mahatma Gandhi University", are invited for the supply and installation with following specifications.

SI No	Items	Details
1.	High Pressure Reactor Vessel	1 No -Specifications attached
2.	EMD	1% of the Cost of the equipment/Purchase Assessment Cost (PAC) for which tender is submitted
3.	Tender fee	0.25% of the cost of the equipment (PAC) rounded to the nearest multiple of 100 + GST @18%
4.	Last date for submission of completed Tenders	4.00 P.M on 23-01-2023
5.	Date of opening of Technical & Financial Bid	27-1-2023 at 11.00 A.M at School of Pure & Applied Physics
6.	Period of supply and installation	Within 30 days from receipt of purchase order

SPECIFICATION of High-Pressure Reactor Vessel

Sl no	Item	Spec
1.	Volume:	250 ml
2.	Pressures	350 bar
3.	Temperatures:	upto 500°C
4.	Material:	SS-316/316L or Nickel, or Titanium, or Zirconium,
5.	Vessel I/D	65 (mm)
6.	Vessel Internal Height	80(mm)
7.	Material of Construction	SS 316 wetted parts
8.	Head Mounting Style	Removable head and vessel design
9.	Heating Type	Electrical ceramic band heater with cladding & insulation & heater temperature control for 500°C
10.	Motor	1/8 hp AC motor with 100-1450 RPM Shaft Sealing Zero leakage magnetic drive coupling M8 with 0.8 Nm torque
11.	Stirrer	4 bladed turbine stirrer
12.	Standard Nozzles, Valves External Valves & Fittings	Fittings Pressure gauge, safety rupture disc, gas inlet and liquid sampling needle valve with common dip tube, solenoid valve at inlet of cooling coil, vent needle valve (All needle valves 1/8" size)
13.	Internal Fittings:	Serpentine cooling coil, dip tube, thermowell with RTD PT100 temperature sensor

14.	Gasket	metallic grafoil gasket
15.	Control Panel	SS control panel with programmable PID temperature
16.	warranty	3 year

Duly filled up and signed tender schedule along with relevant documents should be submitted to the Director, School of Pure & Applied Physics, Mahatma Gandhi University Priyadarshini Hills P.O, Kottayam-686560, Kerala. Blank Tender Forms can be downloaded from the university website (www.mgu.ac.in). Tender fee should be remitted to the M G University E-payment site. Copy of the receipt should be attached along with the tender schedule. EMD can be submitted by way of Demand draft in favor of Director School of Pure & Applied Physics, S.B A/c No: 37011203937 payable at SBI M. G University campus Branch, Kottayam

GENERAL TERMS & CONDITIONS:

- i. Bidder should be a company registered in India or registered partnership/proprietary firms. Copy of the valid/relevant certificate should be attached.
- ii. For ensuring the guarantee relating to the quality of the articles supplied, a written agreement must be submitted by the firm.
- iii. Certificate from the vendor must be attached stating that they should not have been blacklisted by any of the Government entities under State/Central Govt.
- iv. For those bidders submitting tenders for more than one instrument, separate applications for each instrument (Tender Bid and Financial Bid) must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.
- v. Validity of tenders should be at least 3 months from the last date of submission of the tenders
- vi. The tenders received late, without tender fee, without earnest money, without required documents or incomplete in any respect / Misleading will out rightly be rejected.
- vii. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.
- viii. A qualified bidder should submit 5% of PAC as Security Deposit.
- ix. The prices quoted must be net per unit, inclusive of accessories, cables and installation charges should be clearly mentioned otherwise it will be presumed that the rates quoted are inclusive of all these charges and will not be paid
- x. All other charges including GST, Excise Duty and other levies payable by C.I.P should be clearly indicated otherwise it will be presumed that the rates quoted are inclusive of all these charges and will not be paid
- xi. The purchase committee of the School of Pure & Applied Physics reserves the right to accept/reject any or all the tenders at any time without assigning any reason.




Director

School of Pure & Applied Physics

DIRECTOR
School of Pure & Applied Physics
Mahatma Gandhi University
Kottayam