



Mahatma Gandhi University, Kerala

Tender No: SCS/ReTENDER/TS/2020

Dated: 18.03.2020

NOTICE INVITING TENDER

(Tender No: SCS/ETENDER/TS/2018)

The Registrar, Mahatma Gandhi University, Kottayam invites online bid (technical and financial bid) for Supply & Installation of the Scientific Equipment- **Micro Twin Screw Extruder along with Micro Injection Moulding machine for School of Chemical Sciences** from reputed firms. The period of the tender is 180 days from the date of tender.

1	Name of the scientific equipment	Micro Twin Screw Extruder along with Micro Injection Moulding machine
2	Earnest money deposit (EMD)	Rs. 55000/-
3	Tender submission fee	Rs. 8300 + GST
4	Period of supply and installation	Within 15 days
5	Mode of submission of Bid	Online
6	Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in
7	Last date and Time of submission of tender by online	25.03.2020 5 PM
8	Date and time of opening of technical bid	27.03.2020 10.30 AM

General tender documents and tender schedule can be downloaded in A4 plain size paper free of cost from the website www.etenders.kerala.gov.in.

Documents to be submitted along with bid through online

Sl.No	Through online
1	Scanned copy of valid registration certificate/dealership certificate
2	Scanned copy of duly filled e-payment form
3	Scanned copy of other certificates required, if any, for tender acceptance
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs.200/-
5	BOQ

Special Conditions

1. Onsite training has to be arranged by the vendor. Training should include operation, software applications, analysis, handling and maintenance of system.
2. List of your customers using the instrument with the above mentioned specifications should be given.
3. Laboratory floor space, electrical power requirements, earthing, room temperature/ humidity requirements etc. should be mentioned appropriately.
4. Complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (soft copies).
5. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid.
6. All the clearance of the consignment should be carried out by the bidder. Institute will provide all the necessary documents for the same. The consignment should be delivered to the laboratory by the bidder.
7. The quoted price in the BOQ should be inclusive of all taxes/freight/installation charges

The bids shall be opened at the date and time specified. Further details can be had from the office. **The Director, School of Chemical Sciences, Mahatma Gandhi University, Kottayam, Kerala-686560 Ph: 0481-2731036, Email: office.scs@gmail.com.** on all working days during working hours. The bidders are advised to submit their bid well in advance to avoid any kind of network issues.

The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

Registrar

Mahatma Gandhi University, Kerala



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Supply & Installation of the Scientific Equipment- **Micro Twin Screw Extruder along with Micro Injection Moulding machine**

Sl.No	Qty.	Particulars	
		<u>Micro Twin Screw Extruder</u>	
1	1	Minimum sample size (Volume)	7 – 10 ml
		Torque per screw	5 Nm or more
		Speed range	2 to 350 RPM or more
		Temperature	300 Deg. C or more
		Cooling	With forced air
		Pressure capability of barrel	200 bars or more
		Material of construction of barrel and screws	Steel (M340) or equivalent
		<u>Micro Injection Moulding machine</u>	
		Design	Vertical and piston based
		Power	230 V ± 10 %, 50...60 Hz
		Injection pressure:	1,200 bars
		Cylinder temperature	450 °C
		Mould temperature (minimum)	250 °C
		Air pressure requirement	Must not exceed 10 bars

		Moulds	Mould for HAAKE MiniJet, Tensile bar ISO527-2-1BA
			Mould for HAAKE MiniJet, disc diameter 20 mm, height 1.5 mm
			Mould for HAAKE MiniJet, DMA bar (MARS) L: 60 mm. W: 10 mm, H: 1 mm
			Mould for HAAKE MiniJet, bar 80x10x4 mm Izod ISO180, Charpy ISO179-1
			Mould for HAAKE MiniJet, bar 1.6 x 12.7 x 50.8 ASTM D 790
		Installation and Familiarization	Installation and training to users should be given at our laboratory by a trained Application engineer.
		Warranty	Minimum 3 Years warranty for complete instrument
2	1 No		Technical/Analytical/Manpower support for 3 years - A viable plan for the technical/manpower support for a period of 3 years must be quoted.
3	1 unit		UPS - Necessary UPS with tubular batteries (Branded)