



Department of Geology
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No. 261/74/GOL/2021

Dated: 07/02/ 2023

NOTICE INVITING QUOTATION

Sealed quotations are invited for the purchase of **Compact Bench-top meter (pH / mV / Ion Selective measurements with Fluoride Ion electrode)** for the Department of Geology, University of Kerala, Kariavattom Campus. The specifications of the equipment are given in the attached Table: 1. The quotations should reach "**The Head of Department, Department of Geology, University of Kerala, Kariavattom Campus, Thiruvananthapuram - 695581**" on or before **20th February 2023, 4.00 pm**. The quotations will be opened at 11.00 am on 21st February 2023, at Department of Geology, University of Kerala, Kariavattom Campus.

Terms and Conditions

1. The quoted rate must include the tax and GST as applicable. (No Tax Exemption is allowed).
2. The offer should be valid atleast 90 days from the date of opening of the quotations.
3. Complaints with the items supplied should be rectified/ replaced on satisfaction of the University by the suppliers at their own cost.
4. Payments will be made only after the supply and verification by chemists/technicians concerned, as per required specifications notified in quotation.
5. Last date of submission of quotations: **20/02/2023 at 4:00 pm**
6. Opening of quotations is scheduled on **21/02/2023 at 11:00 am** in presence of such suppliers or their authorized representatives who may be present at that time.
7. The Department Head reserves the right to reject/accept any quotation without assigning any reason.




21/2/23

Associate Professor and Head

Associate Professor & Head
Department of Geology

Table-1: Specification

Instrument		Specifications
pH / mV / Ion Selective measurements with Fluoride Ion electrode		Waterproof, Graphic LCD Display with backlight
pH	Range	-2.00 to 20.00pH
	Resolution	0.1/0.01/0.001 pH
	Accuracy	±0.002 pH+1 LSD
	Calibration	Up to 6 points (USA ,NIST,DIN,FSCI,CUSTOM)
	Slope Display	Yes, up to 5 different slopes with offsets
	Temperature Compensation	Automatic or manual (0 to 100°C/32 to 212 °F)
mV	Range	±2000 mV/ Rel.mV
	Resolution	0.1 mV
	Accuracy	±0.2 mV or +0.05 % of reading; whichever is greater
	Offset Adjustment	Upto ±150 mV
Ion Mode	Range	0.001to 19999 (±2000mV)
	Resolution	0.001/0.01/0.1/1 (automatic)
	Accuracy	0.5% full scale (monovalent ion) 1% full scale (divalent ion)
	Calibration Points	2 to 6 points from one of the following groups: 0.001,0.01,0.1,10,100 0.01,0.1,1,10,100,1000 0.02,0.2,2,20,200 0.1,1,10,100,1000,10000 0.05,0.5,5,50,500,5000
Temperature Mode	Resolution	0.1 °C/ 0.1°F
	Accuracy	±0.3 °C/ ±0.5 °F
	Calibration	Offset in 0.1 increments; offset range: ±5 °C/9 °F
Ion Selective Electrode- Fluoride	Electrode	Fluoride
	Type	Combination ISE-solid state
	Refillable or Gel (Sealed)	Refillable
	Body	Plastic
	OH Range (ppm)	0.02 to saturation ppm
	Interferences	OH ⁻
	Temperature Range	0 to 80°C
	Material	Glass Body
	Length * Diameter (mm)	110*13
	Connection	BNC
Applications	Used to analyze drinking water, wastewater, sea water, stack gases, minerals, soils, foods, biological fluids., ASTM/EPA Method	
Output	Mini-B USB , RS232 (phono plug),stirrer	
Memory	Up to 500 data sets, Viewable	
Datalogging	Manual, timed (selectable every 3 to 3600 seconds) Printer or CSV format	

Calibration due alarm	Yes, user selectable from 8hrs, 16hrs, & 1-31 days
High/Low Alarms	Yes, user selectable, visual and audible
Software	Must be upgradable
Inputs	BNC, mini-phone ATC, ground
Power Requirements	100 to 240V AC ,50/60Hz
Special Features	The meter should meet IP54 standard pH electrode with temperature probe must be included in the supply Should have regulatory and safety CE, TUV 3-1, FCC Class A Should have inputs BNC connection for pH, Redox Or Ion Selective Electrode and the facility to add stirring probe on requirement




2/2/2023

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