

KANNUR



UNIVERSITY

Department of Chemistry/Nanoscience

Payyanur Campus

Edat (P.O), Payyanur- 670327, Kannur Dist., Kerala

Tel: 0497 2806402

DST-INSPIRE/Instrument/QTN/DCS

Dated 23.10.2021

QUOTATION NOTICE

Sealed quotations are invited from reputed manufacturers and authorized dealers for the **Upgradation of the existing Battery cyler (BTS4000)** including an **8 Channel Tester model BTS4000-5V6A and Mid-machine for BTS4000 tester** for Department of Chemistry/ Nanoscience, Kannur University, SAT Campus, Payyannur, Kerala under DST-INSPIRE funded project.

Specification for 8-Channel Tester and Mid Machine – BTS4000-5V6A

1. 8-Channel Tester:

i. Voltage:

- CV output range 25mV -5V
- Min discharge voltage 1.0V for universal holder, 1.5V for 2m cable
- Accuracy $\pm 0.05\%$ of FS
- Stability $\pm 0.05\%$ of FS

ii. Current

- Output range/channel Range1: 0.5mA-100mA; Range2: 100mA-3A; Range3: 3A-6A
- Accuracy $\pm 0.05\%$ of FS
- CV cut-off current Range1: 0.2mA; Range2: 6mA; Range3: 12mA
- Stability $\pm 0.05\%$ of FS

iii. Power

- Output power/channel 30 W
- Stability $\pm 0.1\%$ of FS

iv. Charge

- Charge modes CC, CV, CCCV, CP
- Cut-off condition Voltage, Current, Time, Capacity, $-\Delta V$

v. Discharge

- Discharge modes CC, CP, CR, CV
- Cut-off condition Voltage, Current, Time, Capacity

- vi. **Cycle**
 - Max cycles 65535
 - Max steps 254
 - Cycle nest 3
- vii. **Protection & Safety**
 - Power-off data protection
 - Off-line operation mode
 - User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc.

2. Mid-Machine-BTS4000-5V6A

To connect with the computer (server) & the tester/ multiple testers

- Channels feature: Independent pairs of closed loop for constant
- Channels control mode: Independent control
- Data acquisition method: Kelvin connection
- Noise: <85dB
- Database: MySQL
- Communication: TCP/IP
- Operating system: Windows 7/8/10 64 bit

Operation & Instruction Manual: Customer should provide operation and instruction manual for operation and maintenance of the system.

Warranty: 2 year warranty should be provided.

Installation: Supplier has to supply and demonstrate the equipment at University premises.

Terms and Conditions:

1. Sealed Quotations should reach the undersigned, at the address given below.
2. Quotations should contain price (INR), Customs duty (if any) and other necessary details.
3. The Price quoted is on F.O.R Basis. Free delivery to Kannur University.
4. 4 to 5 weeks from the date of receipt of your commercially clear purchase Order.
5. Rate quoted for each item shall be inclusive of all taxes, Customs duty (if any), other such Charges and delivery charges at site (Department of Chemistry/ Nanoscience, Kannur University, SAT Campus, Payyanur – 670327, Kerala).

6. The quotations should reach the Dr. Anjali Paravannoor, DST-INSPIRE Faculty, School of Chemical Sciences, Kannur University, SAT Campus, Payyanur – 670327, Kerala on or before 2 pm on 10.11.2021. The envelope should be superscripted with the Quotation notice number. The Quotation will open on 12.11.2021 at 11.00 am.



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