

Government of West Bengal.  
Office of the Principal, Burdwan Medical College.  
Purba Bardhaman.

Memo No. BMC/PC/

Dated, Purba Bardhaman, the

2023.

QUOTATION

Sealed quotation are hereby invited from the Manufacturer Company / Dealers or Suppliers, for supply the undernoted instrument to **NPSVH project** related to the **Microbiology Department**, Burdwan Medical College, Purba Bardhaman. Rates should be inclusive of taxes, delivery charges and all other charges if any, failing which the quotation will be treated as cancelled. Quotation should be reached this office on or before 18/01/2023 within 1PM in a sealed cover mentioning the purpose of Quotation. No quotation will be received after the stipulated date and time. The undersigned reserves the right to accept or reject any quotation without assigning any reason. Valid trade license, P.Tax & Pan Card (Xerox Copy) GST Registration and others terms and condition which mentioned in other enclosure, should be submitted with the rate Quotation.

Sl no.	Name of the Articles.	Rate Per
1.	Micropipettes Single Channel- volume (0.1-2 $\mu$ l) (Specification attached here with)	Per pc
2	Micropipettes Multichannel- volume 30-300 $\mu$ l (8 Channel) (Specification attached here with)	Pr pc
3	Water Bath (Specification attached here with)	Per pc

Principal,  
Burdwan Medical College.  
Burdwan.

Memo No. BMC/PC/

125/1(7)

Dated, Purba Bardhaman, the 11/1/ 2023.

Copy forwarded to:-

1. The District Magistrate, Purba Bardhaman.
2. The information and cultural officer, Purba Bardhaman is being requested to upload the Quotation notice in District NIC Website.
3. The Chief Medical Officer of Health, Purba Bardhaman.
4. The M.S.V.P., B.M.C. & hospital, Purba Bardhaman.
5. www.wbhealth.gov.in , Swasthya Bhawan, Salt Lake, Kolkata-700091
6. Burdwan Medical College, Website, Purba Bardhaman.
7. College Notice board, for favour of information with the request to please display the notice in the Notice Board for wide circulation.

11/1/23  
Principal,  
Burdwan Medical College.  
Burdwan.

**2. MICROPIPETTES SINGLE CHANNEL OF VARIABLE VOLUME  
(0.1-2µl,1-10 µl, 2-20 µl, 20-200 µl and 100-1000 µl).**

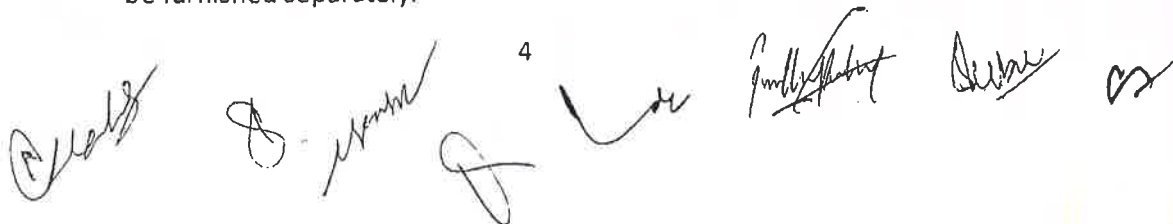
**Technical specifications**

1. Extremely light pipetting action by tension free spring mechanism
2. Fully autoclavable(121<sup>0</sup>C):UV resistant material
3. Volume locking system
4. Increments at least 0.1µl fine adjustment for pipettes expect for 100-1000 µl volume pipette where increments can be read as 0.5 µl
5. Suitable for all brands of tips.
6. Adjustable for variable volume;fixation of adjustable volumes
7. Three defined stops(single button operation preferred)
  - a. take up from first stop
  - b. dispensing and blow out
  - c. tip ejection
8. Slim pipette shaft
9. Cone for standard tips
10. Safe cone filter lock
11. Easy and safe tip ejector mechanism.
12. Made of corrosion proof material.
13. Accuracy ≥98.5%
14. Precision ≥ 99.4%
15. Should be capable of being stored and operable at ambient temperature
16. Provide GLP protocols
17. Provision of onsite/external calibration
18. Stand for micropipettes should be provided.

**General specifications:**

1. Satisfactory working report of the quoted model from three reputed government institutes/hospitals should be included( within last two years of submission of bid).
2. All equipment should specify Design qualifications, Installation qualifications, Operational Qualifications and Performance qualifications. Validation and calibration reports should have traceability towards applicable national / international standards.
3. Original product catalogue should be provided by the firm.Necessary documents, technical write up in English shall be attached with the offer both in hard and soft copies.Performance, efficiency, other factors such as distortion etc. as applicable be also furnished.
4. Onsite, in - lab customer training to be provided
5. 2 years back to back warranty with preventive maintenance will be provided by the company. Warranty should commence only after delivery of satisfactory working report.
  - a. Complete with comprehensive set of spare parts.
  - b. The make, rating, model, description, specifications, quantity of each item shall be furnished separately.

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### 3. ADJUSTABLE VOLUME DIGITAL MULTIPLE CHANNEL MICROPIPETTES

#### Technical Specifications

1. ISO 8655 certified digital multichannel pipettes of variable volume suitable for all brands of tips.
2. Microprocessor controlled motor, rechargeable battery pack with charging adapter
3. Pipetting Modes: Autodispense, Dispense, Pipetting, Pipetting and mixing, Manual pipetting, Sequential pipetting and dispensing
- 4.

Range	Increment	Precision	Type
5 to 50 $\mu$ L	0.5 $\mu$ L	2.0 to 0.7%	8 channel
			12 channel
30-300 $\mu$ L	5 $\mu$ L	1.5to 0.3%	8 channel
			12 channel

6. Extremely light pipetting action by tension free spring mechanism
7. Fully autoclavable(121<sup>o</sup>C):UV resistant material
8. Volume locking system
9. Adjustable for variable volume;fixation of adjustable volumes
10. Safe cone filter lock.
11. With easy and tip ejector mechanism.
12. Made of corrosion proof material.
13. Should be capable of being stored and operable at ambient temperature
14. Provide GLP protocols
15. Provision of onsite and external calibration
16. Stand for micropipettes should be provided.
17. Desirable: a history function, Service interval warning, Sequential tip ejection

#### General specifications:

1. Satisfactory working report of the quoted model from three reputed government institutes/hospitals should be included( within two years of submission of bid).
2. All equipment should specify Design qualifications, Installation qualifications, Operational Qualifications and Performance qualifications. Validation and calibration reports should have traceability towards applicable national / international standards.
3. Original product catalogue should be provided by the firm.Necessary documents, technical write up in English shall be attached with the offer both in hard and soft copies.Performance, efficiency, other factors such as distortion etc. as applicable be also furnished.
4. Onsite, in - lab customer training to be provided

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## 6. WATER BATH

### Technical specifications:

1. Stainless steel SS304 chamber interior.
2. Benchtop. Capacity: 12-16 Liters
3. Microprocessor controlled.
4. Simultaneous display of set and actual temperature, time and RPM
5. Independent timer with sound signal
6. Temperature range 25 - 100°C
7. Increased temperature stabilization due to built-in magnetic stirrer (regulated speed 300-1000 rpm).
8. Temperature setting via a keypad and digital display; thermostat control knob and on/off switch should be available
9. Adjustable shaking speed.
10. RTD Temperature Sensor.
11. PID Temperature Controller.
12. Accurate temperature control
13. Over Temperature protection.
14. Thermostat equipped with flowing water cooler.
15. High safety level for constant operation
16. The heater for chamber located at outside bottom of water chamber, not inside chamber.
17. Shaking motion-linear.
18. Over Current Protection.
19. Variable fluid level to allow different sample sizes without refilling or overflowing the bath.
20. Proper insulation between outer and inner walls to prevent heat loss.
21. Should provide cover, diffuser tray and drain hose.
22. Water bath should be provided with a drain plug to facilitate easy emptying and cleaning of inner chamber.
23. Should have safety features including audible alarm, adjustable digital over-temperature protection, low-level detection and high-temperature cut-offs
24. Power supply: 220-240V AC,50Hz

### General specifications:

1. Satisfactory working report of the quoted model from three reputed government institutes/hospitals should be included( within two years of submission of bid).
2. All equipment should specify Design qualifications, Installation qualifications, Operational Qualifications and Performance qualifications. Validation and calibration reports should have traceability towards applicable national / international standards.
3. Original product catalogue should be provided by the firm.Necessary documents, technical write up in English shall be attached with the offer both in hard and soft copies.

Performance, efficiency, other factors such as distortion etc. as applicable be also furnished.

4. Installation: the bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the laboratory in advance. Onsite, in lab customer training to be provided. The equipment should be supplied with 2 meter cord at input and fitted with plugs of appropriate rating(5/15Amp)
5. 5 years back to back warranty followed by 5 year CMC should be provided by the company and warranty should commence only after delivery of satisfactory working report.
  - a. Complete with comprehensive set of spare parts.
  - b. The make, rating, model, description, specifications, quantity of each item shall be furnished separately.
  - c. Downtime commitment to be restricted to maximum period of 48 hours in metro cities and 96 hours in hard to reach areas (working days) and punitive actions shall be taken in case of failure to maintain the desirable downtime.
  - d. Preventive maintenance plan and technical support to be provided.
6. A suitable voltage stabilizer to be given. A line voltage corrector of appropriate rating should form part of standard configuration. Copper wound single phase automatic line voltage corrector conforming to IS: 9815(St.I)/94 with latest amendments or equivalent international standards fitted with a voltmeter and switch to indicate output/input voltage as under:
  - a. Capacity/rating: 10 KVA: As per the requirement of the equipment.
  - b. Output voltage: 220 volts  $\pm$  10% volts. Input-out voltmeter and ampere meter. Protection: high-low voltage cut-off, overload and short circuit protection.
7. Certifications:
  - a. Product Certification : CE Class II A or US FDA certified
  - b. Quality Certification : BIS/ISO certified
  - c. Electrical Safety : Equipment meets electrical safety specifications such as that of IEC (Class I)

The committee approved the specification of water bath

*[Handwritten signatures and initials]*