GMCKTM/2714/2025-C6 1/404919/2025



GOVERNMENT OF KERALA GOVERNMENT MEDICAL COLLEGE KOTTAYAM GANDHINAGAR P.O KOTTAYAM-08

Email ID medicalcollegekottayam@gmail.com Phone Office 0481-2597279

0481-2597284

Fax- 0481-2597284

Date:25-10-2025

No.GMCKTM/2714/ 2025 -C6

SHORT QUOTATION NOTICE

Sealed quotations are invited for *Purchase of Basal metabolic rate apparatus 1* nos ,Olfactometer 3 nos and thermo aesthesiometer 30 nos for Physiology Department Govt. Medical College, Kottayam

The envelopes containing the quotation should bear the superscription "Quotation for Purchase Basal metabolic rate apparatus 1 nos ,Olfactometer 3 nos and thermo aesthesiometer 30 nos for Physiology Department Govt. Medical College, Kottayam, and should be addressed to "The Principal, Govt. Medical College, Kotayam-8". Intending tenders may submit the quotation on their own papers

Last date and time for receipt of quotation will be 05.11.2025 12 '0' clock Late quotations will not be accepted. The quotations will be opened on 05.11.2025, 2.00 PM in the presence of such of the tenders or their authorized representatives who may be present at that time.

Further details of the requirements and the conditions governing their supply can be obtained free on request from the Principal, Govt.. Medical College, Kottayam till 05.11.2025, 11.00 am

Note; Specification is enclosed herewith . For Further details regarding the specification, can be had from the office until 05.11.2025 11 am

PRINCIPAL

Signed by

Copy to

Dr Varghese P Punnoose

- 1. Librarian , Central Library (for Publishing in Website) Date: 25-10-2025 11:00:00
- 2. Notice Board-MCK/MCH/ICH/DCK/CNK

SPECIFICATION FOR BMR APPARATUS Main Components and Features Spirometer: Capacity: Typically 6 liters. Construction: A hollow double-walled vessel filled with water to create an airtight system. Bell: An inverted, hollow cylindrical bell fits inside the water-filled vessel. Recording System: **Kymograph**: A rotating drum that moves the recording paper. Recording Pen: A pen attached to the bell via a chain and pulley system to record the lung volume changes on the kymograph. Kymograph Speeds: The kymograph can be adjusted to different speeds (e.g., 2 or 4 speeds). **Ancillary Components:** Valves and Tubing: For breathing in and out. Mouthpiece: For the subject to breathe through. Nose Clips: To prevent air leakage through the nose. during the experiment.

Soda-Lime Container: Often included in the central chamber to absorb carbon dioxide

DEPT OF PHYSIOLOGY Govt. Medical College Kottayam Kerala - 636 008

Govt. Medical Col

DEPT OF PHYSIOLOGY Govt. Medical College Kortayam Kerala - 586 008

04/2/3/3/26

OLFACTOMETER - SPECIFICATIONS

Panel Size	1-8 panelists can participate in a single test, as specified by the administrator
Panel Order Setup	Users can either run 1 test at a time and rotate to the next panelist, or conduct the full test sequence then rotate
Testing Modes	Triangular forced choice, binary forced choice, direct presentation, hedonic tone, GB source, and GB boundary
Multiple Odourants	4-8 odourant capabilities (must be specified when ordering) allowing for mixing
Dilution Principle	Venturi educator
Control Mechanism	Mass flow controllers on both clean air and sample air intake
Dilution Range	2^3 to 2^17 optional range extension
Dilution Steps	Variable
Accuracy	95%
Total Air Usage	70 Liters per minute at 80- PSI of clean air
Pressure Flow Rate	Variable, 5 to 30 liters per minute
Presentation Velocity	0.25 m/s at 20 liters per minute
Response Time	0.2s
Sample Delivery	Adjustable

DEPT OF PHYSIOLOGY
Govt. Medical College
Kottayam
Kerala - 686 008

Dr. SHAMNA K. RAHIM
Dr. SHAMNA K. RAHIM
Reg. MD 22
Reg. No. 44 12

SPECIFICATION OF THERMO AESTHESIOMETER **Temperature Characteristics:** Accuracy: Precision in maintaining the set temperature, often specified with a maximum error like ±0.5°C. Range: The minimum and maximum temperatures the device can reach and test. · Rate of Change: The speed at which the temperature can be increased or decreased. Design and Materials: Probe Material: For medical use, probes might mimic human skin properties. For burn analysis, specialized encapsulated materials with similar thermal properties to tissue are used. Ergonomics: For medical applications, comfort and ease of use are crucial for the user applying the probe to the skin.

Govt. Medical College

Kottayam

Kenala 686 003

DEPT OF PHYSIOLOGY
Govt. Medical College
Kottayam
Kerala - 686 008

Medical College, Kotta vam