

SHRI. VASANTRAO NAIK GOVT. MEDICAL COLLEGE, YAVATMAL.  
श्री. वसंतराव नाईक शासकीय वैद्यकीय महाविद्यालय, यवतमाळ

Ref. No.SVNGMC&amp;H/Stores/QT/23-24 /

15913

/23

Dt.28/11/2023

## E- Open Quotation Notice For the supply of Instrument

Dean Shri Vasantryao Naik Govt. Medical College, Yavatmal invited separate open quotation for the supply of Instruments **listed below** in **two envelope** system from manufacturer & authorized dealers. Detail list & specification is enclosed. Interested Manufacturer/dealer can send their quotation.

- A. ENVELOPE NO :- 1 TECHNICAL BID:- Following documents must be submit in this envelope**
1. Shop/Udhyog Aadhar/GEM Reg. establishment act registration.
  2. PAN Card
  3. GST Registration certificate
  4. Cancel Cheque & Bank Details on letter head.
  5. Acceptance of all terms of conditions with stamp of signature firm/company on letter head.

**B. ENVELOPE NO :- 2 PRICE BID**

1. Quote your Minimum Rates in a following Format on the letterhead of the firm/company in Price Bid envelop the cost should be quoted in Indian currency only. Quote maximum two models on separate sheet.

1.Basic Price:-.....

2. Taxes: Excise duty..... Custom duty..... GST..... other.....

3. Installation Charges:-.....

4. TOTAL=(i)+(ii)+(iii)+(iv):-.....

5. CMC/AMC:-.....

6. Prices for consumables/ Disposable/ accessories should be submitted separately in price bid which will be valid for warranty period, AMC.CMC period.

Both the sealed envelope No. 1 and No.2 should be put together in one cover and it should be sealed. This sealed envelope should be marked on upper left hand corner mentioning name of the items No of the Item Quotation enquiry No. And Date of quotation opening. The full name and address of the Firm/Company should be written on the left hand lower corner. Such sepa rate envelope containing sets of Envelope No.1 and No. 2 should be submitted separately for each Items mentioned in the List.

Envelope No.2 will be opened only when the documents as mentioned in envelope No.1 are in order as per requirements and if item is as per specifications.

Separate quotation should be prepared for every item mentioned in the list and sent in sealed envelope (duly sealed) by post or hand delivery so as to reach Inward Section of administrative office, Shri Vasantryao Naik Govt. Medical College, Yavatmal on or before **15 / 12/2023** up to 05.00 pm.

Date & timing of the opening of quotation (Technical Bid) :- **16 / 12/2023** at **12.00 pm.** at College Council Hall. Date & time of opening of the Price bid will be decide after scrutiny of the technical detail. Representative of the Supplier may attend the meeting by submitting authorization letter.

Please quote your minimum rates for Supply of articles as per details given below/list enclosed,. The separate envelopes (every Item) containing the quotation should be sealed and super-scribed as under:-

Quotation due on..... Against inquiry No.....for the purchase of.....

**LIST OF INSTRUMENT REQUIRED**

Sr No	Name of the Instrument/Equipment & Specification	Approx QTY	Approx Unit Price inclusive all Taxes
1	Hydrometer, milk	2	
2	Balance for weighing food stuff (Capacity 2 kg)	2	
3	Centrifuge Clinical	1	
4	Weighing machine adult	6	
5	Baby Weighing machine	2	
6	Salters Baby Weighing machine	2	
7	Harpenden Calipers (foreskin in fold thickness)	2	
8	Height measuring stand	3	
9	Chloroscope	10	
10	Horrocks Apparatus	3	
11	MUAC tapes	10	
12	Haemoglobinometer	5	
13	BP Apparatus (Digital)	10	
14	Stethoscope	10	
15	Water Sampling bottle from any depth	1	
16	Needle Shredder	3	
17	Vaccine carrier	5	
18	Mosquito Catching kit	1	
19	Glucometer	5	
20	Clinical Thermometer	10	
21	First Aid Kit	1	
220	Otoscope	1	

**The terms and conditions for the supply are:-**

1. Enquiry No. must invariably be given at the top of the envelope. Envelopes without indication will not be entertained.
2. For equipment/ accessories/ spares, technical bid and price bid must be sent in two separate, sealed envelopes and front of the envelop marked clearly in capitals as 'PRICE BID', 'TECHNICAL BID'. Otherwise the bid will be summarily REJECTED.
3. Offers other than those from the manufacturer should be supported by an authority letter from the manufacturer as per Annexure-A.
4. AMC/CMC/Extended Warranty if applicable must be quoted along with price bid and not with the Technical bid. However, in technical bid form consent for AMC/CMC must be given.CMC (Labor& Spare parts), these charges include the cost of replacement parts/Components/spares/accessories etc. This shall be borne by the firm. In case of consumables/these will also be included in CMC as per Technical Specification. However, AMC charge will cover labor only and does include the cost of any replacement parts/components etc.
- 5. Unsealed quotations will be rejected.**
6. Full description, make and quantity of the articles must be mentioned in your quotation. Original catalogue/literature should be submitted with the quotation (Technical bid envelop)
7. Validity of the quotation should be for a minimum period of 120 days.

8. Delivery period for each item be specifically mentioned in the quotations from the date of Supply order it should be maximum of 6 weeks.
9. The Dean reserves the right to call the firm for physical demonstration of item to verify the quality of the offered item from the lowest bidder. The firm must demonstrate the product within 7 days of requisition, failing which the bid will be rejected.
10. The institute reserves the right to reject the supplied goods if the same are not found in accordance with the specifications approved and asked for. In case there is a short/defective supply the firm will be informed and the defective material will be lifted from the concerned department/Central store by the supplier at their own cost within two weeks period. The institute will not bear any expenses on this account.
- 11. The rates and total cost must be quoted in both words and figures (over-writing not allowed.)**
12. Rate should be for free delivery at Shri V.N. Govt. Medical College, Yavatmal premises only. Rate should be quoted including all charges. Rates must be quote on letter head alongwith Pan, VAT, CST/GST Number. It should be submit in Price envelope. (envelope No 2)
13. The suppliers will have to adhere to the delivery schedule. Delayed supplies beyond 30 days from the date of supply order as the case may be will be subject to demurrage @0.5% per weeks or part thereof of the contract price subject to maximum of 10% of contract price, if the Price is below 2 lakh, else it will be @ 0.5% up to as maximum of 5%.
14. Warranty/Guarantee should be quoted as per the Technical specifications. (2 Years)
15. The successful bidder will submit P.B.G in the shape of FDR/TDR only in favor of **Dean, Shri Vasantrao Naik Government Medical College, Yavatmal @ 3%** of the total value of the order which will be valid for 30 months in case the warranty is for 24 months and 66 months in case the warranty is for five years. The same shall be further extended for 5 more year till the time AMC/CMC inforce.
16. The Manufacturer/Distributor/Agent should furnish along with the Price Bid a certificate that the rates quoted by the firm are the same as are being charged from other Government or Non-Government Departments/Institutions for similar items.
- 17. Compliance Chart :-** (If quoting for more than one model then separate formats should be enclosed for different models in the same envelope.) Make & Model No of the quoted Item should be mentioned on the top Part of the compliance Chart.

Sr No	Tender /Quotation specifications as asked in the tender form	Equivalent specifications quoted by the tendered with the name of the manufacturer	Whether the tender/ Quotation quoted by the supplier is as per specifications asked for Indicate against each item clearly YES/NO	If the tender quoted is not as per specifications then variations/deviations should be clearly indicated against each item asked for.
1	2	3	4	5

**Equipment Name -** \_\_\_\_\_ **Make & Model:** \_\_\_\_\_

18. The firm should submit undertaking on letter head stating that firm & its personnel do not have any direct or indirect interests with purchasing institute.

19. The Envelop No. 2 (Commercial Bid) will be opened of only those tenderers who have submitted all the documents as per tender terms and conditions in the envelop no. 01 and are technically qualified. The demonstration of tenderer who had quoted lowest price will be taken. If two tenderers had quoted same cost of equipment, then the demonstration of both the tenderer will be taken.

**20. Complaint/s :-** Any complaint / representation regarding tender/quotation will be entertained only after depositing of **Rs. 10,000/-** in form of **Demand Draft** in the name of Dean Shri V N Govt Medical College Yavatmal. Subsequently necessary action will be taken by the Dean and decision of Dean will be binding upon the complainant. If the complaint turns out to be false or invalid the amount will be forfeited. The Amount shall be refunded if after scrutiny the complaint is found to be true. No further complaint/representation from the same complainant for the same tender/quotation will be entertained.

**Note:- The Technical Specification, quoted price & availability of service Centre near Yavatmal will be considered while approving the prices.**

21. I) The Instrument/Equipment Shall be of ISI/ISO mark or equivalent.

II) It shall necessary to provide OEM (original Equipment Manufacturer)

III) Supplier to provide user of maintenance AMC/CMC additional services.

  
DEAN

**Shri Vasantnao Naik Government Medical  
College, Yavatmal**

## 1. Hydrometer, milk

### Technical Specification

1. Material:-Glass
2. Scale Range: the specific gravity or density scale typically ranges from 1.028 to 1.034
3. Height:- 12 Inch
4. Temperature: Milk hydrometers are calibrated for specific temperatures, usually 15°C (59°F) or 20°C (68°F).
5. Transparent:- Yes
6. Capacity:- 8 ml



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## 2. Balance for weighing food stuff (Capacity 2 Kg)

### Technical Specification

**Capacity:** maximum weight capacity of 2 kilograms (or 2000 grams).

**Accuracy:** high level of accuracy, this is usually expressed as a percentage of the full-scale capacity a balance with an accuracy of  $\pm 0.1\%$

**Tare Function:** The tare function allows you to reset the scale to zero after placing a container on it.

**Units of Measurement:** The scale should be able to display measurements in various units, including grams (g).

**Display:** LCD display.

**Auto-off Function:** balance should have an automatic shut-off feature that turns off the scale after a period of inactivity.

**Power Source:** rechargeable batteries (commonly AA or AAA batteries and have an AC adapter option.

**Platform Material:** The weighing platform should be made of food-safe and easy-to-clean material, such as stainless steel or tempered glass.

**Compact and Portable:** lightweight and balance easy to store and transport.

**Zero Adjustment:** balances have a zero adjustment knob or button that allows you to calibrate the scale to ensure accuracy.

**Weighing Tray or Bowl (Optional):** scales with a detachable tray or bowl for containing the food being weighed. This can be especially useful for liquids or small items.

**Overload Indicator:** An overload indicator or warning can alert, if placed too much weight on the scale, potentially damaging it.

**Auto-Calibration:** scales with automatic calibration to ensure accurate measurements over time.



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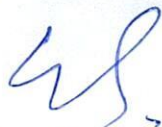


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### 3. Centrifuge Clinical

#### Technical Specification

Centrifuge design:-Bench Top  
Weight including Rotor in kgs:-53  
Maximum RPM with no load:-12000 to 15000 or above  
"Number of steps of RPM Variation available in the settings (correspondingly RCF also varies)":-1  
RPM setting accuracy:-plus minus 5%  
Type of Motor:-Brushless(without carbons)  
Accessories:-Spanner to tight or loose Nut of Rotor on Motor shaft head puller, spare rotor nuts, fuse-2, Instruction Manual Book, installation CD  
Type of lid lock:-Electronic lid locking with automatic lid opening at end of run  
Maximum Noise level when working at 1 meter distance in db:-60  
Ambient operating Temperature range in Degree centigrade Celsius and humidity range:-0 to 40 and relative humidity is 15 to 80%  
Rotor imbalance diagnostics and automatic stop if required:-Yes  
No of acceleration and deceleration profiles in built for rotor speed while automatic braking:-Acceleration & Deceleration time to be less than 15 sec  
Maximum timer set point:-max 99h, 59min, 59sec  
Parameters to be displayed by the digital display:- RPM, RCF, Settime, Runtime, Rotor running indication, imbalancing if any  
Display Type:-LCD  
Temperature controller:-Micro processor based PID Digital temperature controller cum Indicator, (With LCD Display) to control the Temperature from +40° C up to -20°C  
Configuration of Rotor supplied with centrifuge machine:-Angle rotor  
Rotor Feature with reference to Autoclavability:-Autoclavable Rotor @121 Degree Celsius  
Type of Tubes which can be used with centrifuge machine:-Polypropylene Centrifuge tubes and Glass centrifuge tubes  
Size of rotor supplied with centrifuge in ml:-PCR strip rotor with 1500 rpm/18000G which can hold upto 4xPCR strips RPM15000  
Maximum RCF:-15000  
Power supply:-220V-240V 50Hz  
Power consumption in watts:-650  
Length of the Centrifuge in mm:-720  
Width of the Centrifuge in mm:-325  
Height of of the Centrifuge in mm:-305  
Temperature of refrigerator in degree Celsius:-upto -20°C  
Cooling arrangement:-Compressor Cooling  
Temperature control accuracy:-± 2°C



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#### 4. Weighing Machine Adult

##### Technical Specification

Cost efficient

Wide range of utility

Long lasting material quality Robust and tensile

**Capacity:** weight capacity up to 180 kg

**Accuracy:** Adult scales should provide accurate weight measurements. usually to the nearest 0.1 kilogram (0.2 pounds).

**Units of Measurement:** Scales may offer weight readings in various units, including kilograms (kg). Make sure the scale displays the unit you prefer.

**Display:** The scale should have a clear and easy-to-read display, typically an LCD or LED screen, which shows the weight measurement clearly.

**Auto-On and Auto-Off:** Many modern scales have an auto-on feature that activates the scale when you step on it and an auto-off function.

**Tare Function:** The tare function allows you to reset the scale to zero after placing a container on it.

**Power Source:** rechargeable batteries and have an AC adapter option.

**Compact and Portable:** lightweight and balance easy to store and transport.

**Zero Adjustment:** balances have a zero adjustment knob or button that allows you to calibrate the scale to ensure accuracy.

**Material:-** Tempered Glass

Display Type:-LCD



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## 5. Baby Weighing Machine

### Technical Specification

#### Product Information

Light weight and portable:-Yes

Built-in rechargeable battery:- Yes

Zero weight adjustment facility:-Yes

Quick, clear digital read outs:-Yes

Pan or baby tray shape:-Open-ended trough

Baby tray or Pan construction should not allow the baby to slip away from the tray:-Yes

Should hold measured value irrespective of baby movements:-Yes

Electronic damping facility for eliminating the reading fluctuations caused by moving baby:-Yes

Complete unit can be easily washed and disinfected using both Alcohol and Chlorine agent:-Yes

#### GENERAL FEATURES

Type:-Table top electronic baby weighing scale with LCD display

Usage:-Infants

Purpose:-For measuring the weight of new borns and infants in laying down position

#### PRODUCT PERFORMANCE CHARACTERSTICS

Measuring range in Kgs:-0.01 to 15

Measurement accuracy (gms):- 5

Resolution (gram):- 1

Auto setting to 0 decimal 00 once the machine is switched on or when no external weight has been put on:-Yes

Measurement does not change with the position of the baby on the pan Yes

#### DIMENSIONAL, WEIGHT AND MATERIAL PARAMETERS

Base size (WxHxD)(mmxmmxmm):- 300x265x85

Pan or baby tray size (WxHxD)(mmxmmxmm):- 550x300x100

Material of the pan or baby tray:-ABS

#### USER INTERFACE AND ENERGY SOURCE

User's interface:-Front panel with LCD display and soft press buttons with ON/OFF, ZERO setting etc.

Size of LCD display, Min 25mm high:-Yes

Power supply for operating voltage:-230V +/-10%, 50Hz, Single phase AC supply

Suitable AC power adaptor (BIS-CRS for safety) to be provided:-Yes

Re-chargeable Battery type:-NiMH

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## 6. Salters Baby Weighing Machine

### Technical Specification

Maximum Capacity:-25KGS

Mode Of Operation:-Manual

Display Type:-Analog

Accuracy: The accuracy of the scale is usually specified in terms of the smallest weight increment it can measure. 0.1 ounces (2.8 grams) or even more precise.

Product Code:-TDP-008

Powder Coated Body:-YES

Division:-100GM

Age Range:- 1-5

Capacity:-25 kg

Graduation:-100 gms

Material:- ABS / Metal Body

Display: digital display to show the weight measurement.

Units of Measurement: grams.

Tare Function: This function allows you to place a soft blanket or towel on the scale before placing the baby on it, and then reset the scale to zero. This ensures that only the baby's weight is measured.

Hold Function: Some scales have a "hold" feature that allows the weight reading to remain on the display for a few seconds after the baby is removed, making it easier for you to read the measurement.

Power Source: Baby weighing machines are often powered by batteries, which can be standard disposable batteries or rechargeable ones.

Auto-Off Feature: the scale might have an auto-off feature that turns off the scale after a period of inactivity.



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## 7. Harpenden Calipers (for skinfold thickness)

### Technical Specification

**Measurement Range:** Ranging from 0 to 80 millimetres.

**Accuracy:** measuring skinfold thickness to within 0.2 millimetres as 0.01%.

**Package Dimensions :** 32 x 22 x 5.5 cm

**Construction:** stainless steel, which ensures durability and precision in measurements.

**Calibration:** The caliper requires periodic calibration to maintain accuracy. This is typically done using a calibration block.

**Measurement Readout:** The calipers should have a clear and easy-to-read scale that provides the measurement of skinfold thickness in millimetres.

**Adjustment:** adjustable jaw that allows the user to control the amount of pressure applied while measuring the skinfold.

**Carrying Case:** The caliper must have protective carrying case to ensure its safety during storage and transportation.



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## 8. Height Measuring Stand

### Technical Specification

Height measuring scale, floor model without weighing scale.

**Measuring range:** 20 -210 cm with 1 mm graduation. Measuring in inches and centimeters. Height stand disassembles into 4 sections and easy to transport in disassembled condition

- Suitable for Personal, medical practices, hospitals, nursing home, school, home. Supplied with knockdown condition with how to assemble manual in English language
- Suitable for height measuring at any location. Accurate, portable, durable and light weight with all plastic parts
- Well designed and Simple Assembly, Skid-proof Foot plate, Accurate and Precise readings
- It has firm vertical stand with easy fold-up for simple set-up with firm & tight fixations



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## 09.Chloroscope

### Technical Specification

Chlorine water Test Kit (0.1 - 2 mg/l) for 200 tests chloroscope is a simple, sturdy compact, portable and easy to operate comparator apparatus to estimate the residual chlorine in water. This is ideally suited for both large and small users of water treated with chlorine. Under normal conditions the recommended value is between 0.1 to 2.0 ppm

No of Test: 200 Nos

Easy to use, Portable, Light weight, Compact, Sturdy Chlorine analyzer

Range : 0.01 – 2.0 mg/l as chlorine

No harmful chemicals

Accuracy: 99.9%



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## 10. Horrock's Apparatus

### Technical Specification

Alkalinity-25to750mg/l

TotalHardness-25To1000Mg/l

Chloride-100Mg/l

Turbidity-0.0To 80 NTU

pH-6.5 -8.5

6 white cups, each of 200 ml capacity

One black cup with a circular mark on the inside

metal spoons (each holds 2g of bleaching powder when filled up to the brim)

7 glass stirring rods

One special pipette

Two droppers

Starch - iodide indicator solution

Instruction folder

**Chemical Reagents:**sodium thiosulfate, DPD (N, N-diethyl-p phenylenediamine) reagents.

**Laboratory Equipment:** Laboratory equipment like titration burettes, pipettes, and colorimeters.

**Sample Containers:** Suitable containers to collect water samples for analysis. These containers should made up of materials that do not react with chlorine.

**Reagent Mixing and Storage Containers:** Reagent mixing containers and storage bottles are necessary for preparing and storing reagents used in chlorine demand tests.

**Measuring Instruments:** Precision instruments, pH meters and turbidity meters

**Safety Equipment:** Personal protective equipment (PPE), including gloves and safety goggles.



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## 11. MUAC Tapes

### Technical Specification

**Material:** MUAC tapes made of flexible, non-stretchable material, such as plastic or paper ensure accurate measurements.

**Length:** A standard MUAC tape 110 cm (about 43 inches) long.

**Width:** The width of MUAC tapes is typically around 1 cm (0.4 inches)

**Color:** MUAC tapes are often color-coded. The World Health Organization (WHO) has standardized the color-coding to differentiate between nutritional status categories.

Green: Normal nutritional status

Yellow: Mild malnutrition or risk of malnutrition

Red: Severe malnutrition

**Measurement Scale:** MUAC tapes have a printed measurement scale in centimeters or millimeters

**Instructions:** Some MUAC tapes may have instructions or guidelines printed on them to ensure consistent and accurate measurements.

**Disposable:** MUAC tapes are typically disposable to prevent cross-contamination between patients. They are often provided in sterile packaging.

**Non-adhesive:** These tapes are not adhesive.



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## 12. Haemoglobinometer

### Technical Specification

Kit consists of Comparator Holder black. The back of the holder is fitted with milky colour acrylic screen. In front of the holder there are three windows. The two side windows are fitted with colour standard strips. The middle window is meant for the square tube for colour comparison.

The dimensions of the windows: height 3 cms. Approx, width 0.5 cm approx.

Square H.B. Tubes: 2

H.B. Pipettes: 1

Amber colored glass bottle -1.

Glass Stirrer: 1.

Dropper with teat : 1.

Cleaning Brush: h1.

Spare latex tubing one meter: 1.



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### 13. BP Apparatus (Digital)

#### Technical Specification

Included Components:- 1BP Machine Device,  
4 AA Alkaline Battery,  
1 Water Proof Carry pouch, (36 CM), U  
1 Adjustable Arm Cuff (22-36CM),  
User Manual & Warranty

Power Source:- Both Battery-Powered & USB Powered

It provides an extra-large LCD display


Features WHO classification indicator

It can store up to 60 test results


Comes with a USB port

Comprises of irregular heartbeat detection

It has a motion detector

  
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## 13. Stethoscope

### Technical Specification

#### 1. Design and Components:

- **Chest Piece:** The chest piece is typically made of metal and consists of two sides - the bell and the diaphragm. The bell is used for low-frequency sounds, while the diaphragm is used for high-frequency sounds.
- **Tubing:** The tubing connects the chest piece to the earpieces. It is usually made of rubber material to transmit sound effectively.
- **Earpieces:** The earpieces, often made of soft materials like rubber, fit into the ears and allow the user to listen to the sounds from the chest piece.

#### 2. Acoustic Performance:

- **Bell:** The bell is designed to capture low-frequency sounds, such as heart murmurs and certain lung sounds.
- **Diaphragm:** The diaphragm is sensitive to high-frequency sounds, like normal heart and lung sounds.

#### 3. Sound Amplification:

- features like tunable diaphragms or acoustic chambers that allow the healthcare professional to adjust the pressure applied on the patient's body, enhancing the sound quality.

#### 4. Length and Weight:

- around 28 to 32 inches (71 to 81 cm) to allow comfortable use.
- Weight is low for ease of use and comfort during extended periods of wear.

#### 5. Materials and Durability:

- The chest piece and tubing are typically made of durable materials to withstand frequent use and potential exposure to bodily fluids.

  
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## 1. Water Sampling Bottle from any Depth

### Technical Specification

- 1. Material:** Water sampling bottles made of high-quality materials such as stainless steel to prevent contamination of the collected samples.
- 2. Design:** The Niskin bottle design consists of two main parts: the upper and lower chambers. These chambers can be closed and opened remotely to capture water samples at specific depths.
- 3. Capacity:** The capacity between 1 to 5 liters of water, depending on the specific research requirements.
- 4. Closure Mechanism:** Water sampling bottles feature a mechanism to securely close the bottle at a desired depth. The most common mechanism is a set of spring-loaded or messenger-actuated stoppers that seal the bottle when triggered.
- 5. Triggering Mechanism:** The trigger mechanism allows the bottle to close when it reaches the desired depth. This can be done using a messenger weight that is sent down a sampling wire to activate the closure mechanism.
- 6. Sealing:** The closure mechanism ensures a water tight seal to prevent any contamination or loss of the collected water sample during retrieval.
- 7. Lanyard:** A lanyard or line is attached to the sampling bottle to retrieve it from the water after the sampling process.
- 8. Temperature and Depth Sensors (Optional):** sampling bottles equipped with temperature and depth sensors to record environmental data alongside the water sample.
- 9. Compatibility:** Water sampling bottles are designed to be compatible with various research equipment such as research vessels, winches, and sampling systems.
- 10. Deployment:** Water sampling bottles can be deployed manually using a sampling line or deployed using automated systems like Conductivity, Temperature, and Depth (CTD) rosettes, remotely operated vehicles (ROVs), or autonomous underwater vehicles (AUVs).
- 11. Pressure Rating:** Water sampling bottles should be designed to withstand the pressure at the desired sampling depth without compromising the integrity of the collected samples.



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## 16. Needle Shredder

### Technical Specification

Type: Portable and electrical

Principle of operation: Electro-melting type

### Construction

Suitable sliding tray shall be provided for collection of residue and destroyed syringe tips: yes

Material of the Housing /enclosure: ABS Plastic

Housing/enclosure shall be moulded type and shock proof: yes

Provision to burn the needles and to cut the syringe tips shall be provided in the unit: yes

Manual cutter provided in the equipment: Made of hardened blade of anti-corrosive SS material

Transformer winding: Copper

### Functional

Number of needles of 1mm diameter and 80mm length that can be destroyed in continuous operation of 5 minutes: 25

Sizes of injection needles of all kinds which can be destroyed: Diameter Ranging from 0.4mm to 1.6mm (26 SWG to 14 SWG) with length 12.5mm to 80mm

### Electrical

Power supply: 207V to 253V, 50Hz AC supply

Power ON/OFF switch with indicator shall be provided: YES

Rated power(Watts): 100 Watt

Shall be provided with fuse and power cord of min 3m length and earthing point: YES



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## 18. Vaccine carrier

### Technical Specification

Vaccine storage dimensions (cm): 17.3 x 10.3 x 4.5cm,  
storage volume (L): 0.8 Litre, Weight fully loaded(Kg): 2.18kg.,  
Weight empty(Kg): 1.34kg.

External dimensions: (LxWxHcm) 25x18x21cm,

Internal dimensions: (LxWxHcm) 17.3x 10.3x 12.1cm,

Coldlifeat +43°C: 20hours16mn,

Warmlifeat -20°C: 7 hours 55 mn.

Cool life at +43°C: 3 hours 53 mn,

Lid type and fixing: Removable lid,

External materials: Polyethylene,

Internal lining material:Polystyrene.

Number coolant packs required: 4units,

Coolant packs supplied: Yes.



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## 18. Glucometer

### Technical Specification

Item Dimensions:- L x W x H 10x10x5 Centimeters

Model Name:- Glucometer Sugar Check

Item Weight:-290Grams

Battery Cell Composition:- Alkaline

1. **Measurement Range:** Glucometers measurement range that spans from low to high blood sugar levels. The typical range might be around 20 mg/dL (1.1 mmol/L) to 600 mg/dL (33.3 mmol/L) or similar.
2. **Accuracy:** Glucometers are required to meet certain accuracy standards set by regulatory bodies like the International Organization for Standardization (ISO) and the U.S. Food and Drug Administration (FDA). Accuracy is usually expressed as a percentage of results.
3. **Measurement Time:** Glucometers provide results within a specific time frame, within a few seconds.
4. **Display:** Glucometers have a digital display to show the blood sugar reading. The display may also show additional information such as time, date, and indicators for low and high blood sugar levels.
5. **Memory Storage:** Glucometers must have to store a certain number of previous readings. This helps users track their blood sugar levels over time.
6. **Data Connectivity:** Bluetooth or USB connectivity, allowing users to transfer their readings to a computer or a mobile app for tracking and analysis.
7. **Power Source:** Glucometers are typically battery-powered. disposable batteries or have rechargeable options.
8. **Test Strips:** Glucometers work with single-use test strips that are inserted into the device. These strips contain chemicals that react with glucose in the blood to provide a reading.
9. **Calibration:** Glucometers require regular calibration with a control solution to ensure accurate readings.
10. **Lancing Device:** Glucometers come with a lancing device to prick the skin and obtain a small blood sample for testing. Lancing devices have adjustable depth settings for user comfort.



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## 19. Mosquito catching kit

### Technical Specification

The kit consists of one complete set of mechanical aspirator, one mouth aspirator, 50 numbers of collection containers and one field carrying bag.

### Contents:

#### Adult insect collection accessories

1. Mechanical Aspirator - 1 with all standard accessories
2. Mouth aspirator - 1 30 degree bent aspirator
3. Torch - 1
4. Batteries for the Torch - 2
5. Test tube - 1
6. 25mm aperture opening 10 containers for adult insect collections - 10 No.
7. Insect pins - 000 size - 1 pack
8. Minute pins for pinning - 1 pack
9. Entomological Forcep kit - 1 pack
10. Entomological Brush Kit - 1 pack
11. Test tube rack stand - 1
12. Insect cage 22 cm<sup>3</sup> - 4M2222 model - 1
13. Microslides - 50 nos
14. Magnifying lens - 1 nos

#### Larval Collection Accessories

1. Larval Dipper - Telescopic with angle adjustable - 1
2. Larval pipettes - 50 no. - disposable
3. Larval pipettes - 1 Glass 4mm opening for larval and pupal work
4. Plastic larval sorting tray - 1



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## 10. Clinical Thermometer

### Technical Specification

**Temperature Range:** 32°C (89.6°F) to 42°C (107.6°F)

**Measurement Method:** clinical thermometers use electronic sensors to measure temperature.

**Measurement Time:** 10 to 30 seconds,

**Accuracy:** Clinical thermometers are designed to be highly accurate.

**Display:** Digital clinical thermometers - digital display.

**Unit of Measurement:** both Celsius (°C) and Fahrenheit (°F).

**Power Source:** battery-powered (button cell batteries).

**Water Resistance:** water-resistant.

**Automatic Shut-Off:** automatic shut-off feature that turns off the device after a period of inactivity.

**Alarm Function:** thermometer has audible fever alarm.



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## 210. First Aid Kit

### Technical Specification: -

1. **Adhesive Bandages:** Various sizes and shapes, including standard adhesive bandages (band-aids) and butterfly closures.
2. **Sterile Gauze Pads and Rolls:** Used for wound dressing and covering. Sizes may vary, but common sizes include 2x2 inch and 4x4 inch gauze pads.
3. **Adhesive Tape:** Used for securing gauze or dressings in place. Medical adhesive tape is hypoallergenic.
4. **Antiseptic Wipes or Solution:** For cleaning wounds and preventing infection. Common options include alcohol pads or benzalkonium chloride wipes.
5. **Tweezers and Scissors:** Tweezers are useful for removing splinters or foreign objects. Scissors can be used for cutting tape, gauze, or clothing.
6. **Disposable Gloves:** To protect both the caregiver and the injured person from contamination. Latex-free gloves are essential to accommodate latex allergies.
7. **CPR Face Shield or Mask:** For performing cardiopulmonary resuscitation (CPR) safely.
8. **Instant Cold Packs:** Used to reduce swelling or relieve pain from minor injuries.
9. **Thermometer:** For monitoring body temperature.
10. **Pain Relievers:-** Over-the-counter pain relievers like acetaminophen or ibuprofen.
11. **Elastic Bandage (Ace Bandage):-** Used for supporting injured joints or muscles.
12. **Burn Cream or Gel:-** To treat minor burns and reduce pain.
13. **Emergency Blanket:-** Reflective blankets that help retain body heat in emergencies.
14. **First Aid Manual or Instructions:-** A guide with basic first aid instructions.
15. **Emergency Contact Information:-** Include emergency phone numbers and relevant medical information.
16. **CPR Instructions:-** A step-by-step guide for performing CPR if needed.
17. **Tweezers and Splinter Removers:-** To safely remove splinters or foreign objects from the skin.
18. **Safety Pins:-** For securing bandages or making slings.
19. **Eye Wash or Saline Solution:-** For rinsing eyes in case of chemical exposure or foreign body contamination.
20. **Tourniquet (Optional):-** Only to be used as a last resort for severe bleeding when professional medical help is not available.
21. **Personal Medications (if applicable):-** Any necessary prescription medications or medical supplies specific to individuals in the group.
22. **Scissors with Blunt Ends (for cutting clothing):-** Useful for cutting clothing away to access injuries.



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## 20 Otoscope

### Technical Specification

Diagnostic Otoscope rechargeable set is to be supplied in Leather / hard case preferably HIP (High Impact Plastic) with internal soft cushion material for easy portability and protection.

Light source: Halogen bulb

Speculum adapter to be provided: Yes

Number of sets of different sizes of Ear Specula to be provided along with Otoscope: 4

Removable Otoscope head: Yes

Rotatable lens: Yes

Rechargeable handle: Yes

Provision for variable light intensity: Yes

### CONSTRUCTION/FUNCTIONAL FEATURES

Material of the device body: Medical Grade Stainless Steel

Instrument Head: Matt-black from inside

Fibre optics for Cool Light Transmission: Yes

Magnification: 4x

Wide angle viewing lens allowing instrument under Magnification: Yes

Provision of sealed system for Pneumatic otoscopy with detachable pneumatic bulb: Yes

Voltage Rating of the bulb (Volts)(Min): 2.5

Type of rechargeable battery: Ni-Cd

Capacity of the Battery (mAh): 300

Battery Voltage(Volts): 3.5

Continuous runtime of the battery (Minutes): 200

Charger to be provided along with the device: Yes

Weight (gms): 175 to 450



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