

OFFICE OF THE SUPERINTENDENT
SCB MEDICAL COLLEGE & HOSPITAL, CUTTACK, GOVT. OF ODISHA
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TENDER DOCUMENT

**TENDER FOR SUPPLY & INSTALLATION OF
EQUIPMENT FOR SET-UP OF HUMAN LEUCOCYTE
ANTIGEN (HLA) LABORATORY FOR TRANSPLANT
PATIENT IN TRANSFUSION MEDICINE SCB MCH
CUTTACK**

**Period of availability of tender document
in website :scbmch.in**

17-02-2023 to 10-03-2023

Date & time of Pre-Bid Conference

06-03-2023, 11:30 AM

Last Date & time for Submission of Tender:

15-03-2023, 5:30 PM

Address of Submission of Tender Document:

Office of the Superintendent,
SCB Medical College & Hospital,
Mangalabag, Cuttack-753007, Odisha

Date & time of opening of the Technical Bid:

16-03-2023, 4:00 PM

OFFICE OF THE SUPERINTENDENT
SCB MEDICAL COLLEGE & HOSPITAL, CUTTACK, GOVT. OF ODISHA

SUPPLY OF EQUIPMENT FOR HLA AT TRANSFUSION MEDICINE SCBBMCH
CUTTACK

Sealed tenders as per the terms and conditions contained in this Tender document are invited from eligible bidders (Manufacturer/ Importer/Authorized distributor) for supply of Instrument/ Equipment, the details of which are specified at Schedule of Requirement & Technical Specifications– Section III of the tender document.

This Tender document contains the following:

- Section I – Instructions and information for submission of Tenders
- Section II – Terms and Conditions
- Section III – Schedule of requirement
- Section IV - Technical Specification
- Section V - Formats of the Tender

The deadline for submission of Tender is 15-03-2023, 05:30 PM

The Superintendent, SCB MCH, Cuttack reserves the right to accept and or reject any or all the tenders without assigning any cause or reason thereof. No claim in whatsoever form from any firms for such decision of Superintendent, SCB MCH, Cuttack shall be entertained.

Superintendent, SCB MCH, Cuttack

Section-I

Instructions and information for submission of Tenders

Tenderers as per the eligibility criteria are required to submit their tenders in sealed envelopes as per the instructions given at Clause 5 -FORMATS AND SIGNING OF TENDERS and Clause 6 - SEALING AND MARKING OF TENDERS and must submit before the deadline given at Clause 7- DEADLINE FOR SUBMISSION OF TENDERS of this Section.

The sealed envelope(s) containing the Tender(s) must **be delivered at the address mentioned in the covering letter** within the last date and time for submission of Tenders.

The tenderer may quote for any or all the items mentioned in Section-III.

Eligible Tenderers:

In order to be eligible, the **tenderer**

- Shall submit the required EMD Rs.20, 000/- in favour of Superintendent, SCB MCH payable at Cuttack.
 - Shall be a manufacturer / Importer /Authorized distributor of the manufacturer
 - Shall have Annual Average turnover of minimum **Rs.50,00,000/-**(Rupees fifty lakh) only or more during the financial years 2019-20 to 2021-22) with Audited Balance sheet and profit & loss Account duly certified by authorized Chartered Accountant
 - In case of authorized distributor/Importer, shall have manufacturer/ Importer's authorization (as per format at Format –T6).
 - Should have supplied (as per the schedule quoted) to Govt. organizations, Public Sector undertakings, Govt. Societies during the last three years. Details to be furnished in Format T8 along with Purchase order copies in support of that.
 - Furnish EMD Rs.20,000/- in shape of DD/TDR with tender document pledged in favour of Superintendent SCB Medical college Hospital Cuttack
 - **Tender cost of Rs.1,000/- (Rupees One thousand) only in shape of DD/Money receipt from Accounts**
- Section Users**
- Shall have PAN
 - Shall have GST registration certificate with GSTR 3B & GSTR-I.

FORMAT OF THE TENDER

The tender should be submitted in English and be set out in two main parts

- Part A - Technical Bid
- Part B – Commercial Bid

PART A – TECHNICAL BID

The **Technical BID** should consist of the following documents:

- Checklist – **Format T1**
- Technical Bid Submission Form - (**Format T7**)
- **Tender document cost of Rs.1,000/- (Rupees One thousand) only**
- **Earnest Money Deposit (EMD)Rs.20,000/-**
- Photocopy of the registration certificate of the firm/company
- Photocopy of the GST registration certificate with GSTR 3B & GSTR-I.
- Photocopy of PAN
- Annual Turnover Statement certified by the Chartered Accountant – **Format T5**
- **Photocopies of audited annual statement** of the last three years and the turnover figure should be **highlighted** there.
- Manufacturer's Authorization Certificate (authorized distributor/ importer) – **Format T6**(In case of & Instruments only)
- Details of Technical Specification of the products offered – **Format T7**
- Technical brochures/Leaflets of the product offered (For each items of the ,
- Past Experience in executing similar items during the last three years – (**Format T8**)
- Copy of purchase orders as mentioned in Format –T8
- Copy of Tender document, duly Signed with **seal** by the Tenderer on each page

PART B:PRICE BID

The **Price Bid** should consist of the following documents:

- Price Bid Submission Form on the letterhead of the firm (**Format -P1**)
- Price Formats (Use **Format - P2**)

General Information

1. **Last date and time for submission of Tenders:** On or before **15-03-2023 up to 05:30 PM**

2. **Schedule of Tender Opening**

The tenders received by the office of the Superintendent, SCB MCH, Cuttack, within the deadline for submission of tenders will be opened at the office address mentioned at clause 6.2

The Technical bids shall be opened in the presence of the tenderer/ their duly authorized representatives (who choose to attend the tender opening) at 16-03-2023 on 4:00 PM In the event of the specified date of Tender opening being

declared a holiday for the Purchaser, the Tenders shall be opened at the appointed time and location on the next working day.

The Commercial bids of **only those tenderers** who meet the eligibility criteria after the assessment of its technical bid, will be opened in the presence of the tenderer/their duly authorized representatives (who choose to attend the bid opening). The date of opening of the commercial bid shall be intimated to the technically qualified tenderers.

3. Amendment of Invitation

In case of any discrepancy between the Press Advertisement, other detailed provisions of the tender document and the updated version on the web (up to 15-03-2023 till 05:30 PM), the web-version will prevail. At any time prior to the authority reserves the right to add / modify / delete any portion of this document by issuance of an addendum/corrigendum, which would be published only in the web site: <http://www.scbmch.in> and will be binding on the tenderers. The quantities of the items may increase or decrease considering the need of the users.

4. Period of Validity of Bid

For the purpose of placing the order, the bid shall remain valid for **a period of one year.**

5. Formats and Signing of Tenders

5.1 The Tender shall be neatly typed and shall be signed, by an authorized signatory (ies) on behalf of the Firm. All pages of the Tender, except for un-amended printed literature, shall be initialed by the person or persons signing the Tender.

5.2 The Tender shall contain no interlineations, erasures or over writing. In order to correct error made by the tenderer, all corrections shall be done & initialed by the authorized signatory after striking out the original words / figures completely.

6. Sealing and Marking of Tenders

6.1 The Tenderer shall seal & mark the Tender as follows:

The Tenderer shall seal & mark various parts of the tender as follows:

- a) Technical bid in one envelope super-scribed with words **“Technical Bid for Supply & installation of HLA Equipment’s**
- b) Price bid in one envelope super-scribed with words **“Price Bid for Supply & installation of HLA Equipment’s**
- c) All two envelopes (Technical and Price Bids) shall be sealed in a covering envelope super-scribed with words **“Tender for Supply & installation of HLA Equipments on 15-03-2023 at 5:30 PM”.**

6.2 Every envelope and forwarding letter of various parts of the tender shall be **addressed to:**

**The Superintendent,
SCB Medical College & Hospital,
Mangalabag,
Cuttack-753007, ODISHA**

The name of the firm/company should be mentioned in the bottom left portion of each envelop.

- 6.3 Tenders may be submitted **through Speed post / Registered post / Courier**. Tenders sent through Telex / Telegrams / Fax / Email shall not be acceptable.
- 6.4 The envelopes are not sealed as per para and marked as required above, the office of the Superintendent, SCB MCH, Cuttack shall assume no responsibility for the tender's misplacement or premature opening.
- 6.5 The envelope shall be sealed by signing across all joints & pasting good quality transparent adhesive tape on top of such joints & signatures.
- 6.6 The envelope shall be properly sealed and carry the name and address of the firm/company.

7. Deadline For Submission of Tenders

Tenders will be received by office of the Superintendent, SCB Medical College & Hospital, Cuttack at the address specified above at clause 6.2, till **15-03-2023 up to 05:30 PM**

8. Late Tenders

Any Tender received by office of the Superintendent, SCB Medical College & Hospital, Cuttack after the deadline for submission of Tenders, as per Clause 7 above shall be returned unopened.

SECTION-II

TERMS AND CONDITIONS

1. Scope

This scope of work covers supply & Installation of HLA equipment as per technical specification (as mentioned at Section IV) at the consignee locations (as mentioned at Section III and Annexure -I) and providing services for comprehensive onsite warranty.

The rate of which will be valid for a period of **one year** from the date of finalization of tender. After finalization/approval of the supplier & the rate, purchase order shall be placed by the Superintendent, SCB MCH, Cuttack.

2. Earnest Money Deposit:

(i) The bidders have to submit the EMD Rs.20,000/- in shape of DD/FDR with the technical documents pledged in favour of Superintendent SCB Medical College Hospital Cuttack.

(ii) The EMD will be returned to the unsuccessful bidders after completion of the tender process.

(iii) The EMD will be forfeited if successful bidder fails to execute the order within the stipulated period or violate the terms and condition of the tender.

3. Installation & Demonstration

The purchaser may ask for demonstration of to ascertain the quality/specification as asked for.

4. Price

The unit price quoted should be in Rupees and in the price schedule format P2 mentioned in the tender. All taxes should be clearly stated separately as mentioned in the price schedule.

5. Evaluation and comparison of tenders:

- a. The tenders will be evaluated as per the eligibility criteria, terms & condition and technical specification of the tender.
- b. The price bid of those bidders shall be opened whose technical bid are found to be responsive as per technical specification.
- c. The technical committee may ask for demonstration of the, equipment as a part of technical evaluation.
- e. The eligible and technically qualified firm quoting the lowest price will be selected on the basis of the rates offered.
- f. The GST will be charged as per the guidelines given by the Finance Dept., Govt. of Odisha from time to time. GST (as applicable) will be paid to the supplier

6. Purchase Order

The Purchaser shall be issued to the lowest evaluated responsive bidder by the Superintendent, SCB, MCH, Cuttack as per the requirement.

7. Validity of the Bid

For the purpose of placing the purchase order, the bid shall remain valid for a **period of 12 months.**

8. Performance Security:

Within 7 days from the receipt of the letter of award/purchase order, the successful tenderer should submit a performance security in the shape of DD/BG(**from any Nationalized/ Scheduled Bank and valid for 2 years beyond the warranty period**) of an amount equal to **10% of the purchase order/contract value.** The performance security should be made in favour of the Superintendent, SCB Medical College & Hospital payable at Cuttack. The proceeds of the Performance Security shall be payable to Office of the Superintendent, SCB MCH, Cuttack as compensation for any loss resulting from the firm/Company's failure to fulfill the obligations under the scope of work and terms & conditions of the Purchase Order.

9. Delivery

The supply of the Equipment's (Department of Transfusion Medicine) at the consignee places shall be completed in all respect **within 15days** from the date of issue of purchase order.

10. Delay in Supply

The time schedule for completion of the supply as mentioned as above is very important and the supplier must take utmost care to complete the work within the time specified. If the supply is delayed for any reason for which the Superintendent, SCB MCH, Cuttack is not responsible. If fail to completion order within the stipulated period the committee will decided to take action as applicable.

11. Payment Terms

100% payment will be released after successful supply, Installation & demonstration of full quantity as per purchase order and duly submission of 10% performance security (to cover the warranty period) against submission of bill along with duly signed stock entry certificates from the consignee.

12. Warranty

- 12.1 The supplier shall warrant comprehensively that the equipment's supplied under the contract is new, unused and incorporate all recent improvements in design and materials. The supplier shall further warrant that the goods supplied under the contract shall have no defect arising from design, materials or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods in the conditions prevailing in India.
- 12.2 This comprehensive on-site warranty shall remain valid for **three years** from the date of supply
- 12.3 In case of any unsatisfactory performance of equipment(s) or any claim arising out of this warranty, the purchaser/consignee shall promptly notify the same in writing or over phone or by fax to the supplier.
- 12.4 Upon receipt of such notice/communication, the supplier shall, within 48 hours on a 24(hrs) X 7 (days) X 365 (days) basis, rectify or replace the defective goods or parts thereof, free of cost, at the ultimate destination.

- 12.5 If the supplier, having been notified, fails to rectify or replace the defective goods or parts thereof within 48 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.

13.Spare Part /Spare Equipment

The successful tenderer will stock adequate spare part / spare equipment to provide services during the warranty period so that the equipment can be repaired/replaced within 48 hours.

14. Inspection

The purchaser or its authorized representative may inspect the equipment after its supply to verify that the same is as per the technical specification

15. Training & User Manual

The supplier will provide hands on training to the designated staff of the consignee in his own cost for operating / handling at the time of supply of equipments for HLA

The supplier / firm will provide the user manual/warranty certificate to the consignee at the time of supply.

16. Penalties

If the successful tenderer fails to deposit the required performance security within the time specified or withdraws his tender after acceptance of his tender owing to any other reasons or unable to undertake the contract, then the contract will be cancelled and a penalty of 2% of the order value shall be imposed by the purchaser.

Violating the tender terms and conditions & non supply / supply which is not as per technical specification will disqualify the firm to participate in the tender for a period of 3 (three) years from the date of issue of letter and his performance security deposit will be forfeited and no further purchase order will be placed to that firm for that item.

17. Arbitration

The Superintendent, SCB MCH, Cuttack and the supplier shall make every effort to resolve amicably by direct negotiation on any disagreement or dispute arising between them under or in connection with the work assigned. In case of their failure to resolve the matter will be referred to Superintendent, SCB MCH, Cuttack whose decision will be final and binding on both parties.

The arbitration proceedings shall be held in Cuttack, Odisha

18. Disputes & Legal Jurisdiction

All legal disputes are subject to the jurisdiction of High Court of Odisha.

Section-III
List of equipments of HLA Laboratory

Sl No	Name of the Items	Make	Model
1	Bath Sonicator		
2	Dry Heating Block		
3	Vortex Mixer		
4	Plate Shaker 200 rpm single plate (Mini rotary shaker)		
5	Cryoblock for Taq / Mini cool box		
6	PCR Plate holder tray		
7	Tubes holder (Interlocking Micro Tube Rack)		
8	Multichannel pipette- 5-50 ul range		
9	Multichannel pipette- 30-300 ul range		
10	Single channel pipettes 100-1000 ul		
11	Single channel pipettes 20-200 ul		
12	Single channel pipettes 2-20 ul		
13	Single channel pipettes 0.2-2 ul		
14	Syringe 0.2-50 ul single channel		
15	Syringe 250 ul single channel		
16	Syringe 50ul multi-channel 6		
17	Syringe 250ul multi-channel 6		
18	Laminar hood (Laminar Air Flow)		
19	Micro Centrifuge(14000rcf)		
20	Inverted Microscope		
21	Refrigerator 2-8 Degree 300 lt		
22	Refrigerator -20 to-30 degree 200 lt		
23	Vacuum Manifold		
24	Vacuum Pump		
25	Mini Centrifuge		
26	Thermal Cycler		
27	Spectrophotometer (Nanodrop)		

Section IV

TECHNICAL SPECIFICATION

TENDER FORMATS

Section-IV

Specification of Items for HLA Laboratory

1. SPECIFICATIONS FOR BATH SONICATOR :

Digital Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which create an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently.

Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as carburetors, returning them to almost “like new” condition without damage to delicate parts.

- Inner Tank & Outer body made of Stainless Steel
- Digital RED LED display
- Temperature with timer function
- Ceramic heaters provides improved heating effect
- Drainage and cool fan available in 6L to 25L
- Overheat protector, Cooling fan
- Moisture-proof PCB
- User friendly High-performance transducers.
- Warranty should be 1 year
- Tank Capacity 2.5Lit
- Tank size(mm)- 240x140x100
- Ultrasonic power-100W
- Heating power-100W
- Power Supply -AC 220V / 50 Hz
- Frequency-40kHz
- Time Setting-1-99 min.
- Heating Temp.- 0-80°C

2. SPECIFICATIONS FOR DRY HEATING BLOCK

Dry Bath Incubator is a microprocessor controlled product using advanced thermoelectric technique, high precision of temperature control. It can be widely used in samples cultivation, preservation and reaction DNA amplification, Pre-degeneration of electrophoresis, and solidification.

- LCD (Liquid crystal display) & Touch type Keypad Operation
- Built in Over Temperature Protector
- There are 5 groups of programs can be programmed Independent or combined
- Maximum upto 5 temperature point, temperature setting & continuous operation
- Microprocessor Controls

- Timing Function, 0~99hrs59minutes,range shows on the display screen shows.
- Brushless DC Motor Type with Long Serviceable Life.
- Warranty should be 1 year.
- Temperature Control range: R.T.+ 5! to 100!.
- Temp. Control Accuracy: < +0.5!.
- Heating Time: 15min (25! up to 100!).
- Power: 150W. Power supply: AC 220V / 50Hz.
- Dimension LxWxH (mm): 270 x 190 x 170
-

3. SPECIFICATIONS FOR VORTEX MIXERS

- Designed for mixing liquids in Schools, Laboratories & Factories
- Touch/ Continuous Operation mode Selection through bi-directional Switch
- Speed Regulation through knob provided on the control panel
- Interchangeable mixing heads for use with variety of tubes
- Supplied with all interchangeable mixing heads
- Warranty should be 1 year
- Supply 220/240 Volts, 50 Hz

Power (W)	32
Shaking Movement	Orbital
Orbital Diameter (mm)	4
Motor Type	Shaded-Pole Motor
Permissible ON time	100% power 30mins
Speed range (rpm)	0-2500
Run Type	Continuous / touch operation
Dimensions (mm)	185 x 150 x 165
Weight (kg)	2.8
Protection Class acc. To DIN 60529	IP 21

4. SPECIFICATIONS OF MINI ROTARY SHAKER

For gentle mixing of fluids in test tubes & glass vessels of different capacities.

- Warranty should be 1 year
- Power Supply 220-240 V, 50Hz, Single phase

Speed Range	rpm	50 to 400
Platform Size	inches	12 x 12
Flasks Capacity [max)		5 x 500 ml
Overall Dimensions	W x D x H (mm)	320 x 415 x 130
Speed Indicator		Digital
Digital Count down Timer	minutes	99
Shaking Orbit	mm	10

5. Specifications of Cryoblock for Tag / Mini Cooler box

Keeps your reagents and enzymes cool, protects samples from temperature fluctuations. Freeze for 24 hours at -20 °C to -25 °C before use.

Capacity: 1.5

Places: 12

6. Specifications of PCR Rack with Cover

Material: PP Autoclavable. Convenient Polypropylene rack for 0.2 ml PCR tubes strips and plates. This rack is stackable with or without lid. Category: Boxes and Racks-96 well.

7. Specifications of Tubes holder 3 Step (Interlocking Micro Tube Rack

Autoclavable, polypropylene inter connected racks .Arranged in 3 levels. Lowest level with 24 places, to hold 0.2 ml tubes. Middle level with 14 wells to hold 0.5 ml tubes and top level with 12 wells to hold 1.5 ml tubes

Size: 24x0.2 mL, 14x0.5 mL and 12x1.5 mL tubes

8-13 Specifications of Multichannel Pipettes

- Warranty should be 1 year
- It should be Rugged and Durable
- Must be Fully Autoclavable
- Should have easy Maintenance
- Should have Super Blow-out facility
- Should have Secure volume lock
- Should not have the risk of loose or leaking tips

Number of Channels	Volume	Quantity
8	5 to 50 µL	1
8	30 to 300 µL	1
1	100 to 1000 µL	3
1	20 to 200 µL	4
1	2 to 20 µL	4
1	0.2 to 2 µL	1

14-17 Specifications of Different Syringe and Dispenser

Syringe Dispenser,

Qty required: 2

The VDRL Antigen Syringe is designed to simplify the dispensing steps for VDRL antigen testing. The test is a microscopic nontreponemal flocculation test to be used for the detection of regain.

Product Specifications

Compatible with 700 and 1700 series syringes in the following volumes: 10 µL, 25 µL, 50 µL, 100 µL, 250 µL, 500 µL, 1mL, and 2.5 mL

Split/split less injection consists of a heated chamber with a glass liner into which the sample is injected through the septum. A micro syringe is used to inject the sample through a rubber septum into a flash vaporizer chamber at the head of the column.

250 µL Gastight Syringe, Cemented Needle, 22s gauge, 2 in. point style 2

Product Specifications 250 µL, Qty required: 1

Volume 250 µL

Syringe Type Gastight

Syringe Series 1700

Termination Luer Tip Cemented Needle (LTN)

Needle Cemented Needle

Gauge 22s gauge

Point Style 2

Needle Length 2 inch (51 mm)

Fluid Path SST, Borosilicate glass, PTFE

Autoclavable No
Gas Sterilizable Yes
Pressure 500 psig (34.5 bar)
Maximum Temperature 50°C / 122°F
Minimum Temperature 10°C / 50°F
Barrel Inner Diameter 0.091 inches (2.30 mm)
Barrel Outer Diameter 0.305 inches (7.75 mm)
Needle Inner Diameter 0.0059 inches (0.15 mm)
Needle Outer Diameter 0.0283 inches (0.72 mm)
Std Needle Dead Volume 1.13 µL
Sales Quantity 1 syringe per pack

50 µL Microliter Syringe, Cemented Needle, 22s gauge, 2 in, point style 2

Product Specifications 50 µL, Qnty required: 1

Volume 50 µL
Syringe Type Microliter
Syringe Series 700
Termination Cemented Needle (N)
Needle Cemented Needle
Gauge 22s gauge
Point Style 2
Needle Length 2 inch (51 mm)
Fluid Path SST, borosilicate glass
Autoclavable No
Gas Sterilizable Yes
Pressure 2000 psig (137.9 bar)
Maximum Temperature 50°C / 122°F
Minimum Temperature 10°C / 50°F
Barrel Inner Diameter 0.041 inches (1.03 mm)
Barrel Outer Diameter 0.305 inches (7.75 mm)
Needle Inner Diameter 0.0059 inches (0.15 mm)
Needle Outer Diameter 0.0283 inches (0.72 mm) Std
Needle Dead Volume 1.13 µL
Sales Quantity 1 syringe per pack

250 µL, Terasaki Multi-Channel Dispenser

Qnty required: 1

Product Specifications

Volume 250 µL
Syringe Type Gastight
Syringe Series 1700
Fluid Path Borosilicate glass, PTFE
Sales Quantity 1 dispenser included

18. Specifications of Laminar hood (Laminar Air Flow)

- PCR Cabinet, should be equipped with HEPA-filtered laminar flow, airflow monitoring, UV lamp & pre filter change alarm to provide a sterile environment for reagent and sample preparation during PCR master mix preparation
- Should be Microprocessor Controller
- Should have Displays showing basic parameters such as airflow on one screen
- Should have alarms to notify users to change filters
- Should have high Performance Fan System
- Should be permanently lubricated, centrifugal motor/blowers with external rotor designs. Superior Air Cleanliness
- Should provide ISO Class 3 air cleanliness within the work zone as per ISO 14644.1 Proven Product Protection
- Should be vertical laminar airflow with HEPA-filtration, >99.99% at 0.3 microns.
- UV Decontamination System; UV lamp (253.7 nm); UV timer adjustable up to 18 hours. Default value at 60 minutes.
- Should have UV-filtering polycarbonate front and glass sides shield the user from accidental UV exposure.
- Should have Antimicrobial Powder Coating
- Size: 4ft./1.2m,
- Power: 220-230 VAC, 50 Hz
- Warranty: 1 year

19. Specification of Refrigerated Bench Top Centrifuge with Swing out Buckets (Micro Centrifuge)

- Should have automatic rotor detection, check of presence of accessories and compatibility with maximum speed
- Should have Safety speed limiter function
- Should have 35 storable programs
- Should have setting of speed in RPM and RCF
- Should have short Spin function and pre-cool
- Function for automatic OFF the compressor after 8 hours of non-use
- Should have Temperature range from -9°C to 40°C
- Continuous cooling of the sample even after the run with Dynamic compressor control for optimized cooling
- Build-in condensation drain to eliminate water accumulation which prevents corrosion
- Should have Controlled by microprocessor and backlit color LCD display
- Should have Digital adjustment of Acceleration & breaking ramp: 10/10
- Centrifuge timer should start after the set RPM reaches
- Short spin key with selectable rotational speed
- Values can be changed during centrifugation
- Should have Stainless steel internal bowl
- Access height of the Centrifuge should not more than 29cm for easy access to the chamber
- Should have Imbalance detection system with automatic functioning stop to avoid accidents
- Should have Automatic locking system of the lid

- Should have Safety opening of the lid in case of absence of electric power
- Should have Brushless motor maintenance free and no carbon deposits
- All the rotors, lids and adaptors should be autoclavable.
- Rotors must be metal (not plastic rotor & lid) for better heat transfer.

Features	
Maximum Capacity	4x 250 ml (Swing cut) and 6x 85ml to 100 ml (fixed angle)
Maximum speed	5000 rpm for Swing cut rotor and 14000 rpm for fixed angle
Timer	1-99min with continuous run mode
Data and time	Yes
Acceleration levels	1 to 10 (l=min and 10=max)
Deceleration levels	1 to 10 (l=min and 10=max)
Temperature range	-9°C to 40°C
Pre-cool function	Yes
Display temperature	Yes
Spin function	Yes
Program	35 programs
Indication of rotor	Yes
Noise	54 db(A)
External dimension W x D x H weight	730 x 6400 x 330 mm/ 70 kg to 80 Kg
Recommended voltage stabilizer	3 KVA Servo Voltage Stabilizer

Following adopters should be provided with the products

1. Swing out rotor with 4x100ml metal Buckets with Bio safety Cap. Adaptor for 15 & 50ml conical tubes.
2. Swing out Plate rotor for 2sets of 5nos of MTP, 2 sets of 4nos Cell Culture plates, 2 sets of 2nos DWP etc.

20. Specifications of Inverted Microscope

1. Inverted microscope frame with minimum 5 watt LED to maintain constant color temperature through all states of intensity with auto cut off function to save the energy.
2. Metal body with scratch resistance stages, Universal slide holders and object guide must be supplied with the microscope.
3. Long working distance condenser 80mm for the larger volume cell container must be quoted; longer working distance will be given as preference.
4. Object for microscope with integrated phase slider.
 - (a) 4X Plan Objective
 - (b) 10X Plan Objective NA 0.2
 - (c) 20X Plan Objective NA 0.3
 - (d) 40X Plan Objective NA 0.5
5. 4 Position Objective Holder
6. 10X Eyepiece with FN 20
7. **Camera Attachment** : 5 Megapixel HD Camera frame rate 30 fps with, pixel size 2.35 x 3.35 μ l, sensor grade CMOS, Gain : 1 X-12X, Color Depth 24 bit.
8. Image capture and analysis software, Basic analysis like linear measurement and Area.

9. The Microscope, camera and software should be supplied from the same manufacturer for better compatibility.
10. **Computer System** : CPU Corei5, RAM-4GB, HDD1TB, USF2, OS WIN7/10 prof 64 bit, external graphics and 1GB, wide screen 21" or higher and 1 KVA offline UPS.

21. Specifications of Laboratory Refrigerator 300 lt Range 2⁰- 8⁰ _C

Should be glass door, stored martial should be visible from outside

Floor Based, Vertical type refrigerators

Outer body Stainless Steel

Capacity: Min 300 liters

Cooling Type: Static

Temperature Range: 2 to 8 d C

No of Door:1 or more

Trays / Shelves: Min 5 (adjustable)

Power input: 220 – 240V (50-60Hz)

Warranty : 1 Year

22. Specifications of Laboratory Refrigerator 200lt Range -20⁰ to -30⁰ C

Floor Based, Vertical type refrigerators

Outer and inner body Stainless Steel

Capacity: Min 200 liters

Temperature Range: -20 to -30 d C

No of Door: 1 or more

Trays / Shelves: Min 3

Power input: 220 – 240V (50-60Hz)

Warranty : 1 Year

23. Specifications of Vacuum Manifold;

Qty Required: 1

Used in wash technique, reduces total hands-on time, operators variation, and specimen confirmation. Use in Antibody kits protocol.

Components includes manifold base, standard ring with gaskets, support grid, all tubing, valves and pressure gauge

Applications: Application 96-well plate Vacuum Manifold for vacuum filtration.

Dimensions: Height 66 mm (with standard ring), 94 mm (with deep well ring)

Materials Information

Device Material Base: HDPE

Standard well ring: nylon

Deep well ring: HDPE

Gaskets: EPDM

Tubing: FEP-lined

Support grid: Stainless steel

On/Off valve: polypropylene w/ EPDM seal

Vacuum control valve: Brass socket, steel case

Vacuum gauge: Steel

Warranty 1 year

24. Specifications of Vacuum Pump;

Qty Required : 1

Memory Sticks: 1

Weight: 3 Kgs

Products Dimension: 32X25X15cms

Handle should be attached on top to carry out easily

Power input: 220-240V; 50Hz

Warranty 1 year

25. SPECIFICATIONS OF MINI CENTRIFUGE (QUANTITY -2NO)

- Microprocessor controlled Micro Centrifuge
- Large back-lit LGj display shows multiple parameters at a time
- Brushless DC motor maintenance free, delivers better power to weight ratio and fit for extended runs
- Intuitive simple interface for quick and convenient setting
- Timer: 15 sec to 99 minutes with continuous mode
- SOFT brake to protect sensitive samples
- Short- Spin operation
- Centrifuge height with lid open should be very less (for easy access to chamber)
- Extremely compact footprint saves valuable bench space- suitable for use infume hoods or cold rooms
- Acceleration and deceleration in 13 seconds
- Unique airflow design- ensures lesser heat generation and lesser noise
- Rotor, inner centrifuge lid and lid latch are made of metal for maximum operational safety
- Soft touch lid closure for ergonomic lid locking
- Automatic lid open at end of the run to prevent sample warming
- Must follow safety standards set by IEC 1010-2-020
- Settable RPM/RCF
- Warranty should be 1 year

Max Rotor Capacity	12 x 1.5/2ml tube
Maximum Speed RPM/RCF (g)	14500 rpm/ 14100x g
Display	Large Backlit LCD display
Rotors:	Autoclavable rotors
Noise Level	≤ 52 dB (A)
Motor Type	(BLDC) Brushless DC motor
Timer setting	15 sec to 99 minutes with continuous mode
Dimensions (WxDxH) in mm	230 x 250 x 130 mm
Power requirement	85 Watt
Rotors and Adaptors (included in standard pack)	12 x 1.5/2ml tube position rotor
	Adaptors for 0.2 ml micro tubes
	Adaptors for 0.4/0.5 ml micro tubes
	PCR Strip Rotor (2 nos. of 8 x 0.2 ml PCR strips)

26. Thermal Cycler specification :

Thermal Cycler should deliver high-end performance and proven reliability with advanced temperature control technology and connectivity.

- Ramp rate should be 6.0°C/sec, quiet fan, and ergonomic soft-close lid
- Should provide precise control over 6 independent temperature zones for PCR optimization on the 96-well block option
- Fleet control-compatible-manage multiple instruments, users, and methods securely-With Control Software

Block Format:	96 well, 0.2ml alloy block
Max. block ramp rate	6.0°C/sec
Max. sample ramp rate	4.4°C/sec
Temperature accuracy	±0.25°C (35-99.9°C)
Temperature range	0-100.0°C
Temperature uniformity	<0.5°C (30 sec after reaching 95°C)
Dimensions (H x W x D)	21.7 x 24.5 x 46.5 cm (8.5 x 9.6 x 18.3 in.)
Weight	12.0 kg (26.5 lb)
PCR volume range	10-100 µL
Instrument memory	USB port and 16 GB onboard memory; onboard capacity>1,000 protocols
Display interface	8 in. colour thin-film transistor (TFT) LCD
Power	100-240 V, 50-60 Hz, max. 700 W
Blocks range	30°C range across block, 6 temperature zones (upto 10°C zone-to-zone)

27. Specifications of Spectrophotometer :

	Specification
Absorbance Accuracy	0.03
Absorbance Range	0 to 30 A
Certifications/Compliance	UI/CSA and CE
No. of Samples	local Control Only
Concentration	1500 ng/µl (dsDNA); 45 mg/ml (BSA)
Connections	USB
Depth (Metric)	11.5 cm
Detection Limits	0.12 mg/ml (BSA), 4 ng/µl (dsDNA)
Detector Type	Silicon Photodiode
Display	LCD
Light Source	LED
Type	UV-Vis Spectrophotometer with Printer
Voltage	6V
Wavelength Range	260 to 280 nm
Footprint	16 x 11.5 cm
For Use With (Application)	Nucleic Acid Quantification, DNA Quantification, RNA Quantification, Protein Quantification
Includes	Printer

Material	303 stainless steel; quartz fibre
Measurement Time	<5 sec.
Min. Data Interval	4 ng/μl, (dsDNA); 45 mg/ml (BSA)
No. of Samples	1
Path length	0.5mm
Resolution	<8nm
Sample Volume (Metric)	1 to 2 μl
Spectral Resolution	8.0nm
Volume (Metric)	1 μl
Warranty	1 year parts and labour
Wattage	18W
Wavelength Repeatability	0.002 (10 individual measurements at 0.74 Abs)
Weight (Metric)	0.8 kg
Width (Metric)	16cm
Unit Size	Each

Format T1

CHECK LIST

(To be submitted in Cover A- Technical Bid)

Note: The documents have to be arranged serially as per the order mentioned in the check list

All the documents furnished should be page numbered and signed by the authorized signatory of the firm/company with company/firm seal.

DOCUMENTS : SUBMITTED OR NOT (Please put ✓ in the respective box)

Sl.	Details	Provided or not	If provided mention page No.(s)
TECHNICAL BID			
1.	Earnest Money Rs.20,000/- Deposit in shape of DD/FDR	Yes / No	
2.	Tender Paper cost DD/Money receipt from Accounts section Users	Yes / No	
3.	Format –T2 duly signed by the authorized signatory with seal	Yes / No	
4.	Format –T3 duly signed by the authorized signatory with seal	Yes / No	
5.	Photocopy of the Registration certificate of the firm (Bidder)	Yes / No	
6.	Photocopy of the GST registration with GSTR 3B & GSTR-I.	Yes / No	
7.	Photocopy of PAN	Yes / No	
8.	Format –T4 duly signed by the authorized signatory with seal	Yes / No	
9.	Format–T5 (Annual Turnover Statement for preceding 3 years signed by Auditor / CA) duly signed by the authorized signatory with seal with Audited Balance sheet and profit & loss Account duly certified by authorized Chartered Accountant	Yes / No	
10.	Photocopies of audited annual statement of the last three years and the turnover figure should be highlighted there.	Yes / No	
11.	Format –T6 (Manufacturing Authorization from the Manufacturer/Authorized Importer–duly signed by the authorized signatory with seal in case the bidder is the authorized distributor	Yes / No	
12.	Copy of Import license (In case the bidder is Importer)	Yes / No	
13.	Format –T7 (Details of technical specification of the offered product) duly signed by the authorized signatory with seal	Yes / No	
14.	Technical Brochures/Leaflets of the offered product	Yes / No	
15.	Format –T8 (Performance Statement) of the bidder towards supply of similar items during the last three years	Yes / No	

16.	Photocopies of purchase order in support of the information provided in Format – T8.	Yes / No	
17.	ISO Certificate of the Manufacturer(As per Technical Specification)	Yes / No	
18.	CE,USDA,IEC, Certificate of the Products (as per technical specification)	Yes / No	
19.	Format –T8 (Performance Statement) of the bidder towards supply of similar items during the last three years	Yes / No	
20.	Photocopies of purchase order in support of the information provided in Format – T8.	Yes / No	
21.	Copy of original / downloaded Tender and schedules, duly signed by the authorized signatory	Yes / No	
22.	Cover ‘B’ – Price Bid with price schedule in Separate Envelop (Item Wise)	Yes / No	

Format T2

(To be furnished in the Technical Bid)

TECHNICAL TENDER SUBMISSION FORM (On the letterhead of the Organization)

[Location, Date]

To

**Office Of the Superintendent,
SCB MCH, Mangalabag, Cuttack-751007**

Dear Sir,

We, the undersigned do hereby offer to Supply the HLA Laboratory equipment. We are submitting our bids, which include this Technical Bid, and a Commercial Bid sealed under a separate envelope.

We accept all the tender terms & conditions of the tender under reference. We hereby declare that all the information and statements made in this bid are true and accept that any of our misrepresentations contained in it may lead to our disqualification.

Our proposal shall be binding upon us for a period for a period of one year, subject to the modifications resulting from Contract negotiations you may subsequently carry out with us to accept our tender. We undertake to carry out the work as per the terms and conditions of this tender document.

We hereby declare that my firm/company has not been debarred / black listed by any Government / Semi Government organizations. I further certify that I am the competent authority in my firm/company authorized to make this declaration.

I/We hereby agree that the Tender Inviting Authority can forfeit the Performance Security Deposit and blacklist me/us for a period of 3 years if any information furnished by us proved to be false at the time of inspection / verification and not complying with the Tender terms & conditions.

We understand you are not bound to accept any bid you receive.

Yours sincerely,

Authorized Signatory [*In full and initials*]: _____

Name and Title of Signatory: _____

Name of Organization: _____

Address: _____

(Organization Seal)

Format T3

(To be furnished in the Technical Bid)
(On the letterhead of the Organization)

DETAILS OF THE BIDDER**DETAILS OF THE TENDERER & LOCAL CONTACT PERSON**

	Corporate Office (The address in which the purchase orders and payment details will be communicated)	Local Contact Person / Branch Office / Zonal Office / Service Centre if any, in Odisha.
Name & Full Address		
Telephone Nos., landline		
Mobile		
Fax		
E – Mail		
Date of Inception	(Copy of Certificate of incorporation of Manufacturer)	
Name of the issuing authority		
Import License (in case of Importer only)	(Furnish photocopy of Import License)	
GST validity	(Furnish photocopy of GST)	
PAN	(Furnish photocopy of GST)	
Details of the Service Centre Facilities in Odisha		

Signature of the Tenderer :
with seal
Date :
Official Seal :

	<i>Registration certificate / Certificate of Incorporation of the firm (furnish the copy)</i>				
	<i>Bank Details of the Bidder: The bidders have to furnish the Bank Details as mentioned below</i> a. Name of the Bank : b. Name of the Account & Full address of the : Branch concerned c. Account no. of the : bidder d. IFS Code of the : Bank				
<i>Date:</i>		<i>Office Seal</i>		<i>Signature of the bidder / Authorized signatory</i>	

Format T4

(To be furnished in the Technical Bid)

DECLARATION / UNDERTAKING
(in stamp paper)

I / We _____
having _____ My _____ /
our _____
_____office at _____ do
hereby declare that I / We will supply the ordered items after becoming lowest
responsive bidder as per tender terms, conditions, specification and conditions as
laid down in the purchase order.

I/We declare that, the Tender Inviting Authority **can blacklist me/us for a
period of 5 years** if we withdraw bid after opening of price bid and / or approval
of rate contract or unable to supply ordered items at approved rate within the
stipulated time period.

Signature of the bidder :

Name:

Mobile No.:

Date :

Name & Address of the Firm: **Affidavit
before Executive Magistrate.**

(To be furnished with the Technical bid)

ANNUAL TURN OVER STATEMENT

The Annual Turnover for the last three financial years of M/s_____ are given below and certified that the statement is true and correct.

<i>Sl.No.</i>	<i>Year</i>	<i>Turnover (in Rs. Lakhs)</i>
1.	2019 - 2020	-
2.	2020-2021	-
3.	2021-2022	

Average Annual Turnover (for the above three years) in **(Rs.)**_____

Date:

Place:

Signature of Auditor/
Chartered Accountant
(Name in Capital)

Seal

Registration No. of Firm

Note:

- To be issued in the **letter head** of the Auditor/Chartered Accountant mentioning the **Membership no.***
- This turnover statement should also be supported by **copies of audited annual statement** of the last three years and the turnover figure should be **highlighted** there.

Format – T6

(To be furnished with the Technical bid)

MANUFACTURER/ AUTHORIZED IMPORTER'S AUTHORISATION

FORMAT

(In case the bidder is not the Manufacturer)

(For Items :)

To

**The Superintendent
SCB MCH, Mangalabag,
Cuttack-751007**

Ref: Tender No. _____ Dated _____ for _____.

Dear Sir/ Madam

We, ----- are the manufacturer/Authorized Importer of -----
----- (name of equipment(s) and have the manufacturing factory at

1. Messrs ----- (name and address of the agent) is our authorized distributor for sale and service of ----- (name of equipment(s))
2. We also extend our full warranty (**3 year comprehensive warranty**) as required by the purchaser
3. We undertake that we have adequate infrastructure and spare part support to carry out the warranty.

Yours faithfully,

(Signature with date, name and designation)

For and on behalf of Messrs -----

(Name & address of the manufacturers)

Seal

Note :

1. This letter should be on the **letterhead** of the **manufacturer** and should be signed by a person having the power of attorney to legally bind the manufacturer.
2. Original letter shall be attached to the technical bid.

Format – T7

(To be furnished with the Technical bid)
Technical Compliance Statement

DETAILS OF TECHNICAL SPECIFICATION OF THE PRODUCT (S) OFFERED BY THE BIDDER

Sl. No.	Item Name	Make	Model Name	Country of Origin	Detail Specification of the product(s) offered* (Pl. Describe the detail specification of the product offered) – Para wise compliance to the technical specification asked for.	***Page no. of the Catalogue / Leaflet where Para wise compliance information as per technical specification is available
1						
2						
3						
4						

(Use separate sheets if the space provided is not sufficient)

* **Leaflets/Technical Brochures** of the product offered (for **each item quoted**) must be attached in support of the information provided above.

*** It is mandatory to mention the page no(s) in the format as mentioned above.

Authorized Signatory [*In full and initials*]: _____

Name and Title of Signatory: _____

(Organization Seal)

Format – T 8

(To be furnished with the Technical bid)
Performance Statement for supply of Similar Items
(for a period of last three years)
(Separately for each equipment)

Name of the Firm _____

* Order place d by (Name of the Organization)	Name of the Equipment	Order No. and date	Quantity of ordered equipment	Value of Purchase order (Rs.)	Date of completion of the delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee if any)

* Note :Please furnish the **purchase order /Contract copies** of the supplies executed serially in support of the information mentioned above.

Authorized Signatory [*In full and initials*]: _____

Name and Title of Signatory: _____

(Organization Seal)

Section-V

TENDER FORMATS

PRICE BID

(Separate Price bids as per Schedule)

=====

Office of the Superintendent,
SCB MCH, Mangalabag, Cuttack-753007

FORMAT – P1

(To be furnished in the Commercial Bid)

PRICE BID SUBMISSION FORM

(On the **letterhead** of the organization)

[Location, Date]

To

**Office of the Superintendent,
SCB MCH, Mangalabag, Cuttack-753007**

Dear Sir,

We, the undersigned do hereby offer to Supply the HLA Laboratory equipment/Instruments in accordance with your Tender referenced above and our Technical Bid.

We hereby declare that if awarded the contract, our Commercial bid shall be binding upon us for a period of one year rate contract from the date of award of contract, subject to the modifications resulting from Contract negotiations you may subsequently carry out with us to accept our proposal.

We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

Authorized Signatory [*In full and initials*]: _____

Name and Title of Signatory: _____

(Organization Seal)

(To be furnished in the Price Bid)
On the **letterhead** of the organization)

PRICE SCHEDULE
(Use this format for –

Whether GST Registration in Odisha, i.e. GST paid to Government of Odisha: Yes / No If Yes, furnish the copy of GST certificate

Name of the Equipment	Make & Model No.	Unit Price of the Equipment with all accessories (as mentioned in the technical specification) which includes excise duty / customs duty, packing, insurance, forwarding / transportation(to the consignee places), training with comprehensive onsite warranty (as mentioned in technical specification) but excludes GST	Cost of Turnkey if any (all accessories for installation & commissioning including GST for turnkey in Rs. (Door delivery & installation))	Total Cost of the Item (Unit Price with Turnkey if any) (Exclusive of GST)	GST (if any) on & above the basic unit price mentioned in (3) (GST the % of tax& it's value in Rs.)
		Cost in Rs. (both in words & figures)			
1	2	3	4	5=(3+4)	6
			GST(%) :		GST (%) :

Note : Use separate Price Formats for each item quoted and sealed them in separate envelopes with mention of “Name of Item”. All these envelops should be sealed in another outer envelope and super scribed as “Price Bid”.

Authorized Signatory [In full and initials]: _____

Name and Title of Signatory: _____

(Organization Seal)