Technical Specifications for equipment for Laboratories under IDSP 2018-2019

Technical Specifications for Water Bath:

1. The temperature should be controlled by the microprocessor based digital temperature controller with LED display along with provision for manual thermometer recording.
2. button to set nominal Value in 0.1^{0}c
   Temperature range 5^{0}C above ambient room temperature to 100^{0}C; External WXDXH approx. 500x250x300mm
3. Bath (inner chamber) capacity app.20litres , Temp accuracy -/+0.1^{0}c
4. The body of the equipment should be made up of material which is rust free from both inside & outside. The inner body of the equipment should be made up of stainless steel and the outer body of the equipment should have a powder coated paint finish.
5. The equipment should be ISO 13489 and CE (confirmite European) and/or US(FDA) certified.
6. Leak proof drainage system to clean the inner chamber.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive AnnualMaintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in Englishto be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from themanufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Specifications for equipment for Laboratories under IDSP 2018-2019

Technical Specifications for Incubator:

1. The temperature should be controlled by the microprocessor based digital temperature controller with LED display along with provision for manual thermometer recording.
2. Inner chamber capacity: 120 L
3. Temperature range :ambient to 80^0c
4. Interior chamber: stainless steel for easy cleaning and decontamination, rust free.
5. Digital display of temperature and time.
6. Timer: 1 minute to 100 hours and hold position.
7. Heating and natural convection for homogenous temperaturedistribution.
8. Temp. Accuracy +/-1^0c.
9. Inner chamber should have transparent, glass/fiber door for the observation.
10. Minimum two adjustable shelves.
11. Power230+/- 10V;50 Hz
12. The equipment should be ISO 13489 and CE (confirmite European) and/or US(FDA) certified.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Specifications for equipment for Laboratories under IDSP 2018-2019

Technical Specifications for BOD Incubator:

1. The temperature should be controlled by the microprocessor based digital temperature controller with LED display along with provision for manual thermometer recording.
2. Inner chamber capacity: 6 cubic feet
3. Temperature range : +5°c to 80°c
4. Interior chamber: stainless steel for easy cleaning and decontamination, rust free.
5. The gap between inner and outer chamber should be filled with high grade glass wool/PUF insulation to avoid thermal loss
6. Digital display of temperature and time.
7. Timer: 1 minute to 100 hours and hold position.
8. Heating and natural convection for homogenous temperature distribution.
9. Temp. Accuracy +/-1°c.
10. Inner chamber should have transparent, glass/fiber door for the observation.
11. Minimum two adjustable shelves.
12. Power230+/- 10V;50 Hz
13. The equipment should be ISO 13489 and CE (confirmite European) and/or US(FDA) certified.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Specifications for equipments for Laboratories under IDSP 2018-2019

Technical Specifications for Binocular Microscope with oil immersion objective

1. Viewing Head: Sliding Binocular Head Inclined at 30° To 45°, 360° Rotatable
2. Eyepiece: Wide Field Eyepiece WF10× / 15x / 18x
3. Objective: Achromatic parafocal Objective 4×, 10×, 40×, 100×
4. Nosepiece: Quadruple Nosepiece
5. Stage: Double Layer Mechanical Stage 135 to 140×130 - 140mm
6. Condenser: Abbe NA1.25 with Iris Diaphragm & Filter
7. Illumination: Koehler illumination, Built-in Illumination, LED Lamp.
8. Filter: Blue Filter
9. Must provide following Accessories:
   - LED Lamp
   - Vinyl Cover
   - Cleaning brush
10. Operating manual
11. ISO 13489 and / Confrmite European / US FDA certified
12. Should provide 3 years warranty & quote for 7 years CAMC.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Technical Specifications for ELISA Reader/ System:

A)Elisa Reader with built in printer and digital interface along with desktop computer and external printer

1. Optical System:
   - Digital light control
   - 8/12 measurement channels plus 1 reference.
   - Single and dual wavelength measurement with facilely for kinetic measurement.
   - 8s maximum measurement time.
   - Measurement range 0.000-3.500abs (400-700nm).
   - Indication range 0-2.999 abs.
   - Accuracy (0.000-1.000 abs) +/- 2% and +/- 0.005 abs.
   - Resolution 0.001 abs
   - Grating/ inbuilt (tunable) filters: narrow band interferences
   - Essential 405 450 492 and 620 nm.
   - The Elisa reader should have the option for 550 & 690nm.
2. Software:
   - Storage of immediately preceding measurement.
   - At least 100 user programmable tests permanently stored.
   - Time programmable before each measurements
   - Agitation programmable before each reading.
   - Bidirectional printer interface.

3. Measurements modes:
   - Plate shaking mode for sample mixing (selectable speed and time)
   - Flexible blank mode setting.
   - Matrix modes: absorbance of each well in even numbered subtracted from those of odd numbered columns.
   - Curve fit modes: LIN/LIN.LIN/LOG.LOG/LOG or auto curve transformation with ability to add the standard curve; 8 to 12 way string orientation of kinetic modes.
   - Table of optical densities, delta DD, graphic, Reaction rate/ v- Max.

4. Other:
   - Adjustable for different micro plate geometrics, the reader should be capable to read U, V and flat types of microtitre wells.
   - Halogen lamp 20-40 W with pre- failure warning 16 digit alphanumeric florescent display.
   - Membrane keyboard.
   - 3-8 standards in single or duplicate wells.
   - Must be supplied with an Acrylic dust proof cover cabinet with locking device.

5. Supply:
   - 230 V+/- 10 V, 50 Hz AC single phase UPS with minimum two (2) hours backup with maintenance free battery.

6. Accessories:

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- Halogen lamps –3 nos.
- Thermal print paper – 10 nos.
- Dust cover and
- Set of pipettes consisting ofautoclavable single channel variable volume color pipettes 0.5-10ul, 5-50ul, 20-200ul, and 100-1000ul.
- 8 channel fully autoclavable, variable volume multi-channel pipettes 5-50ul, and 50-300ul
- Pipettes should offer easy in lab calibration, quick ejection, click volume setting and high accuracy and precision.
- Standards for micro pipettes - ISO8655 and ISO17025

7. Calibration – verification plate should be supplied with the ELISA reader. A calibration certificate should be provided.

8. Equipment should be supplied with computer interfacing and a compatible external printer.

B) ELISA Plate washer(Automatic)

1. General:Auto strip washer for all 96 well plates 1 X 8 Strips / 1 x 12 Strips
   a. Dispensable volume 25-300ul. Soaking time 1-600 sec.
   b. Aerosol shield for user safety.
2. Supply:230 V+/- 10 v, 50 Hz
3. Accessories: 8/12 channel manifold, all tubing sets, wash / rinse waste bottles, maintenance kit, vacuum filter.
4. Adjustable for different micro plate geometrics, the washer should be capable to wash U, V and flat types of microtitre wells.

Operational manual should be provided

Standards: The equipment should be ISO 13489 and CE (confirmite European) and/or US(FDA) certified.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Specifications for equipments for Laboratories under IDSP 2018-2019

Technical Specifications for Micro pipettes

Micro pipettes: single channel variable volume

A. 10-100µl
B. 100-1000µl.

1. Suitable for all brands of tips
2. Light weight and ergonomic design for user comfort
3. Made of high grade plastics with a durable tiptone made up of PVDF plastic
4. It should offer high accuracy and precision as per ISO 8655 and ISO 17025.
5. Easy in laboratory recalibration and maintenance covering or meeting the following criteria
   a. 10-100 µl: increment of 0.2 µl and precision (CV%) 1.0 - 0.2
   b. 100-1000 µl: increment of 1 µl and precision (CV%) 0.6-0.2
6. With tips ejector mechanism
7. Made of corrosion proof material.
8. Fully autoclavable at 121°c.
9. Supplied with full documentation, warranties and certificates.
10. Confirming to the Standards for micro pipettes - ISO8655 and ISO17025

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Technical Specifications DEEP FREEZER (-20^0 C)

1. General:
   Vertical type with twin door and adjustable shelves.
   Capacity: 380 to 450 liters.
   Temperature : -20^0 C
   Accuracy +/- 1^0 C.
   Must be able to perform at an ambient temperature upto40^0 C, user friendly, non CFC refrigerant.
   Body is mounted on a sturdy angle iron frame and is mounted on castor wheels.
2. Temperature range:
   For recording temperature- tolerance limit -8^{0}C to -20^{0}C.
3. Power supply:
   230+/- 10 volts; 50 Hz.
4. Voltage stabilizer:
   Voltage regulator of appropriate rating to be included to cope with 160-260V.
   Microprocessor control, digital display with battery back up and alarm should be there
5. The equipment should be CE (ConfirmateEupropean)/US FDA and ISO13489 certificate.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Specifications for equipments for Laboratories under IDSP 2018-2019

Technical Specifications Centrifuge Machine

1. Microprocessor based table-top centrifuge with LED display of speed and time 0-60mins, digital count down timer
2. Brushless induction motor with frequency drive
3. Safety lid interlock to prevent opening of centrifugation
4. Step-less speed regulator with speed indicator
5. RPM range of 4000-6000 (3000-5000g)
6. It should be provided with interchangeable rotor head with the tube capacity of 24 tubes (5-15ml)
7. Aerodynamic compact construction for vibration free performance.
8. Body should be made of strong fabricated steel and corrosion resistant.
9. Separate control panel- for start/stop switch, dynamic brakes.
10. Spare six (6) protective fuses to be supplied.
11. Appropriate voltage stabilizer with each unit(if recommended to be run with voltage stabilizers).
12. Electrical requirements: 220 volts – 240 volts single phase, 50 Hz with power cord and plug.
13. The equipment should be ISO and CE (confirmite European) certified.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- The certificate of ISO and CE (confirmite European) should be provided.

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Specifications for equipments for Laboratories under IDSP 2008-2009

Technical Specifications Lab Refrigerator

1. Capacity (as per requirement) 350-450Ltrs.
2. Preferably double door
3. CFC free refrigerant gas (Not frost free)
4. Temperature 2-8^{0}c
5. Preferably roller mounted.
6. Adjustable shelves (4 in No.)
7. Battery backupupto 1 hr.
8. Durable rust free resistant exterior.
9. Durable unbreakable interior.
10. Control panel with temperature alarm , on/off switch and digital thermometer, power on indicator.
11. Interior lighting.
12. Adequate circulation of air to ensure even cooling by DUCT System
13. Door with lock.
14. Operable at 230+/- 10V, 50Hz.
15. Training of laboratory staff for the purchased equipment.
16. Availability of spares / disposables for at least 10 years.
17. All consumable required for installation and standardization of system to be given free of cost.
18. List of users and satisfactory report of quoted model from reputed institute preferably Government institute/ hospital.
19. Should have all the accessories required for the functioning of the equipment.
20. ISI mark or other equivalent quality certification.
21. All electrical peripherals required for smooth functioning e.g. voltage stabilizer and UPS should be provided with the equipment.
22. There should be provision for demonstration before final approval of equipment.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO 13489 and CE (confirmite European) and/or US(FDA) certificates to be provided.

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Technical Specifications BIO SAFETY CABINET CLASS II A

Specifications

1. Should be CLASS II A
2. Biosafety cabinet should provide protection for operator, environment and product from aerosols and microorganisms.
3. Size – HxWxD – 1560-1600mmx1300-1350mmx800-850mm
4. Design and Construction
    a. 18 gauge SS 304 grade interior and epoxy coated steel exterior,
    b. fully closing front door, front door open-able to a height of 10 inches and made up of ¼" clear tempered glass,
    c. should provide drain pan
5. Work area – 16 gauge SS, seamless, dished work surface, removable with external knobs
6. Airflow velocity – Inflow – 100fpm, down flow – 60+/-10fpm, 70% recirculation and 30% exhaust
7. Plenum – negative pressure plena surrounding the work area and should be made up of metal
8. HEPA filters – Twp HEPA filters (Exhaust and Supply), Should be of 99.9% efficiency at 0.1 and 0.3µ
9. Sound emission - <65db
10. UV light – should be provided with UV light and UV interlock system to cut the UV light automatically if the door opens accidentally
11. Fluoroscence light – Should be provided with fluorescence light
12. Ports – should be provided with gas connection ports
13. Electrical socket outlets – socket for 5 and 15 amp
14. Microprocessor controlled display for – airflow velocity
15. Audiovisual alarms for –
    a) Excessive opening of sash
    b) Airflow failure or slow airflow (optional)
16. Operating environment – should be capable of operating in 20-35°C and relative humidity of 80%
17. Power supply – 210-240V, 50Hz
18. Compliance with – NSF49 /ANSI49 / EN 12469 certifications
19. Certification – US(FDA) / CE certified/ISO13489
20. Safety requirements –shall meet latest IEC or equivalent BIS requirements of safety for electromagnetic compatibility
21. Accessories-should provide the following:
    - Suitable voltage stabilizer and UPS
    - Replacement filter
    - Stand with leveling screws and castors
22. Services required:
    - Onsite installation and validation
    - Calibration certificates
    - Operation manual

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
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Technical Specifications for weighing scale

- Electronic analytical balance which is fast, accurate, reliable and easy to operate
- Draft shield chamber with sliding door on both sides.
- Digital LCD/LED display
- Readout should have at least 4 decimal places.
- Readability : 0.01 mg
- Minimum weighing capacity: 0.01g
- Maximum weighing capacity: 100 gms
- Operating temperature 10° c to 50 °c.
- Electrical Requirement : 230 V/50-60 Hz (supplied with AC Adapter)
- Tare/Zero function, Calibration Facility should be there
- Instruction manual and spare fuses(2Nos) to be provided
- Should be CE (Conformite European)/US(FDA) and ISO13489 certified.

Operation manual with user demonstration video CD.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
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Specifications for equipments for Laboratories under IDSP 2018-2019

Technical Specifications for Needle Destroyer

- Should be lightweight, portable and compact
- Housing should be molded type, shock proof and made of ABS powder coated Stainless Steel 304 Grade
- Should provide a removable discharge tray made for easy disposal of syringe hubs
- Should have the provision to burn the needle & to cut the syringe tips
- Should have a hardened steel plate to cut the Syringe
- Should be able to destroy needle of type up to 18G
- Should be able to destroy minimum of 5 injection on continuous operation
- Should a heavy duty transformer and work on 220-240 Vac/50 Hz electric supply.
- Should have a power on/off switch and an indication for power.
- Should be properly insulated for the protection from electrical hazard.
- Should provide with fuse (5nos) of adequate rating with each unit

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Specifications for equipments for Laboratories under IDSP 2018-2019

Technical Specifications for Autoclave (Vertical)

- Should be fully automatic vertical autoclave for total destruction of all living microorganisms
- Pressure adjustable from 10 psi to 20 psi with an accuracy of +/- 1 to 3 psi, with automatic pressure control switch
- Outer and Inner chambers made up of stainless steel SS 304
- Size of the inner chamber – 40 -50 (Width) x 60 -80 cm.(Height)
- Should be provided with silicon / Rubber / Neoprene gasket
- Lid should be stainless steel and should be fitted with
- Pressure Gauge
- Safety Valve
- Manual exhaust valve
- Vacuum breaker
- Ports for calibration check
- All the hinges should be of stainless steel
- Drain valve at bottom for draining the water
- Micro processor controller based system to provide digital display of cycle processes like temperature, pressure, and time.
- Should be provided with low water level alarm and cut off.
- Automatic Pressure Control Switch - To cutoff the current from the heating elements, when the desired/ set pressure value level is attained inside the chamber and restarts the mechanism once the pressure inside the chamber falls from the desired level.
- ISO / CE (Confimate European) Certified

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
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Technical Specifications for Hot Air Oven

1. Double Walled Construction
2. Outer Chamber is made of Mild Steel duly pre-treated with rust proofing and finished with durable powder coated paint.
3. Inner chamber made of Stainless Steel. Size (WxDxH) 550 – 600 mm with 3 shelves.
4. Inner Chamber fabricated with ribs to adjust shelves to convenient height.
5. Inner Chamber has 3 removable shelves
6. Gaps between the walls are filled with special grade glass wool/any other material.
7. Insulated doors fitted with heavy hinges with a ball catcher spring-loaded door closing device.
8. Motorized air-circulating fan installed for uniform air circulation
9. Heating element made of high grade nichrome wires
10. Temperature Range: above ambient temp to 250^0 C
11. Temperature Control Microprocessor based digital temperature controller with built-in timer to set the sterilization cycle and LED display.
12. Temperature Accuracy: +/- 1^0 C
13. Front Panel On/Off Switches with heating and main indicator lamps temperature controllers with LED Display.
14. Air ventilation ports provided on both sides
15. Power Supply: 230 V AC single Phase, 50Hz supply with power cord and plug.
16. Equipment should meet ISO/CE Standards.

General Requirements:

- Warranty : Three (3) years warranty and thereafter seven (7) years Comprehensive Annual Maintenance Contract (CAMC)
- User/ Technical/ Maintenance manuals in English to be supplied.
- List of important spare parts and accessories with their part numbers.
- Certificate of calibration and inspection from the manufacturer.
- Attach original manufacturer's catalogue and specification sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet.
- Satisfactory working of quoted model from institutes of repute.
- Valid ISO and CE (confirmite European) and/or US(FDA) certificates to be provided.

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