

**INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY
SHIBPUR, P.O. Botanic Garden (Formerly Bengal Engineering And Science University,
HOWRAH (West Bengal, India)-711103**

Phone: 033 26681503, 033 26684561 Fax: 033 26682916

Tender No:- 05/DY.REG./20-21

Date:-22.07.2020

Notice Inviting Tender

Sealed Quotations are invited from bonafide manufacturers/dealers/agents/suppliers for the procurement of following items of reputed brand/make at IEST, Shibpur, Howrah-711103.

EMD of Rs.1,000/- by Bankers Cheque/ DD drawn in favour of 'Registrar, IEST, Shibpur' should be submitted. Details of the items are given below.

REGISTRAR

1. Important Information:	
Last Date of Bid Submission	27/07/2020 upto 12.15 PM.
Date of Bid Opening	27/07/2020 at 1 PM at Registrar Office.
Bid shall be submitted to	Drop box kept at the first gate of IEST, Shibpur
Officer Inviting Bid	S. N. Datta, Deputy Registrar, Stores & Purchase, IEST, Shibpur

2. Equipment :

Infrared Thermometer	-	4 Nos.
Pulse Oxymeter	-	6 Nos.
Portable Oxygen Cylinder	-	2 Nos.
Oxygen Cylinder	-	2 Nos.
Oxygen Mask	-	10 Nos.
Oxygen Cylinder Trolley	-	4 Nos.
Autoclave (for sterilization)	-	1 No.
Incinerator	-	1 No.

3. Personal Protection Items :

PPE Kit	-	15 Nos.
Head Cap	-	20 Nos.
Face Shield, Mask, Gloves, Protective Goggles	-	20 Nos. each

4. Miscellaneous Items :

Pillow	-	20 Nos.
Bedsheet	-	40 Nos.
Mosquito Net	-	10 Nos.
Dustbin	-	15 Nos.
Curtains (fixing complete)	-	10 Nos.

5. Technical Specification

Specification

1. Infrared thermometer

Specification:

Parameter	Value
Infrared temperature range	40 °C to 500 °C
Infrared accuracy	± 2 % of reading or ± 2° C (highest value is valid)
Optical resolution	8:1 (adjustable)
Infrared response time	0.2 s
Display resolution	0.1°C (0.2°F)
Display	LCD
Emissivity	0.3 to 1 (adjustable)
Reading interface	RS-232 (optional RS-232 to USB adaptor available)
Printer integrated thermal printer	38 mm wide for 28x30 mm paper
Backlight	Two levels, normal and extra bright for darker environments
Lock	Trigger
Switchable Units	Celsius and Fahrenheit
Power	4 AA/LR 6 batteries or optional mains adaptor dimensions 208x70x53 mm
Memory	12000 readings
Warranty	2 years

2. Pulse oximeter

Specification:

- Should have numeric display for SPO₂ and Heart rate on LCD/TFT display.
- Should have a SPO₂ range of 0 to 100%.
- Should have SPO₂ accuracy of ±2%.
- Should provide bar graph for pulse strength.
- Audio and visual alarm for both upper and lower SPO₂, Heart rate.
- Should provide with adult reusable finger probe with technology from standard reputed companies.
- Beep sound and alarm sound should have separate volume control
- Should have a minimum of 2 hours back-up time.
- Should be a portable, light weight and desktop model.
- Should work with input 200 to 240Vac 50 Hz supply.
- Features- Low Battery Indicator
- Handling-Portable
- Display- Digital
- Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid

3. Oxygen Cylinder

Specification:

Cylinder Capacity (liters)	10
Usage	Medical
Body Material	Aluminum
Working Pressure:	150 kgf/cm ²
Type of Cylinder:	Filled
Oxygen Purity:	99.999%

With appropriate fittings

4. Portable Medical Oxygen Cylinder

Specification:

- Portable Medical Oxygen Cylinder - Aluminium
- Available in both Bull Nose & Pin Index type Valves
- 6 to 10 Ltr Oxygen capacity
- Applications : Hospitals, In-house patients, Emergency services, Ambulance etc.

5. Autoclave

Specification:

- Chamber Volume - 20 - 100 ltr.
- Shape Vertical
- Working pressure and Temperature : 1.2 to 2.2 Kg/sq.cm at 121 Deg C
- Material of Construction Inner chamber , Jacket, Door : SS 316.(5mm-10mm)
- Outer Chamber : SS 304 (Insulated properly)
- Steam Generator : Non corrosive SS / Chromium plated Brass
- Heater Plate : Brass / Stainless Steel
- Pipe Line : Complete with SS
- Stand : Stainless Steel / High quality non corrosive steel
- Instrumentation : Temperature, Pressure and Vacuum gauges : Steam traps, vacuum driers, water level indicator on steam generator
- Safety devices : Pressure switch and safety valve, self locking of door when chamber is under pressure, Vacuum breaker for jacket
- Steam generator with gauge glass valves and Low water protection with audio visual indicator.
- The equipment should have ISI mark on quality.

6. Medical Waste Incinerator

Specification:

- Height of chimney 30 meter
- Capacity range 5 kg/hr to 500 kg/hr
- Consists of Automatic feeding system, PLC based control panel, Air pollution control device and Chimney
- Incineration 1000 C
- Maximum CO level: 55 mg/m³
- Combustion efficiency: 99.9%
- Material: Stainless steel

7. Personal protection

PPE kit: Gloves- nitrile, non-sterile, powder free; outer gloves- preferably reach mid-forearm, minimum 280 nm total length; size – 6.5 and 7; quality equivalent with – i. EU standard directive 93/42/EEC ClassI, EN455; ii. EU standard directive 89/686/EEC category III, EN 374; iii. ANSI/SEA 105-2011, iv. ASTM D6319-10; Impermeable to blood/fluid; Single use; light color preferable for easy detection of contamination; Thumbs/finger loops to anchor sleeves in place; Quality compliant with ISO 16603 class 3 exposure pressure or equivalent.

Head cap: Disposable; Shape: Ruond, Size: 16 inch, 18 inch, 21 inch. (approx); Material: Non Woven; Usage/Application: Hospital; Color: Blue, Green, White.

Gloves: nitrile, non-sterile, powder free; outer gloves- preferably reach mid-forearm, minimum 280 nm total length; size – 6.5 and 7; quality equivalent to Indian standards or equivalent to Indian standard quality

Face shield: Made of clear solid plastic, provides good visibility to wearer and patients, adjustable band to attach firmly around head and fit snugly around forehead; Fog resistance (preferable), completely cover the sides and length of face, may be reusable (material can be cleaned and disinfected), Indian standard quality.

Mask: N95

Protective goggles: Leg material Nylon; Lens material Polycarbonate; Lens thickness 2.2mm; Lens curvature 4 base spherical.

8. Miscellaneous

Pillow: Suitable for patients

Bed sheet: Single bed, white, cotton, good quality

Mosquito net: Single bed, nylon made, good quality

Mattress: Single bed, 3ft.x6.5 ft, good quality

Dustbin: Standard with cover

Fitting and fixing curtains (as per supplied sample) with arrangement of channels and other accessories (9ft+6ft Rm for each unit)

Terms and conditions:

- i. All rates quoted should mention all taxes, levies & duties. **Request for inclusion of any tax/levy at later stage will not be entertained.**
- ii. **The bidder must enclose GST Registration certificate, Trade License and PAN No. with the bid.**
- iii. **Preference will be given to those who have experience of work with the Govt. /Higher Education Institute or similar organization. Supporting document must be attached.**
- iv. Transportation, Packing, Forwarding, installation, training and Insurance Charges if any to be charged should be specifically indicated.
- v. The certificate stating the address where the order has to be placed.
- vi. The Institute reserves the right to accept or reject all or any of the tenders without assigning any reason whatsoever. The decision of the Institute shall be final in case of any dispute.
- vii. **The work must be completed by/within 3 days of placement of order.**
- viii. Materials & accessories used should be as per specification and of Approved Quality (B.I.S.) or by the authorized officer of I.I.E.S.T' Shibpur.
- ix. Bills in Triplicate should be presented for payment within 15 days of supply/completion of work.
- x. The Order no. is to be noted on both challan & Bill.
- xi. All bills are to be accompanied by order copies and challans as received.
- xii. Payment will be made within 30 days of Submission of proper bills; challans etc. by A/c payee cheque. **No Cash payment will be made under any circumstances.**
- xiii. **Delivery of the goods will be for IEST, Shibpur and CIF, IEST, Shibpur** in case of importing foreign goods.

- xiv. SELECTION WILL BE MADE PURELY ON ESSENTIAL TECHNICAL/FINANCIAL DOCUMENTS. The IIESTS authority will evaluate and compare the quotations (the gross amount i.e. inclusive of all taxes, other charges etc.) determined to be substantially responsive i.e. which- (a) meet the qualification criteria specified in the tender, (b) Are properly signed, and (C) Conform to the terms and conditions, specifications without deviations.
- xv. Only one best quality item (according to our specification) should be quoted against each item. On no account should different qualities e.g. A, B, & C of items be quoted. Those items that have been quoted as per different qualities (In contravention to the specifications) will not be considered at all and will be summarily rejected.
- xvi. Based on our specifications, image/drawing of item to be provided and Model Name/No. (if applicable) and Brand must be clearly mentioned in the quotation, without which quotation will not be considered.
- xvii. In case of non-supply of material within the due date i.e. within the date of delivery, the Director, IIEST Shibpur will have the right to impose penalty like forfeiture of E.M.D./performance security and removal of the name from the list of the vendor and resort to risk purchase in full or part thereof at his/her discretion, his/her decision shall be final and bind.
- xviii. All the equipment and accessories will carry a guarantee for a period of 24 months from the date of commissioning. Guarantee for all the items supplied will be on 'all comprehensive' basis. Supply of equipment shall include installation, erection, commissioning and demonstration. Indian Institute of Engineering Science and Technology, Shibpur, Howrah reserves the right to accept/ reject all or any of the bidders without assigning any reason whatsoever.

I/We accept the above terms and conditions.

(Seal and signature of bidder)

S. N. Datta
Deputy Registrar,
Stores & Purchase,
IIEST Shibpur

Copy forwarded for information and necessary action to:

1. Institute Website,
2. Notice board