



Notice Inviting e-Tender

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PROCUREMENT OF MEDICAL EQUIPMENT FOR FIVE NEW MEDICAL COLLEGE AND HOSPITALS

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-209/2018

Dated –11.10.2018

The following amendment has been made in the tender document,

Amendment – II

2. TECHNICAL SPECIFICATIONS

| Sl. No. | Equipment | Specifications |
|---------|--|--|
| 1 | Sherrington Starling kymograph (electrically driven) | 1. Microprocessor controlled 7-speed digital kymograph. 2. Drum height 170 mm and diameter 150 mm. 3. Digital display (Indicative make: Orchid Scientific, Nashik) with Kymograph paper. |
| 2 | Colorimeters | Item deleted from Pharmacology list; Qty (15) included in Biochemistry List. |
| 3 | Actophotometer | 1. Infra-red actophotometer (actimeter) to record spontaneous activity in rodents. 2. Indicative make: Orchid Scientific, Nashik. |
| 4 | Starling's long extension Kymographs with time markers | Brodie Starling large extension kymograph with stand. (Indicative make: Orchid Scientific, Nashik) with Kymograph paper. |
| 5 | Instruments Sterilliser Electric size 12"x8"x6" | Electric instrument sterilizer, stainless steel make, approx. 3L capacity with tray lifting system. |

| Sl. No. | Equipment | Specifications |
|---------|-----------------------------------|--|
| 6 | Digital Sphygmomanometer | Digital BP monitor, battery operated, with auto-inflation cuff and memory function, equipped with standard size adult cuff. Should be CE/US FDA/BIS |
| 7 | Critical Flicker Fusion Apparatus | <ol style="list-style-type: none"> 1. Flicker fusion apparatus with digital display of flicker frequency. 2. Red flickering field of 10 mm diameter with white surround. 3. Intensity of the field as well as its surround to be variable. 4. Light to dark ratio of each cycle is adjustable from 1:9 to 9:1. 5. Frequency variable to show intermittent light. 6. Flicker and continuous light. |
| 8 | Bicycle Ergometer | Item deleted from Pharmacology list; Qty (5) included in Physiology List. |
| 9 | Tread Mill Machine | <ol style="list-style-type: none"> 1. The treadmill should always start from 0 mph and speed limit 0-15 mph. 2. Inclination up to 35°, auto adjustable. 3. Should have in-built test protocols and programmes with speaker and computer interface and printer. 4. Should have emergency stop button 5. LCD touch screen displaying heart rate, Speed, time, calorie expenditure, BMI, work load or oxygen consumption (Vo₂ in ml/kg/min), timer with alarm and hand sensor. 6. It should have a load capacity of maximum 400 lbs and should have facility to run the self – calibration programme. Treadmill should have minimum 50-60" waking surface with PVC non slip surface. 7. Electrical safety conforms to standards for electrical safety requirements. |
| 10 | Dale's Isolated organ bath | <ol style="list-style-type: none"> 1. One channel system isolated tissue organ bath. 2. Durable plastic (not glass) construction with reservoir coil made of Perspex. 3. Inbuilt water circulation pump for uniform temperature control. 4. Digital temperature controller. 5. Equipped with water bath tube and aeration tube. |
| 11 | Rotarod Assembly | <ol style="list-style-type: none"> 1. Combined mouse/ rat rotarod apparatus (through change of rotor). 2. Multi-lane (at least 5 lanes) with individual lane timers (resolution of 0.1 s). 3. Automatic detection of fall. 4. Electronic rod speed adjustment (5 - 80 rpm). |
| 12 | Cook's Pole Climbing Apparatus | <ol style="list-style-type: none"> 1. Selectable light or audio stimuli. 2. Digital voltmeter for setting voltage in the range of 16-200V DC. 3. Digital Timer for setting timer in the range of 0.1-999s. 4. Climbing pole made of high quality plastic / wood. 5. Chamber equipped with excreta tray. |
| 13 | Electro-Convulsimeter | <ol style="list-style-type: none"> 1. Indicative make: Orchid Scientific, Nasik 2. Voltmeter – Digital, Corneal Electrodes – on Bakelite, Timer-Digital. 3. Corneal Electrodes – 03 pairs (4, 6 & 8mm and a pair of eye clips are supplied as std) |

| Sl. No. | Equipment | Specifications |
|---------|----------------------|---|
| | | <ol style="list-style-type: none"> 4. Ammeter – Digital (0.1s-1s) 5. Timer – Digital (0.1s – 1s) 6. Current – 0.25 mA-360 mA 7. Foot Switch – YES |
| 14 | Autoclave Electric | <ol style="list-style-type: none"> 1. High Pressure, electrically heated vertical steam sterilizer is used for sterilization of surgical instruments, dressing material, lined, rubber, plastic material by means of saturated steam under pressure of 15 to 20 psi (adjustable). A part from health services it is also used in scientific research institutions and universities. 2. Sturdy double walled construction with boiler made of stainless steel of SS-304 sheet is easy to operate. Outer shell is made of Stainless Steel. Stainless steel Bucket with handle with perforated wall. The boiler and outer shell is provided with air insulation: Lid is made of stainless steel plate and is tightened alround by wing nuts. Moulded, jointless gaskets are made of Neoprene rubber: Sterilizer is hydraulically tested upto 40 psi. 3. Fitted with water level arrangements to indicate water position inside the boiler, pressure guage, Air/steam release cock. Loaded safety Valve which can be set at any selected point from 10 psi. to 20 psi. +- 3 psi. and drain, ISI marked immersion heating element (one 1KW) heats the water and steam to desired temperature and pressure. 4. Size: Dia X Depth = 400 mm X 600mm 5. Should be CE/US FDA/BIS |
| 15 | Portable digital ECG | <ol style="list-style-type: none"> 1. Compact portable 3-channel (plus long lead) ECG system. 2. Rechargeable lithium ion battery with recharge time (from full discharge) with 5 hours. 3. Readout with measurement and interpretation. 4. Membrane keyboard with tactile feedback. 5. Along with standard accessories including chest and limb leads, AC charger, fanfold ECG paper compatible with make and model (quantity sufficient for at least 500 ECGs) and jelly. 6. Should be European CE/US FDA/BIS |
| 16 | Water bath | <ol style="list-style-type: none"> 1. Capacity: 10 ltr. 2. Rectangular water bath 3. Digital display, membrane keyboard, temperature range from ambient to +75°C, set value memory. 4. High temperature consistency (control accuracy 0.2° C), working temperature above +44°C indicated by flashing LED. Set temperature displayed in addition to actual temperature. 5. Jet-black aluminium/SS surface with special scratch-proof plastic coating ensures highest thermal conductivity. |

Amendment – IV

1. List of Consignee

| Consignee List | | | | | | | |
|----------------|--|-----------|---------|-----------------|---------|------------|-------|
| ITEM NO. | ITEM | Rampurhat | Purulia | Diamond Harbour | Raigunj | Coochbehar | Total |
| 1 | Sherrington Starling kymograph (electrically driven) | 3 | 3 | 3 | 3 | 3 | 15 |
| 2 | Actophotometer | 1 | 1 | 1 | 1 | 1 | 5 |
| 3 | Starling's long extension Kymographs with time markers | 3 | 3 | 3 | 3 | 3 | 15 |
| 4 | Instruments Sterilliser Electric size 12"x8"x6" | 1 | 1 | 1 | 1 | 1 | 5 |
| 5 | Digital Sphygmomanometer | 20 | 20 | 20 | 20 | 20 | 100 |
| 6 | Critical Flicker Fusion Apparatus | 10 | 10 | 10 | 10 | 10 | 50 |
| 7 | Tread Mill Machine | 1 | 1 | 1 | 1 | 1 | 5 |
| 8 | Dale's Isolated organ bath | 4 | 4 | 4 | 4 | 4 | 20 |
| 9 | Rotarod Assembly | 1 | 1 | 1 | 1 | 1 | 5 |
| 10 | Cook's Pole Climbing Apparatus | 1 | 1 | 1 | 1 | 1 | 5 |
| 11 | Electro-Convulsiometer | 1 | 1 | 1 | 1 | 1 | 5 |
| 12 | Autoclave Electric | 1 | 1 | 1 | 1 | 1 | 5 |
| 13 | Portable digital ECG | 4 | 4 | 4 | 4 | 4 | 20 |
| 14 | Water bath | 4 | 4 | 4 | 4 | 4 | 20 |

Amendment – V

The BOQ has been replaced. Revised BOQ has been uploaded.