TENDER DOCUMENT

NIT No.: NRO/CON/738/664 dated 08.10.2018

FOR

Supply, Installation, Testing, Commissioning & Handing-over of Medical equipments (Group-5) for Government Medical College, Barmer (Rajasthan).

VOLUME – III

BILL OF QUANTITY / PRICE BID

ENGINEERING PROJECTS (INDIA) LIMITED

(A GOVT. OF INDIA ENTERPRISE)
Core-3, Scope Complex,
7, Lodhi Road, New Delhi-110003
TEL NO: 011-24361666, FAX NO. 011-24363426
Supply, Installation, Testing, Commissioning & Handing- over of Medical equipments (Group-5) for Government Medical College, Barmer (Rajasthan).

### SUMMARY OF COST

<table>
<thead>
<tr>
<th>SL.No.</th>
<th>ITEM</th>
<th>ESTIMATED COST (IN Rs.)</th>
<th>BIDDER'S PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ESTIMATED COST OF MEDICAL EQUIPMENTS AS PER BOQ</td>
<td>3171075.00</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** 3171075.00

Note:-  
1) Quoted rates shall be inclusive of all taxes & duties including GST.  
2) Total quoted amount by the bidder shall be considered for price evaluation.

**BIDDER'S FINANCIAL OFFER:**

- In Figures: ____________________________________________

**SEAL**

- In Words: ____________________________________________

**SIGNATURE**
## Supply, Installation, Testing, Commissioning & Handing - over of Medical Equipments (Group - 5) for Government Medical College, Barmer (Rajasthan)

### BOQ OF MEDICAL EQUIPMENTS (GROUP-5)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description / technical Specification of Items</th>
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<tbody>
<tr>
<td>1</td>
<td>Dissection Table with stainless steel top. Approximate Dimension :- 6'1&quot; x 2' x 3' (ht) The stainless steel top shall be of 18 gauze It should be made of stainless steel (steel grade 304) with a frame made of rugged torsion resistant Stainless steel profiles. Tabletop depth should be of approx. 15 mm sloping towards the drain. The table top shall have raised border (1 inch ht and 1.5 inch breadth) on all sides made of stainless steel. The top should rest on MS angular frame. The frame and top should be supported by SS tubular pipe of 16 gauge and shall not have castors. The table shall have drawing for keeping instruments. 10 liter removable container with bayonet lock, mounted beneath the down spout, should be attached to a rack in the base frame. The container shall be removable so as to simplify the cleaning of container. The following things must be provided. Stainless steel bucket with handle 50 Ltrs Headrest Body support shim. ISO 13485 certification shall be provided.</td>
<td>15</td>
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<tr>
<td>2</td>
<td>Dissection Table - Half Standard Size It should have Approximate Dimension :- 4ft x 2 ft x 3 ft (L x W x H) The stainless steel top shall be of 18 gauze It should be made of stainless steel (steel grade 304) with a frame made of rugged torsion resistant Stainless steel profiles. Tabletop depth should be of approx. 15 mm sloping towards the drain. The table top shall have raised border (1 inch ht and 1.5 inch breadth) on all sides made of stainless steel. The top should rest on MS angular frame. The frame and top should be supported by SS tubular pipe of 16 gauge and shall not have castors. 10 liter removable container with bayonet lock, mounted beneath the down spout, should be attached to a rack in the base frame. The container shall be removable so as to simplify the cleaning of container. The following things must be provided. Stainless steel bucket with handle 50 Ltrs Headrest Body support shim. ISO 13485 certification shall be provided.</td>
<td>5</td>
<td></td>
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<tr>
<td>3</td>
<td>Embalming Table Approximate Dimension :- 6'1&quot; x 2' x3' (ht) The stainless steel top shall be of 18 gauze It should be made of stainless steel (steel grade 304) with a frame made of rugged torsion resistant Stainless steel profiles. The table top shall have raised border (1 inch ht and 1.5 inch breadth) on all sides made of stainless steel. The table shall have foldable arm rest which can be extended outwards, so as to tie stretched arms of cadaver. The table shall have provision to keep the embalming machine under the table on a stand. The top should rest on MS angular frame. The frame and top should be supported by SS tubular pipe of 16 gauge and shall have quality castors with locking systems ISO 13485 certification shall be provided.</td>
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<td>4</td>
<td>Hand Saw (Stainless Steel) It shall be made of high carbon steel blades made at HRD to 52 degrees. Blades shall be antirust, hard and durable. Blades shall be chrome plated. Shall be ISO certified.</td>
<td>3</td>
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<td>5</td>
<td>Bone &amp; Meat Cutting machine for Thin Body Sections. This for preparing specimens of large size in Anatomy Departments. It should be fitted with a large moving table and extension table operated on four ball-bearing rollers. Specifications : Saw (blade) and Table top should be made up of stainless steel 304. The steel shall be thick (18 gauge or less) The size of cutting table shall be 780 x 580 mm approx. Total Table Travel shall be 1245 mm approximately. Extension Table shall be 455 x 760 mm approximately. The size of Wheel shall be 455 mm approx. Height shall be 1700 mm approx.</td>
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| 5% of standard deviation is allowed for sizes.  
Motor Capacity : 2 H.P ISI Make. Certificate shall be attached  
The table shall be supplied with five blades, two starters, cord and plug.  
Suitable to work on 220 V, single phase, 50 Hz, AC supply.  
ISO certification shall be submitted. | 6 | 3 | | |
| **6** Brain Knife (Handles and Blades)  
The handle shall be autoclavable and chemical resistant.  
It shall be made of stainless steel and both edges of the blade shall be sharp, so as to prevent the damage to the tissue. | | | | |
| **7** Simple S.S. Stretcher trolley for cadaver transport  
It shall be made of strong steel tubular frame work of trolley mounted on four 150mm diameter swiveling castors.  
It shall have removable stretcher top made of S.S. Sheet (18 gauge) supported on tubular frame.  
The frame shall be Pre treated and epoxy powder coated.  
Over all approximate size : 2030mm (L) x960mm (W) x820mm (H)  
Company shall be ISO certified | 1 | 1 | | |
| **8** AUTOPSY SAW.  
It should have high speed oscillating action for quickly cutting through bone without harming soft tissue.  
The saw should be such that it can be used for removing the skull cap, making linear cuts or taking small bone specimens.  
It should be durable and easy to handle.  
It should have large section blade with atleast 2 arbors.  
It should be based on high-speed oscillation principle.  
It should have 8 -10 feet long electrical cord with indian hospital grade plug.  
It should have On/Off sliding switches design.  
It should have safety flange over hand piece.  
Shall be CE and ISO certified. | | | | |
| **9** Embalming Machine  
Fluid delivery rate should be 10 ltrs/Hr.  
Inner tank to store embalming fluid with capacity 10-15 ltrs.  
Should be of stainless steel.  
Pump : Pump should be of electromsgetic/ diaphragm  
dosing pump with capacity 0-5 ltrs per hour and pressure 3 kg/cm square.  
The equipment should be mounted on castors for easy movement and the hand grip should be provided for lifting.  
I.V. stand fixed for mounting cannula tubing and mains cable.  
Indicator for mains on & in use should be present.  
The outer body should be of complete stainless steel.  
Power Supply : 220 V AC with trip facility.  
Motor - 1/2 HP or above.  
The motor shall have speed regulator to run machine at various speeds.  
ISO and CE certified. | | 2 | | |
| **10** Dissecting instruments.  
Shall be made of stainless steel (Long surgical scissors, Short surgical scissors, Long and Short curved surgical scissors, Tissue holding forceps, Long forceps, Short forceps, Tooth forceps, Scalpel) and magnifying lens.  
 Shall be ISO certified.  
The complete kit shall be given in easy to carry bag. | 10 | | | |
| **11** Distilled water still menesty type  
Shall be made of stainless steel with argon arc welding with a brass cock and provision for wall mounting with cord and plug to work on 220 volt.  
The capacity shall be 4 ltr/hr. | | 2 | | |
| **12** Incubator  
Shall have temperature range from room temp. to 90° C. Shall be double walled and double door with glass window inner chamber shall be of stainless steel sheet.  
shall have heating elements at three sides.  
Shall have power indicator bulb.  
Shall have ON/OFF switch & power cord.  
The approximate size shall be 450x450x450mm (18”x18”x18”) | | 1 | | |
| **13** Hot Air cover for drying slides (45° C)  
The size be 18”x12” | | 1 | | |
| **14** Electrically operated hand drill.  
It should comprise saggital saw head piece, mini hand drill with set of four drill bit Electrical 220 volts complete with bits jacob chuck and key foot operated.  
It shall be designed in line with defined safety standards and for cadaver use.  
It shall be ISO certified | | | | |
| **15** X-Ray Viewing lobby (4 Film View) View Boxes.  
View boxes shall be easy to install.  
design shall be slim i.e 2.5 cm or 3 cm thick. | | | | |
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<td>It should have LED Lamps.</td>
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<td>The thermometric scale of the light source should be over 9000 degrees of kelvin. The panel shall be made of Acrylic. There should not be any dark spot in the viewing area. It should have Built-in electrical source. Dimension WxHxT (mm) 1640x545x25 Visual size WxH (mm) 1500x440 Type of light source HIGH LUMINANCE LED, 100000 Hours On/Off Control Individual Panel On/Off Control. Film Activation Switch.</td>
<td>16 Microtome, Sledge, Large Cutting Shall be A.O. spencer Shall be study streamlined rigid construction. The cut section shall be from one microns to 50 microns in steps of one micron. Total feed excursion shall be 28 mm. Shall have Ball and flange type object lamp accommodates specimen upto 32 x 37 mm. Shall have independent feed mechanism with automatic feed release safety device. Shall have counter balanced drive wheel with looking device. Knife shall be manufactured from highest quality fine grained carbon steel. Accessories : 1. 3 Object holders. 2. 1 Knife 120 mm with back and handle. 3. 1 Large hone for honing. 4. 1 Leather strap for sharp edge honing.</td>
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<tr>
<td>For Safe and easy handling of 75 x 25 mm slides. Made of seasoned wood. Well designed for its performance, durability and appearance. Shall have doors fitted with handle, lock and key. The anodized seamless moulded (die-pressed) aluminium slide strays for holding 75 x 25 mm slides, have been arange separately so as not to disturb other compartments while taking out or putting in the slides. The usual size of the tray is 335 x 230 x 35 mm and is properly fitted with uniformly slotted aluminum carries in four rows, each holding 50 slides i.e each tray holds 100/200 slides in horizontal position and is fitted with index holder. Slide holding slotted rows are numbered 1 to 50 to identify the slides.</td>
<td>17 SLIDE CABINETS - (HORIZONTAL MANNER) :- Shall be supplied with 5 caster rolled stand Live Demonstration (no Laptop) will be asked prior to opening of financial bid.</td>
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<td>30</td>
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<td>The articulated adult skeleton should be ideal for teching the basics of human anatomy. The model should be replica of a life size human skeleton and should show all skeleton part in high details. The arm, legs and skull cap should be removable for study. Should be made of washable and unbreakable material. All of the joint, sutures, fission, formainga and processes should be portrayed with at most accuracy. Height - 170 cm (approx.) Should be supplied with 5 caster rolled stand</td>
<td>18 Skeletons articulated with Box</td>
<td>5</td>
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<td>It shall have Capacity of 5-7 Kilos. It shall have Sensitivity 1/5 gram, plastic scale It shall have Hanger Type circular weighing scales - 1 It shall have Dial type analog display, light weight aluminium die cast body, unbreakable convex lens, matching body and lens ring. Shall be ISO certified.</td>
<td>19 Balance earanger.</td>
<td>2</td>
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<td>It shall be Manual type with specimen clamps, user selectable coarse feed wheel turn direction, retraction. It should have ON/OFF function and blade holder for disposable blades. The vertical stroke of at least 59 mm and horizontal specimen travel range of 25 mm with section specimen size of atleast 40 mm x 40 mm. It should have Ergonomically designed hand wheel grip. Instrument should be able to cut serial sections with setting from 0.5 to 60 micrometers Section increment shall be :- from 0 to 2 um in 0.5 um steps. from 2 to 10 um in 1 um steps. from 10 to 20 um in 2 um steps. from 20 to 60 um in 5 um steps. The feed shall be manual via coarse feed wheel.</td>
<td>20 MANUAL ROTARY MICROTOME.</td>
<td>2</td>
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<td>21</td>
<td>It should have Trimming thickness selections : 10 and 50 um. 5 packets (50/packet) of low and high disposable blades shall be provided with the equipment. Shall be CE and ISO certified.</td>
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<tr>
<td>22</td>
<td>Slide Rack. To keep the slide in vertical position It should be made up of anodized aluminium of good quality.</td>
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<td>23</td>
<td>Slide Carrying Tray. For keeping the slide of size 75 mm x 25 mm in flat position in two rows. It should be made up of good quality anodized aluminium. It should carry 20 slides</td>
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<tr>
<td>24</td>
<td>PARAFFIN EMBEDDING SYSTEM. It should have single module design. It should be Electronically controlled for dependability and performance. The heating function shall be controlled by accurate digital thermostat. It should have Low and flat work-surface. It should have atleast 4-liter capacity paraffin reservoir. It should have Forceps warmer and illuminated paraffin dispenser. It should have Wax bath complete with drainage shelf, debris screen, and hinged lid. It should have Heated work area which provides a flat working surface with the excess paraffin draining under the surface in to the wax bath. It should have hand and foot switch for activating the dispensing head. It should have Bright illuminations for convenient working. It should have cold plate of area in range of 165 - 175 sq.in of efficient refrigerated cooled working. surface with removable stainless steel drainage tray beneath. It should have touch-pad for easy temperature setting and monitoring. The various dimension are accepted with a standard deviation of 5%. Height of Work surface: Work stage 2.75&quot; (7 cm) above countertop Wax Reservoir Dimension (approx): 75&quot;(L) x 4.75&quot;(W) x 4&quot;(D) (19.5 x 12 x 9.5 cm) Wax Bath Dimension (approx) : 10.25&quot;(L) x 8.5&quot;(W) x 1.75&quot;(D) (26 x 21.5 x 4 cm) Warming Oven Dimension (approx) : 6.5&quot;(L) x 7.5&quot;(W) x min 2.5&quot; max 6&quot; (14 - 16.5 cm) Cold Plate Diameter (approx) : 11.75&quot;(L) x 14.5&quot;(W) (29.5 x 36.6 cm) It should have Temp Ranges with one sided standard deviation of -2° C Wax Reservoirs : 40° - 70° C Work Surface : 40° - 70° C Wax Bath : 40° - 70° C It should have Cold plate working surface: ambient to -5° C It should be CE certifeid. Accessories, spares and consumables Spare Bulb - 3 Thermostats - 1 Power input to be 220 - 240 VAC, 50 Hz</td>
<td>1</td>
<td></td>
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<td>25</td>
<td>Plastic Tanks for storing soft and dissected parts Shall be made of Polypropile size 30&quot; x 24&quot; x 10&quot; with 10&quot; wide mouth with cover lid.</td>
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<tr>
<td>26</td>
<td>Rectangular Hot Plate Use to heat glassware or its contents Durable cast iron heating element that heats up fast Thermostatic control from simmer to boil Durable and easy to clean spray plastic finish Variable heat control Stainless steel body with top having the diameter 30 cm Temperature and working indicator light Maximum surface temperature 300 c</td>
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<td>Dissection Microscope Shall have eyepoint lenses 10x and 20x magnification mounted on a jointed arm allowing the whole stage area to be scanned. The wide glass stage has two spring clips and a reversible substage mirror with good illumination giving good lighting of objects in daylight or under artificial light The rack and pinion mechanism shall be enclosed within the stage support pillar and operated by a knob on either side of the pinion spindle. Shall have detachable rests on either side of the stage providing a steadying support. Shall have wooden storage and carrying case with fitting for lenses, hand rests and microscope The overall height shall be approx 180mm and stage shall be approx 70 x 90 mm. Shall be ISO/CE certified.</td>
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<tr>
<td>27</td>
<td>Diamond pencil</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>7 Colour marking pencil</td>
<td>2</td>
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<tr>
<td>29</td>
<td>Over head projector</td>
<td>2</td>
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<tr>
<td>30</td>
<td>Skeleton disarticulated.</td>
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<td>25</td>
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The model should be a replica of a life-size human bone and should show all skeleton parts in high details. The disarticulated adult bone set should be ideal for teaching the basics of human anatomy. Should be made of washable and unbreakable material. Live Demonstration (no laptop) will be asked prior to opening of financial bid.

GRAND TOTAL

(Rs .......................................................... only)

Note:-

i) Quoted rates shall be inclusive of all taxes & duties including GST.

ii) Total quoted amount by the bidder shall be considered for price evaluation.