

**PAC HOSPITAL KAMRA (DISTT ATTOCK)**  
**TENDER NOTICE FOR ELECTRO MEDICAL EQUIPMENTS &**  
**MISC ITEMS FINANCIAL YEAR 2018-19**

1. Quotations are invited from the sales tax registered firms for purchase of following Electro Medical Equipments and Miscellaneous items according to the specifications mentioned against each for use in PAC Hospital Kamra:-

<b>S No</b>	<b>Noun</b>	<b>Unit of Issue</b>	<b>Qty</b>
(a)	Digital Orthopantomogram Unit 2D with complete accy	Ea	1
(b)	Soft Tissue Diode Laser with complete accessories	Ea	1
(c)	Chair Side Digital Imaging Sensors Plate System	Ea	1
(d)	Hand Held X-Ray System	Ea	1
(e)	Autoclave	Ea	04
(f)	Washer & Disinfector with Forced Drying	Ea	02
(g)	Intra Oral Camera	Ea	01
(h)	Hand Piece Cleaner & Lubricating System	Ea	02
(j)	Intra Oral Dental X-Ray	Ea	01
(k)	Dental Loup with Light	Ea	01
(l)	Endodontic Motor	Ea	01
(m)	Pulp Tester	Ea	01
(n)	Apex Locator	Ea	01
(p)	Work Station Double Person	Ea	01
(q)	Polishing Machine	Ea	01
(r)	Model Trimmers	Ea	01
(s)	Hand Piece Disinfection	Ea	01
(t)	Dental Cauty (Electrical Surgical Cut 50W)	Ea	01
(u)	CO2 Fractional Laser System	EA	01
(v)	Phototherapy Unit 3D	EA	01
(w)	Blanket Double Ply Single Bed	Ea	250
(x)	Mattress Foam Single Bed Standard Size	Ea	250

**(a) SPECIFICATIONS OF DIGITAL ORTHOPANTOMOGRAM UNIT 2D WITH COMPLETE ACCESSORIES:-**

- Generator : High frequency DC generator
- Sensor : CCD.
- Focal spot size : 0.5 mm
- Minimum total filtration : 2.5 - 3 mm Al
- Line Voltage : 220 x 240 Vac (50/60Hz)
- Anode Voltage : 50 – 80 kV
- Anode Current : 0.5 – 10 mA
- Electrical safety classification : Class 1/B
- Active sensor surface : 147- 147.5 x 6.0 - 6.1 mm
- Image Field height : 140 – 150 mm
- Image Resolution : 6.25 p/mm
- Pixel size sensor : 40 – 50 µm
- Pixel size image : 90 – 100 µm
- Exposure time : 8 – 10 sec
- PC connection : LAN / Ethernet
- Color touch screen
- Make : Europe, UK, USA & Japan

❖ **INCLUDED:-**

a. **Computer System Core i7**

- 4 GB RAM, 1TB HARD DRIVE, Wireless Keyboard, Wireless Mouse, LED 19 Inch & Online UPS, LEAD Color & LEAD Aprons
- Make : USA, UK, Eastern Europe, Japan / Equivalent
- b. Dry Laser Printer 01**
- Photothermographic (dry laser) with Simplified user panel
- ❖ **Image Quality**
- 320 - 325 pixels per inch, 75 - 80 microns laser spot spacing, 14 -16 bit pixel depth architecture with Up to 40 - 50 films per hour
- ❖ **Laser Imaging Film**
- Polyester base day-light load film cartridges
- Film archivability & printed film images support the film sizes
- 14 x 17 in, 11 x 14 in, 10 x 12 in and 8 x 10 in
- ❖ **Power**
- 180-264 VAC; 50/60Hz : maximum 4.5 amps
- Make : USA, UK, Japan & Europe  
---or Equivalent---

**(b) SPECIFICATIONS OF SOFT TISSUE DIODE LASER WITH COMPLETE ACCESSORIES:-**

- Soft tissue laser diode 980nm & 635nm – 10 W.
- Multi-functional hand pieces with handy grip and touch screen Interface.
- Up to 1000 therapies and patient data base
- ❖ **Included:-**
- Hand piece & tips for endo, perio, surgical, whitening and bio-stimulation.
- Optical fiber in silicon jacket 250 cm length.
- Needle tip 0°, 45°, 90° and diamond knife.
- Therapeutic tip for bio stimulation (lenticular), 14mm(fiber), 8mm diameter (fiber) and 2mm diameter.
- Photoactive disinfection adapter tip for perio, endo, bio-stimulation.
- Safety glasses for doctor λ 980nm and patient λ 635nm and 980nm.
- KEY- USB key with manual and personal patient database.
- Foot switch, Interlock, Power Cable, AC adapter and Transportation case.

**ACCESSORIES:-**

- ❖ **Work Station (Mobile Trolley) 01**
- Flexible Arm, With Drawer for Accessories & 4 Wheels Castor
- Complete Imported Set.
- Make : Europe, UK, USA & Japan
- Included:**
- 02 Days on site live training by Foreign Certified Laser Dentist on patients.  
---or Equivalent---

**(c) SPECIFICATIONS OF CHAIR SIDE DIGITAL IMAGING SENSORS PLATE SYSTEM:-**

- One step handling, fully daylight operation with no need to change exposure settings for each patient.
- Cordless, thin, flexible, re-usable imaging plates, sizes equal to intra oral films (0, 1, 2, 3 & 4C) Readable and compatible with all intra oral x-ray unit.
- ❖ **Technical Data:**
- Technology : Imaging plate  
(PSP = Photo Stimulable Phosphor plate)
- Pixel size (selectable) : 30 μm (SUPER RESOLUTION)  
60 μm (HIGH RESOLUTION)
- Resolution : 160 - 175 p/mm
- Readout time : 2 - 10 seconds
- Connection : Standard network connection (Ethernet)
- Operating Voltage : 120-240V AC, 50/60Hz
- Operating System : Windows 7

- Unit for imaging Plate Readout
- Application software
- ❖ **Imaging plates set + Storage box for Imaging Plates**
- Size 0 : 2 pieces
- Size 1 : 2 pieces
- Size 2 : 4 pieces
- Size 3 : 2 pieces
- ❖ **Protective Covers & Hygienic Accessories:-**
- 200 pieces
- User's software & Installation manual
- 4C Occlusal startup kit 01
- Make : Europe, UK, USA & Japan

**Included:-**

- a. **Computer System Core i7 01**
- 4 GB RAM, 1TB Hard Drive, Wireless Keyboard, Wireless Mouse & LED 19 Inches
- b. **Compatible laser printer 01**
- Make : USA, UK, Japan & Europe

---or Equivalent---

**(d) SPECIFICATIONS OF HAND HELD X-RAY SYSTEM: -**

- Hand held, portable x-ray with protective glass & dual battery
- Battery : Lithium Polymer, 22.2V, (1xspare)
- Anode Voltage : 60 to 70 KV DC
- Anode Current : 2 - 3 mA
- Focal Spot : 0.4 mm
- Inherent Filtration : > 1.5 mm
- Source to skin distance : 20 - 30 cm
- Maximum Duty Cycle : 1:30 – 1:60
- X-Ray Field : 50 - 60 mm round
- Make : Europe, UK, USA & Japan

---or Equivalent---

**(e) SPECIFICATIONS OF AUTOCLAVE: -**

- Autoclave class B with anti dusts filter, steam generator and double head vacuum pump. Electro-polish stainless steel sterilization chamber with simple door locking mechanism and full automatism provided with water level sensors and conductivity sensor incorporated in the tank with quick coupling system.
- Complete standard set with three stainless steel trays.

❖ **Technical Data:-**

- Capacity : 22 – 24 Ltrs
- Power Supply : 220 / 240 V
- Main Frequency : 50 / 60 Hz
- Rated Power : 2000 – 2500 W
- Chamber Dimension : 240 - 250 x 450 - 500 mm
- Tank Capacity : 4.5 – 5 liters
- Make : Europe, UK, USA & Japan

---or Equivalent---

**(f) SPECIFICATIONS OF WASHER & DISINFECTOR WITH FORCED DRYING: -**

- Washer and disinfectant system for decontamination, ultrasound washing, thermal disinfection and hot air drying purified with HEPA filter.
- User friendly LED touch screen.
- Power Supply : 220 / 240 V
- Frequency : 50 – 60 Hz
- Rated power : 2000 - 2500 W
- Detergent Reservoir Capacity : 0.7 – 1.0 Ltrs for 12 cycles
- Nominal tank volume : 6 – 8 liters

- Useful tank volume : 6 – 8 liters
- Max. Water Consumption : 15 - 18 Liter
- Max Load : 2 - 3 Kg
- Make : Europe, UK, USA & Japan

---or Equivalent---

**(g) SPECIFICATIONS OF INTRA ORAL CAMERA: -**

- Viewing Angle : 80° - 105°
- Depth of field : 8 – 40 mm
- Optical System : Three lenses
- Lamp : LED 5000 – 6000 K
- Frame Rate : 30 frames /sec, self adapting
- Make : Europe, UK, USA & Japan

❖ **Included:-**

- a. VGA Arm 01**
- Make : Europe, UK, USA, Japan

- b. LCD Monitor 01**
- 19 inches LED Screen
  - Make : Europe, UK, USA & Japan

---or Equivalent---

**(h) SPECIFICATIONS OF HAND PIECE CLEANER & LUBRICATING SYSTEM: -**

- Easy to clean and lubricate.
- Purge the instruments with purging select mode.
- Simple push of single button.
- Pre-set solution volume.
- Used for upto 4x hand pieces / air motors. (2 high speed & 2 low speed)
- Automated hand piece chuck cleaning system.
- Power Supply : 220 – 240 V, 50 / 60 Hz
- Make : Europe, UK, USA & Japan

---or Equivalent---

**(j) SPECIFICATIONS OF INTRA ORAL DENTAL X-RAY: -**

- ❖ Complete Imported Standard Set, Wall-mount Scissor Arm.
- ❖ Digital radiation key & Dead man logic control
- Rated electric power : 0.8 – 1 KW
- High frequency technology : 100 KHz
- Absorption : 6A
- Tube : DC
- Focal spot : 0.4 – 0.7 mm
- Total filtration : 2 mm Al
- Selectable anodic current : 3 – 7 mA
- Selectable voltage to x-ray tube : 60 – 70 Kvp
- Dispersed radiation : ≤ 0,25 mG/h
- Exposure time : 10 – 1000 mSec
- Power supply : 200 – 240 V 50Hz
- Intermitted operation / Duty Cycle : 1/30, 30 s reset
- Distance : F.F 20cm
- Make : Europe, UK, USA & Japan

---or Equivalent---

**(k) SPECIFICATIONS CHAIR DENTAL LOUP WITH LIGHT: -**

- High-resolution image with large field of view and homogenous magnification
- Lightweight with high resolution loupe mount on frame with flip-up function and adjustable viewing angle.
- Micro light LED HD with 55000- 65000 Lux, aluminium housing with 8-9 hours operating time battery with USB plug in transformer.
- HR Binocular loupes with 2.5 x 340 mm magnification optic with polarization filter.
- Make : Europe, UK, USA & Japan

---or Equivalent---

**(l) SPECIFICATIONS ENDODONTIC MOTOR: -**

- Adaptive motion with auto reverse
- Minimum 6 preset programs settings with custom settings.
- Ergonomic push button hand piece.
- Fully autoclavable motor / cable.
- Intuitive user interface and easy to read LCD screen
- Maximum torque 5 – 7 Ncm
- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(m) SPECIFICATIONS OF PULP TESTER: -**

- Dependable and pain-free pulp testing
- Automatically controlled and features large digital readouts.
- Quick and easy
- Patient- and practice-friendly pulp testing.
- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(n) SPECIFICATIONS OF APEX LOCATOR: -**

- Digital Apex Locator with automatic continuous calibration for accurate, uninterrupted readings in real-time.
- Compact design with user-set zero point and digital read out.
- Workable in dry / wet canal condition.
- Autoclavable file clip, file probe.
- Provide accurate, consistent and dependable readings.
- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(p) SPECIFICATIONS OF WORK STATION DOUBLE PERSON: -**

- High density fireproof material table top made of parkerized cold-rolled sheet painted electro-statically with imported paints equipped with a cold light lamp, stainless working late form, two arm rest , and auto-retrieve air gun, a waiting device, storage drawers etc. with required height.
- Voltage : 220V, 50Hz
- Power : 1600W
- Supply lines : Built in electric, gas and air supply lines
- Make : Europe, UK, USA, Japan  
---or Equivalent---

**(q) SPECIFICATIONS OF POLISHING MACHINE:-**

- Polishing machine, 2 speeds, Lathe / electro polishing unit.
- Power Supply : 230V -50 / 60 Hz
- Power : 400 – 500 W
- Speed : 1.400/2.800rpm
- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(r) SPECIFICATIONS OF MODEL TRIMMERS:-**

- Power Supply : 230V , 50 / 60 Hz
- Speed : 1400 – 1500 rpm
- Connection : Water
- Disk : DA 147 or equivalent
- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(s) SPECIFICATIONS OF HAND PIECE DISINFECTION**

- UV light disinfection with protective screen.
- Absorbed Power : 15 Watt
- Power Supply : 230V -50 / 60 Hz

- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(t) SPECIFICATIONS OF DENTAL CAUTRY (ELECTRICAL SURGICAL CUT 50W):-**

- Electrical surgical cautry for precision surgery.
- Multi operating functions:- Pure Cut, Cut – Coagulum, Pure – Coagulum.
- Maximum safety for patient and operator.

❖ **The electro-surgical units complete with accessories:-**

- Hand piece
- 8 electrodes
- Ground plate
- Autoclavable
- Power : 50 Watts
- Power Supply : 230V -50 / 60 Hz
- Make : Europe, UK, USA & Japan  
---or Equivalent---

**(u) SPECIFICATIONS OF CO2 FRACTIONAL LASER SYSTEM**

- ❖ Laser Type : Ultra Pulse, 10600 nm.( 10.57 to 10.63)
- ❖ CO2 Tube : All metal sealed off Waveguide RF Tube.
- ❖ Output Energy : 60 watts (Max peak)
- ❖ Pulse duration : Up to 3000µs. (variable form)
- ❖ Scanning Size : 3x3mm~20x20mm. (adjustable)
- ❖ Density : 0.5~2.0mm/ 25-999 spots
- ❖ Spot Size : 120/300/600 um
- ❖ Aiming Beam : Diod Laser beam ( Light adjustable)
- ❖ Cooling System : Water/scatter coated cooling, contact cooling
- ❖ Lasa Emission Mode: Pulsed
- ❖ Scan Mode : Standard, Refresh, Breeze, Chill, Double
- ❖ RF Electrode : Dual Bipolar
- ❖ RF Output : 150 J/m<sup>2</sup>
- ❖ Country of Origin : Make: USA / Western Europe, Korea.

---Or equal---

**(v) SPECIFICATIONS OF PHOTOTHERAPY UNIT 3D**

**Safety Features**

- ❖ Failsafe feature prevent timer malfunction when in the “On”: position.
- ❖ Digital Timer assures maximum 10 minutes treatment setting
- ❖ Key-locked ON/Of switch prevents unauthorized use.

**Dimensions**

- ❖ Full Body Coverage.

**Lamps**

- ❖ 10-TL 100W/01 FS 72311nm Narrowband (NBUVB) Lamps/UVA Lamps.

**Electric Rating**

- ❖ 110-120 VAC, 50/60 Hz
- ❖ 8.0 Amps with grounded plug
- ❖ Power Required : 6 KVA minimum 24 tubes
- ❖ Chokes : Special UV Chokes
- ❖ Cooling System
- ❖ Country of Origin : Make: USA / Western Europe  
---or Equivalent---

**(w) Blankets Double Ply Single bed as per sample:-**

**(x) Mattress Foam Single Bed Standard Size:-**

For details information and sample of Item **(S No w & x.)**, please visit at PAC hospital or contact on Tele 051-9099-2352

**STANDARD / SPECIAL CONDITIONS FOR ALL ABOVE MENTIONED ITEMS**

- (a) Payment as per PAC Board purchase procedure.
- (b) Two years Warranty/Guarantee required.
- (c) Store on receipt will be accepted after inspection by EME staff of PAC Hospital
- (d) Store must be latest production series (factory new).
- (e) Packing of the store should be adequately done with absolute resistant material so as to avoid from any damage during transportation.
- (f) Item will be accepted in accordance with standard specifications provided in the indent at consignee premises subject to acceptance by user and EME staff of hospital.
- (g) TO brochure & Technical manuals (02 Copies) are needed to be provided by the supplier.
- (h) Training on operation, maintenance and calibration of machine at PAC premises.
- (j) Free of cost installation & commissioning at PAC Hospital by the supplier.
- (k) At least ten years after sale spare supportability is to be provided.

2. Sealed Technical & Commercial quotations with the title “**Tender for Electro Medical Equipments / Miscellaneous**” must be submitted to the undersigned on **26 March, 2019** up to **1030 Hrs** positively. **5% Bid Security** must be present in the sealed Commercial Quotation. The photocopy of **5% Bid Security** with black out value column should be present in the sealed Technical Quotation to ensure that original 5% Bid Security is present in the sealed Commercial Quotation. Tenders would be opened at **1100 Hrs** on the same date.

3. Previous performance of the suppliers will be considered while accepting / rejecting the tender.

**OFFICER COMMANDING**  
PAC Hospital Kamra  
(ATTOCK)  
051-909902352