



JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.

(Public Sector Undertaking of the Government of Jammu and Kashmir)

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NOTICE

Subject : E-bid for the finalization of Annual Rate Contract for the procurement of Dental Machinery & Equipment – regarding.

In light of the decisions taken during the pre-bid meeting held on 14.05.2016 & recommendations/suggestions made by the technical experts from Medical Education Department, J&K State, on the basis of suggestions made by the firms/bidders, the Annexure AVI regarding the technical specifications of Dental Machinery & Equipment uploaded vide No. NIT/JKMSCL/MACH/DEN/2016/17, DATED 27/04/2016 has been **revised** and is being uploaded along with this notice after making necessary incorporations/amendments.

All the bidders are required to upload the technical bid in accordance with the amendments made thereof & submit their e-bids through e-portal www.jktenders.gov.in as per amended specifications. The amendments/modifications are also available on www.jktenders.gov.in, www.jkmscl.nic.in, www.jkmsclbusiness.com, www.jkhealth.org & www.jknhm.com.

Please Note:

- 1. Those firms/bidders who have already uploaded his/her bid are required to revoke their uploaded bid & re-upload as per the revised tender specifications.***
- 2. Only Technical/Financial bids uploaded as per revised corrigendum shall be Considered for evaluation.***

Sd/-

(Dr. Yashpal Sharma)
Managing Director

No.: JKMSCL/Den/Mach/Corg/2016/1470-71

Dated:18.05.2016

Copy for information to the:-

1. General Manager Adm., JKMSCL, Jammu.
2. Financial Advisor, JKMSCL, Jammu.
3. IT Section, JKMSCL for inf. & n.a

Annexure AVI

Technical Specifications : LIST OF DENTAL MACHINERY & EQUIPMENTS Code No. DE

Code No.	Name of the equipment with full specification	Unit
DE 0001	<p>Panoramic and Cephalometric imaging system with two sensors (Fully Digital) : (Catalogue based)</p> <p>Technical Data : Focal spot size : 0.5x0.5mm/0.5 mm IEC 336 Anode Voltage : 60-80 KV Operating voltage : 220 v Frequency : 50-60 Hz Total filtration : minimum 2.5 mm Al Exposure time : pan-less than 20 sec Ceph-less than 10 sec.</p> <p>Imaging programmes :</p> <ol style="list-style-type: none"> 1. Standard panoramic programmes Standard panoramic programme TMJ programmes PA Sinus programme Cephalometric programmes Child (Paediatric) mode for each programme to reduce dose 2. Patient positioning : Standing/wheel chair accessible 3. Computer: with latest specification. LED monitor, DVD writer and printer compatible with the machine. 4. Printer: separate printer fully digital compatible with the machine capable of supporting multiple film size, expandable, speedy output & connectively. 5. Film loading: day light film loading. 6. Operating environment : 10-30 c 7. Should provide 1000 X-ray compatible with machine. 8. Training of doctors/X-ray technician at site for minimum 10 days <p>Should be USFDA/European CE/BIS approved.</p>	Each
DE 0002	<p>Dental chair : (Sample based)</p> <p>Electrically operated dental chair (fully loaded) : Body contoured electrically operated dental chair with zero programme with pu moulded handle right arm rotatable for easy access. Unit fitted with operating light with LED bulb with single surface glass reflector, auto water connection for spittoon and tumbler. Suction, <u>Airotor hand piece high & low.</u> Micromotor <u>upto 35000 rpm</u> with digital display of speed, LED light cure unit 6Three way syringe -02 nos. X-ray viewer, SS instruments tray, multifunction foot control, euro dental operators stool with pneumatic piston for up & down movement.</p> <p>Should be USFDA/ European CE/BIS approved.</p>	Each

	Piezo electric ultrasonic scaler with minimum 3 tips only.	
DE0004	X-ray film cassette for extra oral radiography (Catalogue based) Green sensitized size 30x18 cm	Each
DE0005	X-ray film cassette for extra oral radiography (Catalogue based) Green sensitized size 8x10 inch	Each
DE0006	X-ray film cassette for extra oral radiography (Catalogue based) Green sensitized size 6x8 inch	Each
DE0007	Autoclave front loading : (Catalogue based) Capacity : 22 ltrs Voltage : AC 220 V Frequency : 50/60 Hz Class : B Should be USFDA/ European CE/BIS approved	Each
DE0008	RVG with Laptop (Digital Radiography machine) (Sample based) : RVG with cord CMOS sensor with true resolution 20lp/mm or more Laptop : with latest configuration compatible with the RVG Laser printer black and white with USB connectively. Should be USFDA/ European CE/BIS approved	Each
DE0009	Hydrosolder Machine : (Catalogue based) High power hydrogen soldering unit for all dental soldering applications. Must consist of adjustable gas production with indicator lamp. Indicator for gas pressure, maines, reserver level, electro light interruptions, retractor, flued unit, separator, and safety pressure switch comply with the latest pressure vessel regulations. Hand piece with rotary value and hand piece stand. Current details 220v & 50 Hz/temp of 220V or more. Should be USFDA/ European CE/BIS Approved Should produce internal oxyhydr flame	Each
DE0010	Air compressor : (Sample based) Monobloc oil free, medical grade Airtor air compressor 1.00 HP, minimum noise fitted on MS tank Tank capacity : minimum 30 ltrs. Dimensions : 300 mm x 400 mm Should be USFDA/ European CE/BIS Approved	Each
DE0011	Electro Polisher : (Sample based) Elecatropolisher system is designed to improve finished part quality and increase production output particularly when compared to mechanical surface finishing process. A digital timing controller (to 0.1 sec) together with digital temperature control, ensures repeatable, reliable surface finishing, it should have a maximum polishing output of 24 volt DC at 50 amps. Cabinet Dimension 20ö W x17ö Lx18ö H (aaprox). Tank holding capacity of 1 litre. Current capacity 50 amps construction all stainless steel, RFI filtered, UL listed electrically 120 AC Should be USFDA/ European CE/BIS Approved	Each
DE0012	Cephalometric tables : (Catalogue based) Conveniently angulated working table design to view and trace radiographes with a back light and translucent plastic sheet.	Each

	Should be USFDA/ European CE/BIS Approved	
DE0013	<p>Blow/soldering torch (Sample based) An equipment used to solder different metals. It produces a thin flame using an inbuilt lighter for ignition. Works on butain gas. Has an adjustable flame knob.</p>	Each
DE0014	<p>Mobile suction unit heavy duty (Catalogue based) Voltage (Hz)=110/60-240/50. Power 370 watt Vaccume pressure (KPa) = -11 Airflow 350 L per minute Dimension 360x300x784 mm Should be USFDA/ European CE/BIS Approved</p>	Each
DE0015	<p>Model trimmer (Catalogue based) 12ö Model trimmer 16Wattx17Hx15D. Orthodontic work table. Coarse abrasive wheel installer. 24ö length of drain hose installed. 13ö length of plastic water hose installed. Package of 4 rubber feet. Elastic water valve. Should be USFDA/ European CE/BIS Approved</p>	Each
DE0016	<p>Autoclave Singe drum (Catalogue based) Micro processor based wet, dry, high and low cycle, 134 degree or more Should be fully automatically furnished with a high grade electronic micro processor control autoclaves with fractioned gravity system and offer both sterilization programme of the class N as well as class S as well as pressure and temperature sensor for recording and monitoring to sterilization parameters pressure, temperature, time and a display to show all important information, the autoclave should satisfy the strict requirements. The feed water should be in the built water storage tank and is employed in the cycle. Should be USFDA/European CE/BIS Approved</p>	Each
DE0017	<p>Plate Adaptor (230V) (Catalogue based) for orthodontics use - Should be USFDA/European CE/BIS Approved. - Pressure moulding device to fabricate orthodontic appliances. - Should have pallet drawer model cup, model platform & air filter.</p>	Each
DE0018	<p>Spot welder (Catalogue based) 220 volt main supply indicator lamp for power & function, switch for operating range. High off, low welding strength. Older welder selector switch, thumb activated welder switch safety fuse. Copper electrodes for welding, carbon tipped electrodes for soldering. Electrode holder with lock screw switch allows easy and rapid change of electrodes.</p>	Each

DE0019	<p>Automatic Amalgamator (Catalogue based)</p> <ul style="list-style-type: none"> ➤ Automatic/fully digital. ➤ Powder/liquid dispenser or capsulated system. ➤ Adequate programme mixing time to time. ➤ 5⁰C to 40⁰C controlled by the microprocessor, noiseless, stable operation. ➤ Electrical safety standard met. ➤ LED display with various speed selections. ➤ Should be USFDA/ European CE/BIS Approved 	Each
DE0020	<p>Air rotor (Sample based)</p> <p>Hand piece push button with 3 spare cartridges Mini Head, RPM 3,70,000 ó 4,00,000 Auto clavable, push button CE certified ceramic bearing Should be USFDA/ European CE/BIS Approved</p>	Each
DE0021	<p>Endodontic motor (Catalogue based)</p> <p>Endodontic motor with inbuilt apex locator (4th Generation & above)</p> <ul style="list-style-type: none"> - Endodontic motor with integrated apex locator - Programmed settings for rotary endodontic files - Digital display - Attached hand piece - Auto-stop/reverse/forward in rotary mode. - Should be USFDA/ European CE/BIS Approved 	Each
DE0022	<p>Surgical Operating Microscope (Catalogue based)</p> <ul style="list-style-type: none"> - 5 step or more magnification changer. - Binocular Tube : 0-180 or more degree or more tiltable binocular tube. - Illumination System : LED light source. - Handgrips : pair of adjustable handgrips. - Suspension system : rotary floor stand on castor wheels. - 50:50 beam splitter integrated high definition video camera. - Integrated DSLR camera adapter with DSLR camera 12 MP or above resolution. - Laptop to be supplied - Should be USFDA/ European CE/BIS Approved 	Each
DE0023	<p>Device for Heating G.P (guttaa percha obturation system) (Catalogue based)</p> <p>(hot vertical condensation for injectable thermo-plasticized gutta percha obturation system)</p> <ul style="list-style-type: none"> - Dual device for obstruction combined down pack and back fill unit. - Optimal thermal response tips for convenience - Uses gutta percha in pellet form - Flexible cannulas with different gauge needles suitable for curved root canals. - Easy control of heating temperature/flow rate of gutta percha. - Should be USFDA/ European CE/BIS Approved 	Each

DE0024	<p>LED Light Cure (Catalogue based)</p> <p>LED, cordless, rechargeable battery operated, multiple modes for curing, intensity should be 1600 Mw/cm² or above. Should be USFDA Approved/BIS Approved/European CE</p>	Each
DE0025	<p>Automatic Alginate mixer (Catalogue based)</p> <ul style="list-style-type: none"> - Automatic trouble free alginate mixing at the touch of button. - Time saving process takes only seconds to complete. - Consistent, smooth and bubble-free mixing each and every time. - Customised memory presets programmes available. - LED display shows mixing time and memory presets. - Should be USFDA/ European CE/BIS Approved 	Each
DE0026	<p>Sterilization pouch sealing machine (Catalogue based)</p> <p>Instrument sterilization pouch sealing machine. Dual cutting and sealing action. Thermostatically controlled heater. Inserted blade cutter for easy and smooth cutting. Adjustable width reel holder. Should be USFDA/ European CE/BIS Approved</p>	Each
DE0027	<p>Conservative training simulator (Catalogue based)</p> <p>Torso type phantom head</p> <ul style="list-style-type: none"> A) Motorized simulator positioning controls phantom head with attachments for air rotor, suction, 3 way syringe etc. B) Delivery arm and instrument attachments. C) Simulator operating light. 	Each
DE0028	<p>Intra Oral camera (Catalogue based)</p> <ul style="list-style-type: none"> - Autofocus technology - Wireless camera for cable free connection. - White LED lightening for uniform and bright illumination. - Compatible with both computer and video monitors with seamless integration. - Focus range of 1 mm to infinity - USB 2.0 High speed interface. - Video resolution of 640 (H) * 480 (V) - Image resolution 1280 (H) * 960 (V) <p>Should be USFDA/ European CE/BIS Approved.</p>	Each
DE0029	<p>Hand Piece sterilization machine (Catalogue based)</p> <p>Fully automatic portable table top dental autoclave. One to two litre capacity for 10-20 hand pieces at a time. Voltage 220 volt or above. With cleaning and drying cycle. Top loading only. Should be USFDA/ European CE/BIS Approved</p>	Each

DE0030	<p>Apex locator (Catalogue based)</p> <ul style="list-style-type: none"> ➤ Advanced 4th generation & above of Apex locator. ➤ Software associated with automatic collaboration system. ➤ Should be associated with volume/battery/graph/root apex indicator with large colour display. ➤ Low power consumption with sounding alarms. ➤ Accuracy even in presence of electrolytes and not significantly affected by type of tooth, size of canal as size of file. ➤ Should be USFDA/ European CE/BIS Approved 	Each
DE0031	<p>Intra oral imaging plate system (Catalogue based)</p> <p>Digital image plate system Effective resolution (lp/mm) 20 or more all image plates for intraoral use scanner with touch screen. Should be USFDA/ European CE/BIS Approved</p>	Each
DE0032	<p>Ceramic firing furnace With pressing device with material & instrument kit (Catalogue based)</p> <ul style="list-style-type: none"> - Automatic pressable furnace. - For porcelain fused to metal and all ceramic prosthesis. - 100 or more completely controlled operational programmes. - Automatic continuation of programmes on brief power breakdown - Should be USFDA/ European CE/BIS Approved. 	Each
DE0033	<p>Burnout furnace/Oven (Catalogue based)</p> <ul style="list-style-type: none"> - Burnout furnace/oven - Safety designed digital with multiple programs. - Table top, voltage 220 volt or above. - Ceramic heating technology Automatic. - Digital display of temperature. - Programmable, - Should be USFDA/ European CE/BIS Approved 	Each
DE0034	<p>Casting Machine (Catalogue based)</p> <ul style="list-style-type: none"> - Induction casting machine for casting of inlays, crowns and bridges and cast partial frameworks, nickel chromium and cobalt chromium. - Should have touch button control panel with soft keys. - Casting temperature should be ideal for all commercially available precious and non precious metals. - Alloys fusion process should be clearly visible. - Low noise level and vibration free. Induction high frequency heating technology. Simple operation: load, melt, cast, compact design, motorized, ceramic crucible. - Should be USFDA/ European CE/BIS Approved 	Each
DE0035	<p>Bleaching Unit: (Catalogue based)</p> <ul style="list-style-type: none"> ➤ Advanced power curing light white bleaching lamp system. ➤ Dental handy high power LED teeth widening bleaching lamp light 	Each

	<p>system.</p> <ul style="list-style-type: none"> ➤ Tunable bleaching unit with microprocessor controlled times. ➤ Anti power selector mode of light intensity unit. ➤ Beep on completion of bleaching. ➤ Should be USFDA/ European CE/BIS Approved 	
DE0036	<p>Anaerobic gas jar (Catalogue based)</p> <p>Transparent anaerobic culture jar of 3.5 litres capacity with vacuum pressure gauge</p>	Each
DE0037	<p>Hard Tissue Laser: (Catalogue based)</p> <ul style="list-style-type: none"> ➤ Highest power and largest pulse direction range with menu of pre-programmed laser treatment and virtually unlimited applications. ➤ Wavelength - 2500-2940mm. Energy - upto 700mm. Power - upto 8 walls. Electricity - Multiple range. Sterility - Autoclavable handpiece ➤ Easy to use touchscreen with various customizable pre-settings with different applications. ➤ Easy access spray/heated water reservoir. ➤ Wireless footswitch. ➤ Should be available as tipp/tipples handpieces. ➤ Scanning laser technology. ➤ Energy transmission through direct delivery system with adjustable control panel system. ➤ Adequate water spray flow frequency and energy levels on smart touch screen. ➤ Easy shift between hard and soft tissue applications during procedures. ➤ Optimal control of treatment parameters. ➤ Smallest handpiece for better access & visibility. ➤ Should be USFDA/ European CE/BIS Approved 	Each
DE0039	<p>Serological water bath (Catalogue based)</p> <ul style="list-style-type: none"> - Double walled chamber, inner chamber made of highly polished stainless steel. - Pyramid shaped lid - Temperature controlled by capillary thermostat - Chamber size : 350x350x175 mm (4 racks) - Should be USFDA/ European CE/BIS Approved 	Each
DE0040	<p>Paraffin wax bath (Catalogue based)</p> <ul style="list-style-type: none"> - Operating voltage : 220 volts A.C - Thermostatic for temperature control (0-100 degree) - Main indicator/load indicator - 2000 w immersion heater - Melting 50 degree for use in paraffin wax bath. 	Each
DE0042	<p>OPG X-ray viewer (Catalogue based)</p> <p>Double film</p>	Each

	Angle adjustments preinstalled film clips	
DE0043	<p>Distillation water purification system (Catalogue based)</p> <ul style="list-style-type: none"> - Cabinet model, automatic water distillation apparatus incorporated with advanced microprocessor based electronic circuitry. - Alpha numeric LCD to show all the message that correspond to the running of machinery. - Alarm system which beeps when user attention iss required. - Provided with replacable silica sheathed. - Boiler is provided with a replacable side over flow for early draining of water boiling chamber. - Electrical power 220/240 volts. - Output capacity 4.0 ltr per hour. - Ph = 5.5-6.0 conductivity (in US/cm) :< 3.0. - Power rating : 3.0 KW. Single stage additional inbuilt safety features like gate valve. - Flow switch, temperature. 	Each
DE0044	<p>Front loading autoclave (Catalogue based)</p> <p>W.P ó 2-3.5 Kg/cm sq Chamber Kgf/Cm sq Jacket 4-5 kgf/cm sq Ultraquick swiftlock door mechanism Should be USFDA/ European CE/BIS Approved</p>	Each
DE0045	<p>DE0045A Electric Micromotor saw with hand pieces (Catalogue based)</p> <ul style="list-style-type: none"> - Speed 30,000 rpm or above. - Integrated cooling system. - Rotation bidirectional. - Rotation should be controllable. - Console should display speed and direction. - Should be supplied with reciprocating saw, oscillating saw, saggital. - Should be supplied with burs (20) - Features : Control Box with 3 hand pieces. - A) Reciprocating - B) Oscillating - C) Saggital <p>DE0045B</p> <ul style="list-style-type: none"> - Saw blades (each) <p>Should be USFDA/ European CE/BIS Approved</p>	Each
DE0046	<p>Micromotor (Catalogue based)</p> <p>Micromotor with straight surgical handpiece 30000 RPM Should be USFDA/ European CE/BIS Approved_</p>	Each

DE0047	<p>Suction apparatus (Catalogue based) (Low Volume)</p> <ul style="list-style-type: none"> - Motorised suction. - Flexible suction tips - Suction flow greater than 100 ml per minute - Should be USFDA/ European CE/BIS Approved 	Each
DE0048	<p>Punch Biopsy set (Catalogue based)</p> <ul style="list-style-type: none"> - Steel, rust proof. - 3 mm to 4 mm punch - Plunger - Scissors. 	Each
DE0049	<p>Piezoelectric Bone Surgery System (Catalogue based)</p> <ul style="list-style-type: none"> - Should have piezoelectric control, hand piece, foot paddle, hand piece. - Should operate through ultrasonic vibrations of 25000-40000 cycles/sec, - Vibration amplitude 30-100 microns - 60 watt power - Autoclavable cable connected to hand piece with integrated cooling - Foot paddle with option for irrigation - Foot paddle power output level - Option for selection between 2 hand pieces at a time - Console should have power controls at all quality of bone (D1 D2 D3 D4) - Should have programme selection for bone cutting and soft tissue decortications. - Ultrasonic neutron generator - 10 saw tips (left and right saw) - Supplied with sinus lift tips - Tips with inbuilt slot for irrigation - Cutting tips should have depth indicator. - Should be USFDA/ European CE/BIS Approved 	Each
DE0050	<p>Trauma Kit (Catalogue based)</p> <ul style="list-style-type: none"> - Screw holder 1.5 mm, 2 mm, 2.5 mm - Screw driver 1.5 mm, 2 mm, 2.5 mm - Plate holder - Plate bender - Depth guage plate cutter - Bone holding forceps - Wire cutter - Wire twister box. - Should be USFDA/ European CE/BIS Approved 	Each
DE0051	<p>Biodegradable bone plate kit (Catalogue based) 1.5 mm CPC system instruments 1.2 mm drill bit with 5 mm stop</p>	Each

	<p>1.5 mm bone tap 1.5 mm self tapping drill bit 2.0 mm CPC system : 2.5 CPS Mandibular system : A. Universal screw driver. B. Thermo water bath. Universal instrument tray. Should be USFDA/ European CE/BIS Approved</p>	
DE0052	<p>Fibre optic laryngoscope with monitor (Catalogue based)</p> <ul style="list-style-type: none"> - Fibre-optic Bronchoscope with light source. - Camera with monitor - Different fibrosopes for infants, paediatrics and adults. - Working length > 200 mm - Tip diameter of fibroscope 1.8 mm to 6 mm - Angle of view of different fiberscope 70 degree to 110 degree. - Should be USFDA/ European CE/BIS Approved 	Each
DE0053	<p>Rubber dam kit (Pedo) (Catalogue based) U shaped frame (stainless steel and plastic) rubber dam clamps - winged & wingless with colour coded clamps, punch, template & retainer.</p>	Each
DE0054	<p>Rubber dam kit (Adult) (Catalogue based) U shaped frame (stainless steel and plastic) rubber dam clamps - winged & wingless with colour coded clamps, punch, template & retainer.</p>	Each
DE0055	<p>Dental chair (Pedo) (Catalogue based) Adjustable back rest unit mount chair without back. Basin should be high quality porcelain. LED light with 3 intensities and 3 axis movements and should be 3 to 6 watts. LED x-ray viewers. Stainless steel instrument tray for keeping instruments. Multifunction food control. Monitor mount arm with integrated wiring. High velocity continuous suction motor : should be well capulated total noise free with insulated cover. ultra push ait rotor hand piece with mini head. Brushles micro motor with speed range of 20000-40000 RPM. 3 way syringe. Piezoelectric scaler with minimum of three tips. Light curing unit. Should be USFDA/ European CE/BIS Approved</p>	Each
DE0057	<p>Glass Bead sterilizer (Catalogue based) Indian Make (Green & Red indicators)</p>	Each
DE0058	<p>Hanua vide view articulator (Catalogue based)</p> <ul style="list-style-type: none"> - Semi adjustable articulator capable of face bow transfer. - Contains articulator, spring bow, contains spring bow Mounting plates. - Should be USFDA/ European CE/BIS Approved 	Each

DE0059	Whipmix semi adjustable articulator (Catalogue based) Contains articulator with quick mount face bow and mounting plates. Should be USFDA/ European CE/BIS Approved	Each
DE0060	Lab. Micro-motor (Sample based) Working speed upto 40000 rpm. Torch control 5.5 Ncm sterilizable. For heavy trimming (both metal and acrylic) Should be USFDA/ European CE/BIS Approved	Each
DE0061	Dental flask (Sample based) 3 piece. Ejector type with guide pins. Brass 38/8öLx4öwx21/3ö H. For heavy trimming (both metal and acrylic)	Each
DE0062	Maxillo facial flasks (Sample based) Small size made up of cast metal with clamps Flasking of maxillofacial prosthesis.	Each
DE0063	Maxillo facial flasks (Sample based) medium size made up of cast metal with clamps Flasking of maxillofacial prosthesis.	Each
DE0064	Maxillo facial flasks (Sample based) Large size made up of cast metal with clamps Flasking of maxillofacial prosthesis.	Each
DE0065	Acrylizer (Catalogue based) Temperature control with dial with indicator adjustable (upto 110 °C) Time (adjustable with indicator upto 2 hours) Thermostate, capacity of more than 20 ltrs	Each
DE0066	Pnematic crown remover (Catalogue based) Stainless steel with three to five attachments for removing crowns. Mechanism of removal by compressed air. Attachments with clamps, forceps, loops. Adjustable speed force.	Each
DE0067	Alchol Torch (Sample based) Adjustable flame. Finger tip control. Air pump Provides needle point/brush type flame.	Each
DE0068	RVG with desk top (all in one) (Catalogue based) <ul style="list-style-type: none"> - RVG with cord CMOS sensor with true resolution 20 lp/mm or more. - Sensor size no. 1 - Desk top computer (all in one) - 4th generation intel (R) Core (TM) i5 processor or more. - Windows 8 or more preinstalled registered 4 GB or more RAM 1 TB or more Hard Drive combo DVD ROM 17ö or more LED TFT key 	Each

	<ul style="list-style-type: none"> Board & Mouse wireless - UPS : capacity 800 VA or more. - Laser printer black and white with USB connectivity - Should be USFDA/ European CE/BIS Approved 	
DE0069	<p>Suction apparatus (Catalogue based) (High section)</p> <ul style="list-style-type: none"> - Motorised suction can be installed upto 7 meters from the point of suction. - Reservoir having not less than 1 litre capacity. - Suction tips. - Suction power not less than 0.45 kwh. - Flexible suction tips. - Oil less vacuum source. - Vacuum regulator - Vacuum meter - Suction flow > 200 ml per minute. - Should be USFDA/ European CE/BIS Approved 	Each
DE0070	<p>Protective glasses (Catalogue based)</p> <ul style="list-style-type: none"> - Clear protective glass. Wrap around type. Antifog. - Ultraviolet protective glass. Antifog. UV protected. Wrap around. Eye protection. 	Each
DE0071	<p>Pneumatic chisel for stone remover (Stainless steel big size) (Catalogue based)</p>	Each
DE0072	<p>Dental X-Ray Unit (Sample based)</p> <ul style="list-style-type: none"> ➤ It should be wall or floor mounted. ➤ Tube voltage: 60-70 kvp. ➤ Tube current: 8-10mA. ➤ Focal spot: 0.7mm sq. To 15mm sq. ➤ Focal length: 20-30 cm. ➤ Exposure time: 0.01 sec to 2 seconds. ➤ Line current Max: 4 Ampere. ➤ Target angle: Range 19⁰ to 23⁰. ➤ Max. Momentary Related electronic power: 1.3 kw to 1.8 kw. ➤ Inherent Filtration: Min 0.6 mm A1×2.1mm A1. ➤ PID and Tube Head should be LEAD coated. ➤ Line voltage: 230v 50Hz. ➤ Compatible with digital imaging system. ➤ Unit should be AERB APPROVED & ISO certified. ➤ Manual X-ray developer. ➤ Should be USFDA/ European CE/BIS Approved 	Each
DE0073	<p>Digital Pulp Tester: (Catalogue based)</p> <ul style="list-style-type: none"> ➤ It should have preset speed mode (High, Low speed). ➤ Convenient to operator for patient use. ➤ Maximum stimulus-80. ➤ With standard battery operated. 	

	Should be USFDA/ European CE/BIS Approved	
DE0074	<p>Automatic X-ray Film developer (all intra oral x-ray films). (Catalogue based)</p> <ul style="list-style-type: none"> ➤ Should be suitable for all intra oral film size: Size 0 for children (22 x 35 mm). Size 1 for anterior (24 x 40 mm). Size 2 for posterior (31 x 41). Occlusal film size (57 x 76 mm). ➤ Processing time : maximum 5 minutes for entire processing of the film. ➤ Temperature of developer should be between 83 to 85 ° F. <p>Should be USFDA/ European CE/BIS Approved</p>	
DE0075	<p>Paraffin Block Cabinet (Catalogue based)</p> <ul style="list-style-type: none"> - Shall made of steel. - Dimension : 11.5x12.5x3 inch(29.2x31.8x33 cm) - Drawer : 10-15 - The nuostatic scientific - Multiple freeze racks 	Each
DE0076	<p>Classic LED ring for digital SLR camera's with 48 LED light (Catalogue based)</p> <p>can be used to shoot at very close distance, especially for the clinical orth/dental photography. It can be adjusted to semi or full light and the light remains stable. Color temperature is about 500 K. The light can be used continuously upto 1.5 hours, six kind of adaptor rings are required to meet the requirement of different makes of camera's.</p> <p>Should be USFDA/ European CE/BIS Approved</p>	Each
DE0077	TO BE READ AS DELETED	Each
DE0078	<p>UV chambers – 02 tubes (Catalogue based)</p>	Each
DE0079	<p>Digital Physio dispenser (Catalogue based)</p> <p>It should be speed control, torque control, liquid flow calibrations.</p> <p>Should be USFDA/ European CE/BIS Approved</p>	Each
DE0080	<p>Speed reduction hand piece for implant placement (Catalogue based)</p> <p>Should be USFDA/ European CE Approved</p>	Each
DE0081	<p>Digital Local Anaesthesia Delivery system (Catalogue based)</p>	Each
DE0082	<p>Autoclave (Catalogue based)</p> <p>Class N autoclave with dry cycle minimum 15 litre capacity</p> <p>Should be USFDA/European CE/BIS Approved</p>	Each
DE0085	<p>Piezo electric ultrasonic scaler with minimum of 3 tips. (Catalogue based)</p>	Each

DE0089

Dental Chair (Basic) (Sample based)

Each

1. Description of Function.
 - 1.1 Dental Chair is the Dental Chair required for dental examination and dental procedures.
2. Operational Requirements:
 - 2.1 Physiological Dental Chair (Basic) operated by electricity.
3. Technical Specifications:
 - 3.1 Dental unit with modular delivery system.
 - 3.2 It should have two 3 way syringes (tip autoclavable).
 - 3.3 It should high speed Air Rotor terminal supplied with original European CE Mark 380000 rpm handpiece.
 - 3.4 Should have one brushless micromotor (40000rpm) terminal with straight and contra angle hand pieces.
 - 3.5 It should have one in-built Piezon Ultrasonic Scaler (frequency 28-36 KHz) with 8 scaler tips.
 - 3.6 It should have LED/halogen Light with sensor (min 25,000 LUX).
 - 3.7 It should high and low motorised suction with auto drain and flush system.
 - 3.8 Removable auxiliary tray (stainless steel).
 - 3.9 Auto connection for tumbler and spittoon.
 - 3.10 It should have LED based X-ray viewer.
 - 3.11 It should be provided with one doctor's stool with adjustable backrest tilt including an adjustable ring for foot rest.
4. System configuration Accessories, spares and consumables
 - 4.1 System as specified.
 - 4.2 All consumables required for installation and standardization of system to be given free of cost.
5. Environmental factors
 - 5.1 The unit shall be capable of operating continuously in ambient temperature of 10-40 deg. C and relative humidity of 15-90%.
 - 5.2 Complete installation of the system including water input and drainage system has to be installed.
6. Power supply.
 - 6.1 Power input to be 220-240VAC, 50Hz.
 - 6.2 Five KV Servo Voltage Stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz)
7. Standards, safety and Training
 - 7.1 Should be USFDA/European CE/**BIS approved product**.
 - 7.2 Manufacturer/Supplier should have ISO certification for quality standards.
 - 7.3 Electrical safety conforms to standards for electrical safety IEC-60601/IS-13450.
8. Documentation
 - 8.1 User/Technical/Maintenance manuals to be supplied in English.
 - 8.2 Certificate of calibration and inspection.
 - 8.3 List of important spare parts, hand pieces and accessories with their part number and costing.
 - 8.4 Log book with instruments for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

Air Compressor (PART B):

Monobloc oil free, medical grade. Air rotor compressor 1.00 H.P

Minimum noise fitted on MS tank

Tank Capacity : 30 ltrs

Dimensions : 300 mm x400 mm

DE0090	Test Tube Shaker (Catalogue based) <ul style="list-style-type: none"> - LED display for speed - Speed and time setting knob for control - Speed range 40-240 rpm - Max load 30x15 ml - Platform size 250x230 Mm 	Each
DE0091	Tissue floatation bath (Catalogue based) <ul style="list-style-type: none"> - Double walled tissue floatation bath used to stretch and dry cut tissues - Temperature is controlled by capillary type thermostat - Bath siz (inner) 225x70 mm (Diax Depth) - Temperature range 50 to 70 degree celcius 	Each
DE0092	Slide warming table (Catalogue based) <ul style="list-style-type: none"> - Size 600x150 mm - Stainless steel top - Outer chamber made of mild steel sheet with powder coating - The surface temperature controlled by hydraulic type thermostat - Fitted with pilot lamps for indication of heat and mains - Suitable to operate on 230 V 	Each
DE0093	Research Microscope (with Phase contracts, dark field, polarization) integrated with camera and compatible computer with LCD display and printer & photomicrography attachments & image analysis software : (Catalogue based) <ul style="list-style-type: none"> - Optical system : infinity corrected system. - Focus : vertical stage movement 1 micron per fine stroke. Adequate space for keeping two sides together comparison. - Illuminator : 12 V 100 W Halogen bulb (pre-centres). Light preset switch for photography. Eco switch for energy saving, switch off the light when user moves away from the microscope. Built in filters (LBD-IF; ND6; ND25 and gradation filter for even illumination). - Observation Tube : trinocular observation tube inclined at 30 degree with field of view 22 mm. Inter papillary distance 50-76 mm with three position beam splitter (100/0, 20/80, 0/100) - Eye piece : wide field paired 10X eyepiece with Diopter adjustment with field of view 22 mm - Nosepiece : Sextuple revolving nosepiece with a slot for analyser or DIC slider. - Objectives : 1. Plan Achromat 4X N.A 0.1W.D.18.5 mm 1. Plan Achromat 10X phase 2. Plan Achromat 40X phase 3. Plan Achromax 100X0 - Stage ceramic coated stage with right hand control - Condensor : Phase contract, Darkfield (N.A 1.1) - Phase contract, for 10X-100X, darkfield : for 10X-100X (upto N.A 0.80) - Polarizer and analyst attachment. - The system should be upgradable to flourance attachment with atleast 7 filter positions in addition to one position for bright field. <p>Camera</p> <ul style="list-style-type: none"> - High resolution dedicated colour cooled CCD camera with 5 mega pixel or more resolution. - Live display mode 2/3ö high density CCD chip and minimum 25 frames per second at full field of view. 	Each

	<ul style="list-style-type: none"> - Image analysis software should have features like linear measurements, time lapse, image processing, snap/movie acquisition, line profile, gallery view, annotationsm data exports and stastics, multi-dimensional imaging processing. - Computer system and prinmter of good make with internal memory upto 01 TB - LCD display minimum of 40 inches Photomicrography attachments & image analysis software. - Compatible with microscope. 	
DE0094	<p>Stereozoom microscope with camera and camera attachments (Catalogue based)</p> <ul style="list-style-type: none"> - Zoom ration 1:17 - Objective zoom range : (0.65x4.5X) - Magnification : Min. 115 times with 1X objective and 10X eyepiece and max 690 times with various combination of eye pieces and objective. - Eye piece : 10X (F.No22) - Eye piece tube : 30 optical path switching : 2 steps 100%, binocular 50%/camera without beam splitter. Should allow the quick change between stereoscopic view and axial light path for the camera. - Illumination : LED base system enabling file control of transmitted and reflected illumination for bright and even images. - Objectives : 1X Apo N.A 15W.D 60 mm with resolution not less than 9001/mm or more. - Nose piece : Dual nose piece - Camera and camera attachments. - Compatible with microscope. 	Each
DE0095	<p>Bacteriological Incubator (Catalogue based)</p> <ul style="list-style-type: none"> - Chamber size (mm) 450x450x450 - Double walled outer body - M.S Sheet epoxy coated - Glass wool insulation in between the chamber and opter body - Fitted with thermostat to control tempterature + 5 degree - Door with double viewing windoe with perforated adjustable shelves. - Two indicators, ON/Off switch works on 220/230 volts supplied cord. 	Each
DE0096	<p>Papoose Board (Catalogue based) : Having 3 sets of opposing canvas flap with Velcro fasteners Different sizes along with accessories Small ó 6 ¾ x29 Regular : 12x36 Large 12x48 Extra large 17x60 Accessories : Head immobilizers (small, regular and large) flap extenders</p>	Each
DE0097	<p>Electronic dentine measuring device : (Catalogue based) Having digital LED read out</p>	Each
DE0098	<p>Night guard machine with vaccum pressure (with kit) (Catalogue based) Thermo forming unit for fabrication of night guards, bite plates, integrated compressor and reserved compressed air tank (300 Tp-ci) touch less temperature sensor and programmable touch panel.</p>	Each
DE0099	TO BE READ AS DELETED	Each

DE0100	TMJ Arthroscope (Catalogue based) With digital endoscopic camera system Single chip camera, resolution of > 450 lines with LCD /TFT Telescope ; light source and fiber optic cable Shaver system Arthroscopy instruments ó arthroscopic sheath/cannula, trocar and obturaator, artroscopic probe, punc forceps, rotary punch, grasping forcep, scissor straight, should be supplied with specific trolley.	Each
DE0101	C Arm (Catalogue based) With orbital movement, angulation ± 190; x-ray generator x-ray tube x-ray image intensifier cassette holder TV system Power supply	Each
DE0102	Anaesthesia work station (Catalogue based) With integrated ventilator, breathing circuit (adult & pediatric with all accessories), integrated monitor, vaporizer (isoflurance, sevoflurance, halothane) capnography. Accessories (anaesthesia gas delivery system, circle absorber) gas scavenging system, servo stabilizer, 120 minutes battery back.	Each
DE0103	Hand Piece for hanging engine (Catalogue based) Hand piece for hanging engine for trimming acrylic ROA, heavy duty micro motor must be DC supply with control unit	Each
DE0104	Digital Iontophoresis kit (Catalogue based) For dental hypersensitivity with high capacity rechargeable dry lead battery, charger in compliance with safety regulation meant for india. LED indicators for control of maximum and minimum battery charge level. Electric holder with different sponge holders for fluorization and medicaments to be supplied in the form of liquid and Gel.	Each
DE0105	Digital Camera (Catalogue based) Digital SLR camera FX-Faromat (36 megapixel) or more than 36 megapixel. With 18-105 mm Zoom lense, 50 mm lense, flush, ring flush	Each
DE0106	Video camera (Catalogue based) 3 CCD H. Dveidp camera complete kit with try pot	Each
DE0107	Sand blaster heavy (Catalogue based) Sand blaster for abrasion, foot pedal, neon lighting, carbide finishing nozzle, exhaust filter for pollution free atmosphere and large glass window for easy viewing. Casting with nozzle, pressure relief valve.	Each
DE0108	Vaccum mixer : (Catalogue based) With mixing beaker two mixing pot sizes available for investments, silicones and dental stones. Bubble free mixing of investments and stones under vaccum, Programmable timmer with buzzer at the end of the cycle with vaccum mixer.	Each
DE0109	Laser Pindex machine (Catalogue based) Main feature : precision laser pinhole drilling unit. The accurate drill hole positioning system and the easily adjusting working positing drill supplied with,	Each

DE0110	High speed alloy grinder (Catalogue based) For grinding, polishing, roughening, cleaning and brushing of metal and synthetic material, adjustable speed and rotation, safety features	Each
DE0111	Air Purifier (Catalogue based) For OT, poratbel type with ion scattering design, outer dimension 2ø2, rust proof remote control power supply 220v, very low noise level, electrostatic activated carbon filter.	Each
DE0112	Intra oral distracters (Sample based) Large, medium, small Type : Linear Multivectot, left and right 18 mm, 22 mm, 25 mm Titanium flexible, long port	Each
DE0113	Extra oral distracters (Sample based) Unifocal bifocal, Multifocal, left, right 18 mm, 22 mm, 25 mm	Each
DE0114	Reconstruction plate for mandible (Sample based) Locking non locking 2.7 or 2.5 mm screw Upto 20 holes Straight Angled (Rt/lt)	Each
DE0115	Bone Plate set (titanium) (Sample based) Screw length : 6 mm, 8 mm, 10 mm, 15 mm Screw size : 1.0 mm, 1.5 mm, 2.0 mm Bone plate size : 2.5 mm, 2 mm, 1.5 mm Bone plate of various lengths and shapes, drill bits 1 mm, 1.5 mm, 2 mm, plates ó 4 holed with gap (2 mm) (1.5 mm) 6 holed with gap 2 mm, 1.5 mm Curved plates 4 holed, 6 holed 3D plates	Each
DE0116	Functional Sinus endoscope (Catalogue based) 3 probe Oo ; 30o ; 40o Monitor, high definition nasal Endoscopy system with 3 chip camera	Each
DE0117	Transperacy adaptor (Catalogue based) To convey analogu radiographic data to digital radiographic data for computerizing cephalometrics compatible with window 8	Each
DE0118	Umbrella light reflectors (Catalogue based) To reflect shadowless light during clinical photography	Each
DE0119	Camera stand (Catalogue based) Camera stand for clinical photography	Each
DE0120	TO BE READ AS DELETED	Each

DE0121	Ultrasonic cleaner/bath (Sample based) For cleaning instruments 2-3 litres with hot water systems digital display	Each
DE0122	Oral irrigation device (Catalogue based) Dental water jet with 1200 ppm abd pressure with selection that ranges from 20 psi to 90 psi with jet tips and site specific tips	Each
DE0123	Electro cautery for dental use : (Catalogue based) Should have high frequency electrical radio current in the range of 15-75 million cycles/second of MGHZ with three classes of active electrodes, single wire electrodes, loop electrodes, heavy bulhier electrdoe.	Each
DE0124	Soft tissue laser (Catalogue based) Diode laser with wave length of 655 to 980 nm for gingioplasty and root canal disinfection	Each
DE0125	Implant kit (Catalogue based) 2 mm pilot drill, threaded iffset handle seating tips, latch reamers, mallets, sulcus reamers implant placement	Each
DE0126	Sinus lift instruments (Catalogue based) Kit	Each
DE0127	TO BE READ AS DELETED	Each

Note :

1. The catalogues/brochures of the item shall be submitted along with the demand drafts in a separate envelopes, 02 days prior to submission of online bids. The catalogues/brochures pertaining to the equipment information should be signed by the authorized signatory of the manufacturer.
2. The firm shall have to provide the samples of the items, wherever the samples have been asked.