

S. No.	Name of items	Detailed Specifications
01.	COMPUTER CONTROLLED LOCAL ANESTHESIA DELIVERY SYSTEM	The system should be supplied with following Items  Microprocessor Drive unit with aspirate and reset button, Power light and cartridge volume light, Foot control with airhose, Hand piece, All the accessories with suitable disposable needles at least 3000
02.	SURGICAL MICROSCOPE	<p>-Straight binocular head</p> <p>- Large field of view</p> <p>Standard 10x eyepieces</p> <p>6-step turret magnification system</p> <p>Dual light source: LED Light source</p> <p>True coaxial through the lens illumination</p> <p>Live video and Digital Camera capable system with accessories</p> <p>10x Wide Field Eyepieces with Dioptic Locks (12.5 x and 20x also available)</p> <p>250mm Objective lens standard (175 mm-400 mm available)</p> <p>Mounting Options include: Floor, Wall, Ceiling, High Wall and Table</p> <p>Limited Lifetime Warranty</p> <p>Ultra bright 50W Metal Halide light source that is the brightest standard light source in the market with a bulb life source for 2000 hours. In addition to the Metal Halide, every model comes with a standard backup. Halogen light source for uninterrupted operation. See how the best optics and best light make the Evolution xR6 the best</p>

	<p>choice for every operatory.</p> <table border="0"> <tr> <td>Magnification Range 1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>2.3x</td> <td>3.2x</td> <td>5X</td> <td>8.2X</td> <td>12.8X</td> <td>19X</td> </tr> </table> <p>Field of View 72mm      50mm 35mm 20mm 13mm 9mm</p> <p>0-180 degree inclinable head to rotate from 0 to 180 degrees. Adaptable cameras include DSLR, Point and Shoot, Camcorders and CCD Cameras. Angle rotation device allows the user to change the direction of the optic pad without changing the direction of the binocular head. Eyepieces come with either a 10x or 12.5x eyepieces.</p> <p>CCD Color camera- It offers a high resolution 1 chip CCD Color Camera.</p> <p>Video and Camera Adapters- It offers video and digital camera adapters to allow the addition of a digital camera for still images or a video for a live video option.</p> <p>Objective Lenses- Scopes come with a standard objective configuration of 250mm. Other objective lengths are available from 175-400mm, which are easily interchangeable.</p> <p><b>OR</b></p> <p><u>Head mounted Microscope</u></p> <p>Working distance : 300 mm to 700 mm (11.81 to 27.56 inches)</p> <p>Field of view : 30mm to 224mm (1.18 to 8.82 inches) with standard eyepieces</p> <p>Zoom : Stepless, controlled via footswitch, standard eyepieces: 20x (2.9-7x), Interchangeable eyepieces I:14x (2.0- 4.8x)(optional), interchangeable eyepieces II :26x (3.75- 9x)(optional)</p>	Magnification Range 1	2	3	4	5	6	2.3x	3.2x	5X	8.2X	12.8X	19X
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		<p>Focus : Autofocus/speed focus/manual focus.</p> <p>Individual vision correction : Widefield eyepieces for eyeglass wearers Diopter setting for individual vision correction. Integrated coaxial light shadow free illumination of the working area at every working distance. Integrated autofocus camera High-quality documentation from the user's point of view, ½ inch color CCD, PAL or NTSC, compatible with every S-VHS connector.</p> <p>Hygiene: Should be possible to disinfect all parts. Transport 2 stable aluminium cases for transfer from one place to another</p> <p><u>Medical Illumination System</u></p> <p>Metal halide light source : Maximum light efficiency, 200 W</p> <p>Colour temperature : 5500-6000 degrees Kelvin, daylight illumination</p> <p>Adjustable brightness, Optimum illumination at every working distance</p> <p>Filter : External orange filter.</p> <p><u>Data box and Footswitch</u></p> <p>Data box : Battery operated, Power supply 100-240V.</p> <p>Footswitch controls microscope functions</p> <p><u>Trolley (optional)</u></p> <p>Storage microscope, Data box, Footswitch and Video System</p>
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		<p>Monitor adapter :For mounting a flat screen with VESA 75 or VESA 100 standard</p> <p>Microscope holder: For storage</p> <p><u>Digital Video System</u></p> <p>Touch Screen User friendly operation</p> <p>High performance digital recording. Simultaneous acquisition of high-quality videos and still images, save directly to a USB stick. Networking and documentation DICOM compatibility for videos and still images, archiving in patient file.</p> <p>It should conform to :</p> <p>Medical Devices Directive 93/42/EEC</p> <p>IEC 60601-1: EN 60601-1; UL 60601-1; CAN/CSA-C22.2 NO. 601.1-M90, certified for safety</p> <p>Electromagnetic compatibility IEC 60601-1-2;EN 60601-1-2</p> <p>ISO 9001/ISO 13485 AND ISO 14001 certified for quality management.</p>
03.	APEX LOCATOR	<p>Automatic calibrated Apex Locator that measures root canal length in dry and wet conditions with accuracy of 95-96%. Audible signal and meter for indicating the position of the apical constriction. For high accuracy in detection of file location, the instrument should use a ratio technique. A LCD screen, information display, canal length indicator bars, sound volume (off, low, high), battery power indicator, meter bar (for the ratio technique), adjustable apical line.</p> <p>Rating: DC 4.5 V, Power Consumption: 0.135 VA, Size : W 105x D 105x H 115mm</p>

		Weight : 370 gms approx. Accessories 1 probe card, 3 file holders, 5 electrodes, 1 canal length tester, 3 DC 105 VAA battery
04.	ENDOMOTOR	Motor handpiece and contra angle (mini contra head with reduction :20:1) should have a diameter of 11 to 12.5 mm, weight 60-70 gms approx, length 160-165 mm. It should be light weight for easy endodontic access and design to minimize fatigue and fingertip stress. Five automatic safety features – foot start/ stop, torque reverse, torque slow down, apical reverse, apical slowdown. Foot switch for easy operation to use the micromotor/endomotor for root canal preparation. Endomotor Flexibility of eight speed settings from 100-600 rpm, tubing for micromotor.  Accessories 1 probe card, 3 file holders, 5 electrodes, 1 canal length tester, 3 DC 105 VAA battery, 1 handpiece rest, 1 AR Oil, 1 AC Adaptor (100-240 v, 50/60 Hz)+disposable covers (1 box of 100).
05.	INJECTABLE GUTTA/PERCHA UNIT + CLEANING KIT & 4 BOTTLES OF SOLUTION WITH BRUSHES	The thermoplasticised GP unit should comprise of ergonomically designed handpiece for comfort and control, a control unit that contains a temperature display, button for temperature presets. Stainless steel hand condensers- 05 nos (21mm) in different measurements (0.45-1.17 mm), Ni Ti Condensers- 03 nos in different measurements (40-60). 20,23,25 gauge needle diameter (pack of 6 each). Two viscosities of GP points: Regular flow GP box of 100 pieces and low temperature flow 150 GP box of 100 pieces. Four in one multi tool for plunger seal assembly, needle nut attachment, bending of needle and thermal protector removal, AC adapter.
06.	PINDEX SYSTEM	Manual drilling synthetic care with accessories hand drill – 1 piece, set flexible socket former, tool for drill changing, socket wrench, pin introduction set,+ trimmer.
07.	PIEZOELECTRIC ULTRASONIC SURGICAL UNIT	<ul style="list-style-type: none"> <li>• Piezotome mode with form programs selected according to bone surgery</li> <li>• Sterilizable disconnect able cords &amp; hand pieces</li> <li>• Dual foot switch</li> <li>• Bone surgery kit, crown extension kit sinus lift</li> <li>• Supply voltage – 115 VAC /230 VAC-50/60 Hz.</li> </ul>

		<ul style="list-style-type: none"> <li>• Equipment Classification – Class I-BF Type</li> <li>• Vibration frequency – 28 KHz to 36 Khz</li> <li>• Peristaltic pump flow rate – 5 to 80 ml/Min approx. Depending on the mode used.</li> <li>• Purge function pump flow rate- 80 ml/Min. Approx.</li> <li>• Dimension (without bracket) :             <ul style="list-style-type: none"> <li>Width – 350 mm</li> <li>Height – 110 mm</li> <li>Depth – 240 mm</li> </ul> </li> <li>• Weight (without accessories)- 2.6 Kg.</li> <li>• Multifunction dual foot switch             <ul style="list-style-type: none"> <li>Width – 150 mm</li> <li>Height – 40 mm</li> <li>Depth – 190 mm</li> <li>Weight-500 gm.</li> <li>Hand piece cord-2000mm</li> </ul> </li> </ul>
08.	INTRA ORAL X-RAY MACHINE	<p>Provision for exposure times to be customised. One button to allow switching to instantly from conventional intra-oral x-ray film to digital sessions. Leakage radiation should be filtered (equivalent to 2mm Al at 70kV) and controlled (less than 0.25mGy/h at 1m from focal spot) for maximum protection. The control software should automatically compensate for variations in mains voltage so that the radiation emitted is always of the best quality to provide pictures with reproducible parameters. Control panel should manage exposure times that are perfectly suited to digital imaging with DC. Provision for exposure times to be optimized for used with digital sensors. The generator should be compatible with practically all digital imaging systems. It should be fitted with a double anode tungsten tube (intensity 4-8mA). Constant voltage of 60kV or 70kV. It should operate at high frequency and constant potential which enables very high quality radiation to be emitted. The choice of voltage (60 or 70kV) and intensity (4 or 8mA) that enables optimal diagnosis of intraoral x-rays with 35% reduction in exposure time, compared with monophased units. The timer should control upto two DC generators. The extremely short exposure times (minimum 0.02 sec) that are suitable for digital radiology with CCD, CMOS or phosphor plate sensors (radiation is 50% less) than that used with 'E' type films. Classification Electromedical equipment, Class 1 type B, voltage 230v monophase 50/60 Hz.</p> <p>Power absorption at 230 V:1.4 kVA.</p>

		<p>Resistance for the line 0.5 ohms</p> <p>X-ray tube new DC tube (073 b)</p> <p>High voltage 60-70kV</p> <p>Anode current 4-8mA</p> <p>Focal spot 0.7 mm</p> <p>Total filtration : 2 mm Al to 70 kV</p> <p>Leakage radiation less than 0.25 mGy/hour maximum at a distance of 1m from focal spot</p> <p>Long cone focus to cylinder tip distance = 31 cm (12")</p> <p>Exposure time can be set from 0.02 ti 3.2 seconds</p> <p>E-ray emission control switch with spiral cable.</p> <p>Total weight 25 kg (weight of the head : 5.5 kg)</p> <p>Manufactured according to EC 93/42/EEC standards.</p>
09.	X-RAY FILM PROCESSOR	<p>Fully automatic development of x-ray film (8 at a time) in 6 minutes. The developer should have a daylight hood with bath heating with flap. A change of chemicals required after three weeks or 350 films. Easy water drainage and refilling system. Baths should be freely accessible. Three to four times a year cleaning of the transport system should be adequate, for proper functioning. A cleaning set with a universal tank cleaner, bath and brush should be supplied for the above mentioned purpose. The on /off switch should falsh after switching on until the chemicals have reached the working temperature and are ready for operation. The film transport in the drier should be integrated into the entire transport system. In five-six minutes, the developer should develop upto eight intra oral films. Even with shorter development times the picture qualifty should remains perfect L good contrast, high density, secure. Professors temperature controlled chemical heating. Developing without a darkroom and the accompanying procedures.</p>



10.	PLASTER DISPENSER WITH WATER TANK	A built-in dispensing mechanism integrated in the tank. Simplified powder filling and replacement of plaster cartridges of different types. Mechanism should consists of a spindle, an impleeter and actuator. Dispenser operation with key stroke for the dose shown on display to be dispensed. Repeated button pressings should show on display the multiplication by the number of key strokes. Proportional dispensing of water. Display should show powder dispensing in gms and water in milliliters. Machine should operate in three easy operating modes like water only, powder only and water powder in proportion. High accuracy. Ergonomic design.
11.	VIBRATOR	Heavy duty vibrator made of synthetic rubber and no steel plate. Illuminated start and stop switch. Epoxy paint finish. A potentiometer for progressive adjustment of vibration. Vibrator should have suction pads at the bottom for placement. Working Area 270x270mm.
12.	CIRCULAR SAW	<p>The unit should be with diamond blade disc saw for model stump technique, The DC motor should have constant torque with the DC motor of speed atleast 6000 RPM Should have two hand safety protections &amp; build in suction with filter, Bowl joint holder with magnetic locker.</p> <p>Should be equipped with high precision laser beam showing exact cutting line</p> <p><u>Additional</u></p> <p>Adjustable hand saw with changeable blades. Easy handling due to the height adjustment.</p>
13.	PNEUMATIC CHISEL	Robust, high performance chisel operated by compressed air for universal use in the laboratory. High frequency chisel to deflask dentures and disinvest casting. Avoid, micro cracks formed by unconventional methods of plaster removal. High quality compressed air control. Filter, lubricator regulator unit built in circuit. Chisel tips – 3 Nos.
14.	WELDING UNIT (Spot welding)	<p>Pulse current upto 2000 amps, six welding settings, two soldering settings, button for continuous soldering, ED display, automatic voltage detection, current limitation if electrode is incorrect, power saving device (stand-by mode if not used for 10 minutes). Fault signals for overheating, check electrodes. Mains connection 110-240 v/50/60 Hz. CE certification required.</p> <p>Universal flux for all solder alloys. 50 gms packing to be provided alongwith the spot welder. Notched, oval</p>

		<p>cadmium free, ready fluxed. Solder pellets with working temperature 700° C(25 pieces) and CE certification required. – Premix solder.</p>
<p>15.</p>	<p>UNIPOLAR AND BIPOLAR CAUTERY UNIT</p>	<p>Bipolar, and monopolar generators should provide cutting and coagulation output modes. Optimal speed and precision is essential for simultaneous access to bipolar touch buttons. Seven separate, research based cutting and coagulation modes. Incorporate monitors for place Continuity, Plate Attachment (divided plate), Patient Earth, Plate Voltage and Excess Power. Possible to switch controls between ‘0-10’ or ‘wattage’ scales. Monopolar output to have option of normal cut or specialist cut for wet field requirements as well as blend pinpoint &amp; spray coagulation. Bipolar output to have option of macro (50 w) and micro (15 w) coagulation.</p> <p>Cutting &amp; coagulation            Unipolar</p> <p>Coagulation                            Bipolar</p> <p><u>Technical specifications</u></p> <p>Input-Mains 220-240 V a.c. 50/60Hz</p> <p><u>Monopolar</u></p> <p>Nominal load                    150-200 Ohms</p> <p>Normal cut                        340-345 W(power), Voltage Peak (1100-1150)</p> <p>Blend                                300 W (power) Voltage Peak (2000-2200)</p> <p>Cut                                    345 W (power), Voltage Peak (1000-1500)</p> <p>Pinpoint coag.                170 W (power), Voltage Peak (2000-2150)</p> <p>Spray coag.                    79 W (power) Voltage Peak (3000-4000)</p> <p><u>Bipolar</u></p> <p>Nominal Load                90-100 Ohms</p>

		<p>Coag. High range      50 W</p> <p>Low range              15 W</p> <p><u>Frequency</u></p> <p>Monopolar              450-475 kHz</p> <p>Bipolar                  750-785 kHz</p> <p><u>Safety</u></p> <p>Comply with EN60601-1:1990 and IEC 60601-2-2:1998 standards</p> <p>Class 1 Defibriliator proof</p> <p>Drip- proof</p> <p>CE certified</p> <p>Weight                  10-15 kgs</p> <p>Dimensions            425x390x190 mm</p> <p><u>Accessories</u></p> <p>1 twin metal footswitch, 1 active electrode handle with cable and plug, 1 pack of 4 flexoplates, 1 flexoplate adaptor, 1 single footswitch, white, with cable and plug for bipolar coagulation, 1 bipolar cable, 1 pair bipolar forceps, straight 150mm.</p> <p><u>Additional</u></p> <p>1 pack of 50 adhesive plate electrodes, 1 connecting cable and plug for adhesive plate electrodes, 1 pack of 5 blade electrodes, 1 pack of 5 needle electrodes, 1 blade electrode angled, fine, 1 needle electrode angled, medium, 1 ball electrodes 5 mm, 1 loop electrodes 6.5 mm, 1 pack of 5 fingerswitches with cable and plug, 1 pair</p>
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		bipolar forceps, angled 110 mm, 1 pair bipolar forceps, bayonet 200mm.
16.	CORDLESS LIGHT CURING (LED)	<p>Battery operated, digital display, light intensity of 2000 Mw/cm<sup>2</sup> in turbo mode. Short curing cycle of 5 seconds for light and dark shades of composites. Integrated fan for continuous cooling. Polywave LED with halogen like broadband spectrum from 385-515nm. Battery operated.</p> <p>Light probe: transparent, white 10mm, autoclavable, cooling system-active, acoustic signal active after 10, 20, 40, 60 seconds. Weight of handpiece +holder – 200 gms +245 gms, Dimension of hand piece: 220x35x160mm. Dimension of handpiece holder: LxWxH=200x120x70 mm.</p> <p>Powers supply 100-240 VAC, 50/60 Hz. Warranty one year.</p> <p>Light probe with varying diameter (2-3) in number. LED Multiple Programs; possible to vary the light intensity according to choice of material. Eg:- Bond agent needs less curing time, so a soft start. Polywave technology. There should be four LED diode. (3 diode in regular U.V. intensity and 1 higher intensity)</p> <p>Battery :- Lithium 360 ° rotation of the light probe possible.</p>
17.	AMALGAMATOR	<p>The amalgamator should be digital device with an ergonomic design with provision for use of the pre dose capsules of alloy and mercury and measuring that should be provided with the device for a homogenous mix and prevention of wastage. It should be possible to vary the time and oscillations.</p> <p>Amplitude : 20-25 nm</p> <p>Frequency: 3500-4500oscillations per second.</p> <p>Time setting: 0-30 sec and provision for repeating the time selected.</p>

		<p>Safety: Automatically halts if lid id open and ISO 13485/03 certified.</p> <p>Should include a box of 50 capsules.</p>
18.	RUBBER DAM KITS	<p>Contents of the dental kit should be a rubber dam punch, rubber dam forceps of high quality of stainless steel that are autoclavable. Autoclavable plastic dam fram template 6"x 6" (152mm x 152 mm).</p> <p>There should be winged clamps as they provide extra retraction and better visibility of the operative field compared to wingless clamps- 9 or 10 in number. A dental dam stabilizing cord (wedjets and cord pack). Ready cut rubber dam sheets box containing 30-36 sheets of 6"x 6" (152 x 52mm) medium rubber dam natural latex rubber and gauge of 0.007-0.009 inches .Dental dam napkins for patients sensitive to latex and better saliva absorption and a manual for dental dam application. All components of the rubber dam kit should be CE certified.</p>
19.	PULP TESTER DIGITAL	<p>Automatic digital pulp testing unit should contain a digital pulp vitality tester, 2 autoclavable tooth probes, 9 V long life high output alkaline battery. It should be hand held digital device that diagnoses a vital tooth with weak current. A button for gradually increasing the stimulus that increases at the rate easy for the operator to control and easy for the patient to tolerate Convenient to operate. The button should have fast, medium and slow stimulus rate adjustment. A digital display jack for ground clip/ lip ground wire, a storage box and an instruction manual. It should be ISO 9001/ISO 13485 and IEC 60601-1-1 certified. CE 0120, IEC 60601-1-2 for safety.</p>
20.	GLASS BEAD STERLIZERS	<p>The sterilizer should have a thermostat which maintains the set temperature with an accuracy of <math>\pm 1\%</math> of the pre-set range. The cabinet body in stainless steel and it should be possible to place it at the worksite.</p> <p>Cabinet size L x W x H = 185x125x135mm</p> <p>CRUCIBLE (brass): 45-50mm dia x 48-50 mm depth</p> <p>Present temperature range : 230°-250°</p> <p>Initial stabilization time: 20-30 minutes</p>

		<p>Weight between: 2-2.6 kgs</p> <p>Power Consumption: 10-15 Units (for 25 working days)</p> <p>Wattage: 70-75 W Single Phase</p> <p>Input: 220V/50Hz or 110V/50Hz</p> <p>Glass beads packets to be included.</p>
21.	MAGNIFYING LOUPES	<p>Advanced vision enhancement System.</p> <p>Light weight binocular loupes with multifunctional capabilities. Multicoated precision lenses for clarity and reduced reflection. Fully adjustable viewing angle, pupil distance and light weight (titanium) frame size medium/large. Package should include a carry case in aluminum, light weight frame, side shields, head band, microfibre cloth, screw driver, calibration target and user manual, Loupes with retainer straps, with magnification 2.5 or 3.5 times. There should be an interpullary knob, height adjustment lock screw, height adjustment rail, lumin assembly, view angle hinge, flip up handle.</p> <p>Additional requirements- trendy frame, clear lens covers, head band, lamp (LED head light, rechargeable power pack.)</p> <p>Magnification Power : 3.5 x</p> <p>Working distance : 19-21 inches</p> <p>Field of view : 2.6-2.8 inches</p> <p>Depth of Field : 2.4-2.6 inches</p> <p>Weight : 90 gms approximately</p> <p>Adjustable viewing angle : 0-45 °</p> <p>Adjustable pupil distance : 1.6-2.6 inches</p>

22.	Semi adjustable articulator with facebow and mounting system	Semi adjustable articulator for complete denture, crown & bridge work that should have all necessary accessories for working with ear face bow and also be used with the biometric value template system. The system should be intrinsic with all plane indicator accessories. Ear face bow should be easy to use with single lock for bite fork compatible for the articulator. Change in Bennet angle should be 0° to 30° with centric locking catch. Incisal guide should be changeable to customize or pre set angles. Retrusive movements should be up to 35° and up to 2mm distance which can be set. Protrusive shift of 0-5 mm should be possible. The articulator should have a support for a better view for working on the model, The shift setting should be 0-1 mm. Ready made mounting should be available for the mounting of bite forke in Frankfort horizontal. Articulator should have a centric locking system. Intra-oral tracers should be there for modifying the vertical height.
23.	ARTICULATOR FULLY ADJUSTABLE	<p>The articulator should have independently adjustable fossae walls that duplicate a patient's condylar path of movement as recorded by the pantograph. Fully adjustable that simulates true anatomical structure.</p> <p><u>Adjustments</u> : protrusive angle 0-60 degrees, immediate side shift 0-4 mm, progressive side shift 5-30 degrees, rear wall 0-30 degrees backward, top wall 30 degrees up, 30 degrees down, intercondylar distance 90-150 mm. Medial and superior wall inserts: removable for custom grinding and choice of curvatures. Adjustable incisal table, custom step incisal table and long centric incisal pin. Lingual visibility for better viewing and access to models from the rear of the instrument.</p>
24.	HEAVY DUTY MICROMOTOR	Heavy duty brushless micromotor with variable speed control. Compact and ergonomic design. Foot pedal for variable speed control. Automatic halt/stop on overheating. Max rpm-40,000 220 V,1 control box, 1 micromotor engine, micromotor stand, foot switch.
25.	LATHE	<p>½ HP2800 R.P.M heavy duty rating</p> <p>3 attachment (Buffer, stone and Bur) &amp; D.B.B. Cable arm</p> <p><u>Technical data</u></p>

		Power supply : 230 V 50/60 Hz
26.	DEWAXING UNIT	The machine should have a programmable microprocessor based from 0 to 98 hrs to set programme for start up. The machine should have integrated 6 showers for dewaxing. The body should be made for complete stainless steel for long lasting performance. The dewaxing unit should also be useful as an acrylizer.
27.	MECHANISED PRESS	Easy to use with sturdy, reliable, durable construction. Should be able to accommodate up to 2-3 flasks. Designed to withstand high pressure Pressure of 400 bar.  Technical Data Width : 140mm Height : P-2 for two flasks between plate and base: 180mm Height : P-3 for three flasks between plate and base: 235mm Weight 12.5 kgs Consumables: ring, ring former, flasks, clamps.
28.	BONE PLATING KIT	Plier Plate Bending Forceps Modelling lever Self Hlding Screw Drivers Ordinary Screw Drivers with fibre handle Bone holding forceps in pair Plate holding forceps Screw holding forceps

	<p>Depth gauge</p> <p>Trocar sleeve/ Drill Guide</p> <p>Bone Elevators in Pair</p> <p>Titanium plates continuous holes for 1.5, 2.0, 2.5 mm Dia Screws</p> <p>Titanium Plates with bar for for 1.5, 2.0, 2.5 mm Dia Screws</p> <p>Titanium L shape plate 90° (Rt, Lt) 120° (Rt, Lt)</p> <p>Titanium T shape plates</p> <p>Titanium I shape plates</p> <p>Titanium Y shaped plates</p> <p>Titanium X shaped plates</p> <p>Titanium Angular plates</p> <p>Rowes Maxilla Disimpaction clamps Rt/Lt</p> <p>Rowes Mandible holding forceps</p> <p>Hayton William forceps</p> <p>Asch nasal septum forceps</p> <p>Walsham nasal septum forceps</p> <p>Maxillary fracture reduction forceps</p> <p>Bone holding forceps</p> <p>Chin segment forceps</p> <p>TMJ spreading forceps</p> <p>Mandibular bone graft holder</p> <p>Maxillary bone graft</p> <p>Titanium Curved plates</p> <p>Titanium Square plates for 2 mm dia screws</p>
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		<p>Titanium Orbita plates with bar</p> <p>Titanium 3D bone plates for 2 mm screws</p> <p>Titanium Nose plates</p> <p>Titanium Chin plates</p> <p>Titanium Reconstruction plating system (Complete Kit)</p> <p>Titanium Reconstruction plates straight for 2.5mm screws</p> <p>Titanium Reconstruction plates angled for 2.5 mm</p> <p>Titanium Mini screws slotted head</p> <p>Titanium Intermaxillary fixation screws with hole</p> <p>Titanium Lag screws</p> <p>Titanium TMJ condyle Rt or Lt</p> <p>Titanium TMJ condyle with reconstruction plate</p> <p>Titanium Wire mesh</p> <p>Straight surgical handpiece (without lever chuck &amp; external spray, motor connection)</p> <p>Angled surgical handpiece (without lever chuck &amp; external spray, motor connection)</p> <p>S-11, Straight, lever chuck, external spray (apical resection, osterotommes sequestrectomy, bone mothening)</p> <p>S-9, Wisdom tooth removal, apical resection</p> <p>S-12, ENT, Neuro, Plastic Surg.</p> <p>Titanium Matrix Plates with surgical kit.</p>
29.	IMPLANT KIT	<p>The implant kit should have all the following components in the surgical armamentarium along with accessories .The size including diameter and length might vary (within range with multiple options) according to the system and each surgical component should correspond to the implants and prosthetic kit for complete synchronisation of the system.</p>

		<p>Surigcal Armamedtarium kit must consist of following:-</p> <ol style="list-style-type: none"> <li>1.Radioopaque balls for pre Surgical planning ----10 No</li> <li>2. Radiographic template -5 No</li> <li>3. Radiographic template for trans gingival Implants (Opitional)-5 No</li> <li>4. Colour coded select try in abutment size range from 3MM- 6 MM (Opitional) - 8 No</li> <li>5. Depth Gauge/Depth indicator 2 MM dia -2 No</li> <li>6. Colour coded select try in Implants (Optional) - 10 No</li> <li>7. Round Drill-1 No</li> <li>8. Colour coded Twist Drill of Diameters range from 2MM-6MM varying length compatible with the Implants Drills must have internal or external irrigation System - Set of 16-20 (2 sets)</li> <li>9. Colour coded Twist Drill Crestal of Diameters range from 2MM-6MM v compatible with the Implants Drills must have internal irrigation -5 No</li> <li>10. Colour coded Bone tap set (for cortical bone) -5 No</li> <li>11. Ratchet compatible with the Implants -2 No</li> <li>12. Drill Extension-1 No</li> <li>13. Long Internal irrigation tube-1 no</li> </ol>
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		<p>14. Drill cleaning instrument-1 No</p> <p>15. Ratchet implant driver for screw implant Diameters range from 2MM-6MM -2 No</p> <p>16. Ratchet implant driver for screw implant &amp; temp base abutment Diameters range from 2MM-6MM -2 No</p> <p>17. Implant Finger driver-2 No</p> <p>18. Ratchet slot driver for 0.9-1.22MM- 2No</p> <p>19. Ratchet insert for Implant Driver -1 No</p> <p>20. Hand piece Implant driver for screw implants Diameters range 2.5-4.0 MM- 2No</p> <p>21. Hand piece Implant driver for screw Implants &amp; temp base diameter range 2.5-4.0 MM (optional)</p> <p>22. Hexagonal inserts-2 No</p> <p>23. Extension for ratchets -3 No</p> <p>24. Ratchet implant driver TG- 1 No</p> <p>25. Hand Piece Implant Driver TG-1No</p> <p>26. Seating instrument for implants -1No</p> <p>27. Handpiece Hex Driver for 0.9MM -1.25 slots-2No</p> <p>28. Ratchet Hex Driver for 0.9Mm-1.25 slots -2No</p>
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		<p>29. Implant forceps -1 No</p> <p>30. Surgical tray autoclavable -1No</p> <p>31. Titanium tweezer-1No</p> <p>32. Bone condensers, color coded for diameter 2-6.5 MM straight bone condensers (as well as angled condensers)- 1Set (set of 3-5)</p> <p>33. Bone expander color coded from diameter 3.8-6.5 MM (optional)- 1Set (set of 3-5)</p> <p>34. Periotome - 1Handle with 3 blades</p> <p>35. Paralleling Pins -6 No</p> <p>36. Implant mallet -1 No</p> <p>37. Implant forceps and trephine Drills-2 No</p> <p>38. Color coded bone profilers (optional) - 1 set (Set of 5)</p> <p>39. Color coded soft tissue punches- 1 set (Set of 5)</p> <p>40. Depth stop sleeves Diameters range from 2MM-6MM compatible with the implants -1 Set (Set of 25-30)</p> <p>41. Security kit Tray-1 No</p> <p style="text-align: center;"><b>Implant System</b></p>
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	<p>Number of Implant : 100</p> <p>Implant Design: Root Analogue Cylinder/stepped Cylinder/Root Analogue screws/stepped screws</p> <p>Diameter : Range from 03-08mm</p> <p>Length : Range from 08-18mm</p> <p>Gingival height: 1-2-3-5mm Abutment</p> <p>Clinical use : Immediate implant placement/Delayed implant placement /Late Implant placement Single stage/Two stage</p> <p>Quality of Materials: ISO certified : Medical grade titanium : Biocompatible</p> <p>Colour coding: Wide range and user friendly colour coding</p> <p>Surface treatment: Titanium plasma sprayed (TPS)/FBR surface/DPS Surface</p> <p>Anti Rotation Provision: Internal hex</p> <p>Highly polished surface at epithelial region (collar)anti rotation connection between the implant and the abutments interphase</p> <p>Gap free implant -abutment interphase</p> <p>Cover screws should be compatible with implant</p> <p>Soft tissue forming /shaping : Gingival former / Sealing Screw</p> <p><b>PROSTHODONTIC REQUIRMENTS</b></p> <p>Suitable for missing single tooth/ free end cases/tooth bound gaps edentulous jaws</p> <p><b>IMPRESSION MAKING:</b> Impression posts</p> <p>Lab Analogues</p>
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	<p>Prosthetic Component overdentures</p> <p>Transfer caps (Suitable for transfer &amp; pickup techniques)</p> <p><b>SUPERASTRUCTURE</b></p> <p>provisional restorations</p> <p>Prefabricated customizable abutment for crown and telescopic abutments</p> <p>Horizontally screw retained /Cement or removable</p> <p>Abutment for retained bridge /overdenture</p> <p><b>PROSTHETIC COMPONENTS</b></p> <p>Prosthetic attachment should consist of Gingival former, impression coping , Implant Analogue , Abutment straight and Angled , other prosthetic attachments compatible with implant systems.</p> <ol style="list-style-type: none"> <li>1. Gingival former varying diameter and gingival heights -40 No</li> <li>2. Gingival former with provisional restoration abutments -30No</li> <li>3. Transfer coping of varying diameters with short and long screws -40Nos</li> <li>4. Implant Analogue varying diameter - 50 No</li> <li>5. Transfer coping of varying diameter -30 No</li> <li>6. Abutment straight -40 No</li> <li>7. 15 degree angulation -20 No</li> <li>8. Ceramic abutments -10 No</li> <li>9. Telescopic abutments of the various sizes-10No</li> </ol>
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	<p>10. Abutment castable waxing sleeve and screw-10 No</p> <p>11 Over denture components such as bar coping , Bar &amp; clips</p> <p>Ball &amp; socket attachment with silicon and plastic rings -10 No</p> <p>12Basic prosthetic instrument tray for impression making -5 No</p> <p>13. Heat resistant synthetic sterilization pouches for surgical hps.</p> <p>14 Titanium tapered Screw type two stage implants especially Designed. For implantation in wide range bones Dual thread Design allowing faster insertion 2.45 internal hex Sand Blasted and acid etched surface Sizes from 3mm to 6mm and lengths from 8mm to 16mm With compatible std abutment, Angulated and Surgical kit</p> <p><b>accessories for implant</b></p> <ol style="list-style-type: none"> <li>1. Benex extraction system exclusively for immediate implant placement. should conserve soft and hard tissue longitudinal extraction with optimal socket preservation for extraction of roots or teeth should be safe easy gentle.</li> <li>2. bone scraper, a instrument for easy and quick catalogues bone structures.</li> </ol>
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		<p>Bone collected in a chamber</p> <p>bone mixed with blood In the same time</p> <p>3. Trephines</p> <p>Trephines inside dia – 1.7 to 10 mm</p> <p>outside dia - 10 to 11</p> <p>4 Bone mill forceps</p> <p>5 Tissue punch 3mm to 6.5 mm</p> <p>7 sinus lift instrument set</p> <p>Set of 11 instruments with sterilizable bowls with sterilizable cassette to store burr and bowls</p> <p>8 bone splitting kit with sterilizable wedges of various diameter</p>
30.	HIGH SPEED ELECTRIC DRILL SYSTEM WITH ATTACHMENTS	<p>It should be compact in size and light weight. Should have max speed of 80000 rpm and have irrigation connections and facilities with integrated cooling mechanism for heat control of handpiece. Option for hand control should be available. Bi-directional rotation system with control from either system console or foot pedal. Quick connect and disconnect assembly required. Motor should be able to deliver high power and high torque. Should be autoclavable. Foot control should provide accelerator like speed control with buttons for on and off, and for change of rotation direction. Console should have easy handling with digital display, sterilization case and tray with cart.</p> <p><u>Attachments –</u></p> <p>Heavy duty straight handpiece, heavy duty contrangle handpiece, chuck driver system upto 4mm diameter, oscillating saw handpiece, sagittal saw handpiece, reciprocating saw handpiece, oscillating saw blades of all sizes, sagittal saw blades of all sizes, reciprocating saw blades of all sizes, bone cutters- ball type round sizes- 1 mm to 5 mm, carbide type, diamond style cutters from 1 mm to 5 mm. Handpiece cleaning oil and brushes.</p>
31.	DENTAL SAND BLASTER	<p>Divesting nozzle for recyclable abrasive 3.00 mm nozzle. Easy micro blasting tanks for disposable media fitted with 0.8 mm nozzle (0.5-0.8-1.2-2.0 mm nozzle available)</p>

		<p>Air Filter</p> <p>Pressure gauge and foot control</p> <p>Pre-fitted for connection to WAFIS and Pro-3. Suction system</p> <p>Technical data</p> <p>Power Supply : 230V-50/60Hz. 2500 W</p> <p>Weight : 11.8 Kg.</p> <p>Dimension : 415 X 400X445 mm.</p>
32.	DENTAL CASTING MACHINE	<p>High starting torque, closed circuit cooling system. The coolant level can be checked annually using the front mounted operating panel. Coolant level warning light, cover lock indicator, clear view of the alloy fusion process. Touch button control panel, timed end-of-cycle shutdown of cooling pump.</p> <p>Auto standby function when idle for 5 minutes.</p> <p>Standard accessories included.</p> <p><u>Tehchnical data</u></p> <p>Power supply 230V-50/60 Hz, 2500W</p> <p>Generator power consumption 2000 W</p> <p>Dimension 600x980x620 mm.</p> <p>Weight 95 kg</p>
33.	FIBRE OPTIC BRONCHOSCOPE	<p>Light weight, height resolution bronchoscope with light cable. Field of view 120 degrees or more, depth of field 3mm to 50 mm or better. Distal end dia 3.8mm approx. (should allow 5 mm endotracheal tube to be mounted easily). Bending range UP 180 degree or DOWN 130 degree, working length 600 mm or more. Total length 900 mm or more. Channel dia 2.2 mm or more. Autoclavable suction valve to avoid risk of cross contamination.</p>

	<p>Telescopic eyepiece for direct compatibility to CCTV system. Bending mechanism knob without lock. Fully immersible in disinfectant solution. Leak testing facility with automatic &amp; pressure regulated air feeding (non-pressure gauge system preferable). Halogen Light Source: It should be compact and light weight around 5-6 kg or less for easier transportability. It should have 150 watts halogen lamp with standby lamp option. Additional 4 nos. Bulbs to be included. Should be compatible with flexible endoscope.</p> <p><u>Video Processing System</u></p> <p>Fully immersible camera head and cable assembly, Video processing camera, ¼ inches CCD (Closed circuit display) with 10 bit digital signal processing, In built filter for compatibility with fiberoptic endoscopies, Resolution: 470 horizontal lines approx., Signal to Noise Ration &gt; 50, Rotatable and detachable coupler (adaptor) with focusing facility, Video output Y/C and composite.</p> <p>System Configuration Accessories, spares and consumables          Flexible Fibreoptic Bronchoscope- 01          Suction port should be available.          Light source, Halogen- 01          Mobile Plastic Operating cart- 01          Spare Halogen Bulbs- 04          Reusable and autoclavable biopsy forceps- 02 nos          Cleaning /maintenance kit including container for disinfectant solution- 01 set          Enviornmental factors          The unit shall be capable of operating continuously in ambient temperature of 10-40 deg C and relative humidity of 15-90%          The unit shall be caopable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%          It shall meet IEC-60601-1-2:2001(or Equivalent BIS) General Requirements of Safety for Electomagnetic compatibility.          Power Supply          Power input to be 220-240 VAC, 50 Hz          Type of protection against electric shock Class I (3 core cord) to be supplied for the Light source          Standards, Safety and Training          Product should be FDA/CE or ISI approved          Manufacturer should be ISO certified for quality standards</p>
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		<p>Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements</p> <p>Should have local service facility. The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/ maintenance manual. Degree of Protection Against Electric Shock Type BF – Should incorporate insulated patient attachment for light source.</p> <p>Certification of meeting Biocompatibility as per ISO 10993-1, “Biological evaluation of medical devices- part 1: Guidance on selection of tests”.</p> <p>Certified to meet the current leakage requirement of IEC 60601-2-18 or equivalent standard for Medical Equipment particular requirement for safety of endoscopy equipments.</p> <p>Comprehensive warranty for 5 years and provision of AMC for next 5 years</p> <p>Documentation</p> <p>User manual in English</p> <p>Maintenance Manual in English</p> <p>Certificate of Calibration and inspection from the factory</p> <p>List of important spares and accessories with their part number and costing.</p> <p>Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/ technical manual.</p> <p>User list to be provided with performance certificate. Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered</p>
34.	VIDEO LARYNGOSCOPE	<p>The incubating fiberoptic scope set should be water proof, fully immersible for cleaning and disinfection. It should allow minimum deflection up/down :130-140 degree, deflection of view :88-90 degree, angle of view :88-90 degree, depth of field : 3-50 mm. Dimensions of distal tip diameter :3.4 mm to 3.7 mm, insertion tube diameter :3.5 mm, working channel diameter :1.4mm to 1.5mm, minimum working length :60 cm, minimum total length :85 cm. With a flexible light source cable with diameter between 3.5cm-4.8mm and minimum length of 175-180 cm. Allow simultaneous use of suction and oxygen. Xenon light source should be there with colour</p>

		<p>temperature 5500-6000 K, xenon lamp 75 watt, Power supply 220-240 V/50-60 Hz. It should have brightness control. The monitor should have 19” colour TFT flat screen, separate audio and video channels compatible with S-video, RGB and Endovision camera.</p> <p>3CCD-Chip image sensor, sensitivity of &lt;5 lux in standard mode and &lt;3 lux integrated mode, with a resolution of 700-800 lines horizontal, have integrated parfocal zoom lenses of 30-50mm. Manual or automatic digital exposure control and integrated image processing module. Have RGB, DV and S-vidoe signal compatibility. Minimum 3mt cable and operate on 220V/ 50Hz.</p> <p><u>Mobile cart/trolley</u></p> <p>Made of heavy CRC sheets, have minimum 3 shelves and 1 drawer.Antistatic freely movable castor wheels of minimum 125mm diameter with brakes. Provided with electrical sockets.</p> <p><u>Accessories</u></p> <p>Cleaning brush long- 02, cleaning brush short- 02, suction buttons- 02, suction channel cleaning adaptor- 02, rubber inlet seal- 10, ETO venting cap- 02, lens cleaner- 02, bite block- 02, carrying case- 01, spare xenon lamp- 01.</p> <p>A CPU with Pentium- IV or its equivalent processor, a 17” TFT monitor, a UPS and laser printer. Image capturing and processing software compatible to the software provided with CPU.</p>
35.	Pneumatic Crown & Bridge Remover	Air activation with respected and low impact force

36.	Electrical Nerve Locator / Stimulator	
37.	LUXATORS	(Straight blade, curve blade, contra angle blade, inverted curve blade, straight blade inter proximal, curve blade for large molar, straight blade with tan handle.
38.	ULTRASONIC CLEANER	<p>Tank capacity 10-13 ltrs.</p> <p>Overall dimensions 11.3x7.88x7.63 inches.</p> <p>Power 400 watts</p> <p>Operating frequency 56 KHz</p> <p>Portable inbuilt heater and circuit protector</p> <p>External drainage system.</p> <p>Wide Digital display</p> <p>Rinse time 2-30 minutes</p> <p>Weight 15 kg.</p>
39.	DENTAL SOFT TISSUE LASER	<p>Type Diode ALGAAS/IN GASP.</p> <p>Wave length 810mm.980 mm</p> <p>Power output 5-7 W</p> <p>Aiming beam 650mm/lmw controllable</p> <p>Operating mode CW or Pulsed</p>

		<p>Pulse width 5ms-30s</p> <p>Pulse width 5ms-10s</p> <p>Pulse repetition Rate upto 100Hz</p> <p>Laser delivery fibre – Fibre</p> <p>Fibre core 400 Micron standard</p> <p>200 &amp; 600 microns</p> <p>Laser emission Alert – Audible and Visible Sign</p> <p>Fibre connection Alert – Audible</p> <p>Dimensions 13cmsx19cmsx18cms</p> <p>Weight 1.5 kg</p> <p>Input voltage 110-220V AC 50-60Hz.</p>																		
40.	PHSIODISPENSOR (SURGICAL MICROMOTOR)	<p>Control unit with AHC.</p> <table border="1" data-bbox="846 1073 1741 1489"> <tr> <td><b>Max. output/max. torque</b></td> <td><b>:</b></td> <td><b>210 w / 50 ncm</b></td> </tr> <tr> <td><b>Power Supply</b></td> <td><b>:</b></td> <td><b>AC 230 V 50-60HZ</b></td> </tr> <tr> <td><b>Max. pump output</b></td> <td><b>:</b></td> <td><b>0-75 ml/min</b></td> </tr> <tr> <td><b>Programs</b></td> <td><b>:</b></td> <td><b>8 Programs</b></td> </tr> <tr> <td><b>Dimensions</b></td> <td><b>:</b></td> <td><b>w 268 x d 230 x h 103 (mm)</b></td> </tr> <tr> <td><b>Micromotor</b></td> <td></td> <td></td> </tr> </table>	<b>Max. output/max. torque</b>	<b>:</b>	<b>210 w / 50 ncm</b>	<b>Power Supply</b>	<b>:</b>	<b>AC 230 V 50-60HZ</b>	<b>Max. pump output</b>	<b>:</b>	<b>0-75 ml/min</b>	<b>Programs</b>	<b>:</b>	<b>8 Programs</b>	<b>Dimensions</b>	<b>:</b>	<b>w 268 x d 230 x h 103 (mm)</b>	<b>Micromotor</b>		
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41.	SHIFTING TROLLEY WITH WHEELS	Stretcher type with mattress.															
42.	ULTRA VIOLET CHAMBER FOR STORING AUTOCLAVED INSTRUMENTS	With 12 shelves x 2 u.v. Tubes															
43.	X-RAY VIEWER (LED)	LED light source with life of 50000 hrs with brightness of more than 4000 lux, light sourer															
44.	Mobile Dental Van with 2 Dental Chair and all attachments and adequate sitting space for 8-10 persons.	Mobile Dental Van with 2 Dental Chair and all attachments and adequate sitting space for 8-10 persons.															