

**Single Puncture Laproscope for Laproscopic Sterilization with CO2 Insufflators and Cold Light Source**

S. N.	Specification	Qty.
1	<b>Telescope:</b> Telescope 0 degree with parallel/straight eye piece, 10 to 12 mm diameter. Fibre optic light transmission incorporated, should be compatible with the commonly available light cables (necessary adaptors should be provided) Can be sterilized by autoclaving, gluteraldehyde solutions and formalin chamber. Should have 6 mm instrument channel built-in ring applicator Working length of 270-275 mm.	1
2	<b>Trocar &amp; Cannula:</b> Cannula size +1 mm more than the telescope diameter; should have an automatic valve and stopcock for insufflations. (Compatible with supplied telescope). Trocar should have pyramidal tip. Tip should be sharp enough but should not injure the viscera. The length of the Trocar should be 175 mm±10 mm and the length of the cannula should be 100-110 mm. (Intra abdominal part)	2
3	<b>Ring Applicator:</b> Ring applicator for use with parallel/straight eyepiece telescope compatible with the above telescope. Capable of loading two silastic rings. The ring applicator has to be fully dismantable into different parts like prone, inner tube, outer tube, knurled ring etc.	3
4	<b>Cone:</b> Suitable cones for loading rings to the above applicator made of Teflon / silicon / SS 317 grade	5
5	<b>Slide/guide:</b> Suitable slide/guide for loading rings to the above applicator.	10
6	<b>Veress Needle:</b> Veress Needle with spring loaded blunt stylet with luer lock and length of 10 cm	3
7	<b>Veress Needle :</b> Veress Needle with spring loaded blunt stylet with luer lock and length of 15 cm	3
8	<b>Essential Spares :</b> <b>(i) Spare washers:</b> Spare washers for trocar , Cannula and automatic valve <b>(ii) Kits for cleaning:</b> Trocar Brush, Cannula Brush, Silicon Oil 50ml, Special lubricant for stopcock & telescope lens cleaner. <b>(iii) Spare parts:</b> Spring of ring applicator, finger ring (thumb) for ring applicator, knurled screw for ring applicator, inner sheath of ring applicator, tension rod with grasper (prone insert) for ring applicator, adaptor for fiber optic light cable for telescope, stopcock for cannula gas inlet, spring cap for stopcock <b>(iii) Manuals:</b> Operational & service manuals	10 each 2 each 2 each 1 each
9	Supplier should provide a plastic storage brief case with foaming inside for laparoscope Telescope and all hand instruments and accessories for storage & transportation.	1
10	<b>Environment :</b> Telescope should be specified for operation up to 45° C and 100% relative humidity	<b>Conformity</b>
11	<b>Electronic CO<sub>2</sub></b> insufflators with pin index connection. Should have an adjustable flow rate of 0 to 20 ltr. Per minute and a pressure range adjustable between 0-30 mm Hg. Pressure and flow rate should be display on the front panel Provided with silicon autoclavable tubing with luer attachment. Instrument should work on a supply of 180-240 V. with a frequency of 50 Hz single phase. Fit for purpose. The unit should be comply with relevant IEC safety standards. The unit should be ISI/CE marked. SECUVENT safety system for constant monitoring of intra abdominal pressure and checking over pressure with automatic back release of CO <sub>2</sub> gas within 5 seconds should include 1 pack/10 filter for CO <sub>2</sub> gas. 1. The machine should give an audible alarm signal in case of wrongly placed veress pneumoperitonium needle and sudden block in the CO <sub>2</sub> flow from machine 2. The insufflator should also give audible alarm in case of overpressure and release of it automatically 3. Both the preset value and actual value for pressure and flow should be displayed at the same time on the front panel of the machine	1
12	<b>High Pressure hose:</b> High Pressure hose suitable to connect the insufflators with pin	1

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	indexed CO2 cylinder.	
13	<b>Wrench kit:</b> Suitable for connecting the insufflators to CO <sub>2</sub> cylinder	1
14	<b>Carbon Dioxide Bottle (cylinder):</b> 5 Kg. or equivalent Capacity Carbon Dioxide bottle with pin index connection. The unit should automatically display status of the CO <sub>2</sub> conditioning by it electronic Bar Graph / Digital display on the front panel of the insufflator. The unit should have inbuilt pressure regulator to detect high & low pressure of CO <sub>2</sub> gas automatically at the input.	4
15	<b>Cold Light Sources:</b> LED Light source with dual / two light outlets, having power of 100 Watts or more, and average LED lamp life of minimum 20000 hrs. Electrical Safety Certification IEC- 601-1.CE according to MDD and TUV certified. Rechargeable Handy LED Back Up light source compatible with SP laparoscope is also provided. Handy LED battery light source (Rechargeable with Charger) which can be directly mounted on to the laparoscope Telescope without any delay in case of break down with Main light source type. The unit should comply with relevant IEC safety standards.	1  1
16	<b>Fibre Optic Light cable:</b> 4.5-10.0 mm in diameter. 250-300cm in length compatible with the cold light source and can be fitted the commonly available telescope (necessary adaptors may be provided)	1
17	<b>UPS :</b> UPS-1.0 KVA with one hour backup time, good quality, ISI/CE approved	1
18	<b>Essential Parts:</b> (i) <b>Mains cord:</b> Compatible with insufflators and cold light source  (ii) <b>Manuals:</b> Operation & service manual (for insufflators & Light source)	2  1 each
19	<b>Formalin Chamber (for Sterilization of Laparoscope) :</b> Dimensions of Formalin chambers 65 cm (±10cm) X 20 cm (±2cm) X 20 cm (±2cm) with three tray made of white Opaque Acrylic	1
20	<b>Tray for sterilization of Laparoscopes:</b> Dimensions of outer sterilization box 70cm ±10cm x 20 cm ± 5cm x 15 cm ± 2 cm (Volumetric capacity 10 litre ± 2 litre ) and the inner tray with holes to keep the instrument in the solution. (Which is to be kept in outer box). The material should be of S.S. material.	2
21	<b>Compatibility &amp; Core items:</b> The core laparoscopy items such as Telescope, Trocar & Cannula, Ring Applicator, Veress Needle, CO <sub>2</sub> insufflator, Light Source and Fiber Optic light cable etc. should be from single manufacturer for system compatibility.	
22	Core items/products should be US FDA/CE and comply to mentioned safety standard in specifications.	
23	<b>Guarantee:</b> Three years on equipment from the date of installation.	
24	<b>CMC:</b> CMC will be given @ 3 % (of net rate - inclusive of Excise Duty & exclusive of VAT / CST etc.) plus service tax (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after completion of Guarantee period of three years.	
25	<b>Rates of Consumable/spare parts:</b> Rates of consumable and spare parts as per requirement of the equipment should be provided by bidder in BOQ.	
26	Installation will be done by supplier free of cost.	
27	The service engineer should be based in Rajasthan.	
28	Demonstration of Equipment is must for final approval.	
29	The company should mention the make & model name/number of the quoted equipment and submit the technical brochure of the quoted model in the Technical bid along with compliance sheet as per technical specifications.	
30	Firm should mention all the pre-installation requirements in technical bid.	

**Delivery Period -90 Days**

  
**Executive Director (EPM)**  
**Rajasthan Medical Services Corporation Ltd.,**  
**Jaipur**