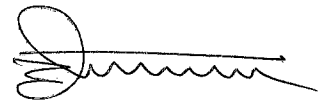


SPECIFICATIONS OF SINGLE PUNCTURE LAPAROSCOPE WITH CO2 INSUFFLATORS AND COLD LIGHT SOURCE

Sr. No.	Specification	Qty with Model
1	Telescope: 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 PM-SPL-6P
2	Trocar & Cannula: 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 not be so sharp that may 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 PM-AUB-11092A/ PM-TRO-11097
3	Ring Applicator: 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.	2 PM-RAP-06099
4	Cone: Suitable cones for loading rings to the above applicator (5) Slide/guide: Suitable slide/guide for loading rings to the above applicator	5 PM-RAP-06524
5	Slide/guide: Suitable slide/guide for loading rings to the above applicator.	10 PM-RAP-06530
6	Veress Needle: Veress Needle with spring loaded blunt stylet with luer lock and length of 10 cm	3 PM-VER-02099-100
7	Veress Needle : Veress Needle with spring loaded blunt stylet with luer lock and length of 15 cm	3 PM-VER-02099-150
8	Essential Spares: (i) Spare washers: Spare washers for trocar and cannula and automatic valve (ii) Kits for cleaning: Cleansing brush set for scopes (5 mm dia & 10 mm dia) of channel., Cannula brush, Cleaning oil (Silicon oil), Trocar Brush, Special lubricant for stopcock (iii) Manuals: (i) Operational & service manuals with catalogue (ii) List of spare parts with part nos	12 Washer PROMIS & Indian Make
9	Environment : Telescope should be specified for operation up to 45° C and 100% relative humidity	NA
10	Electronic CO2 insufflators with pin index connection. Should have an adjustable flow rate of 0 to 10 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 CO2 gas within 5 seconds should include 1 pack/10 filter for CO2 gas. 1.The machine should give an audible alarm signal in case of wrongly placed veress pneumoperitonium needle and sudden block in the CO2 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 PM-FL-20-X
11	High Pressure hose: High Pressure hose suitable to connect the insufflators with pin indexed CO2 cylinder.	1 Indian Make Baja/GNR

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12	Wrench kit: Suitable for connecting the insufflators to CO2 cylinder	1 Indian Make Baja/GNR
13	Carbon Dioxide Bottle (cylinder): 5 Kg. Capacity Carbon Dioxide bottle with pin index connection. The unit should automatically display status of the CO2 conditioning by it electronic Bar Graph on the front panel of the insufflator. The unit should have inbuilt pressure regulator to detect high & low pressure of CO2 gas automatically at the input	4 Indian Make Baja/ GNR
14	Cold Light Sources : Cold Light Sources with dual control having 2 halogen lamps of 250 watts Facility to automatically switching of spare lamp in case of failure of one lamp without any delay 24V rating each operatable on a 220-240 V and 50Hz supply with suitable transformer. Rechargeable battery Backup light source compatible with SP laparoscope is also to be provided. Handy LED battery light source which can be mounted directly on to the laparoscope or rechargeable battery backup light source with more than 5 working hours Fit for purpose. The unit should be comply with relevant IEC safety standards.	1 PM-HL-250-AX (Model as per specification and PM-LED-15-740
15	Fibre Optic Light cable: 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 PM-LCB-48-30
16	UPS : UPS-1.0 KVA with one hour backup time	1 Feedline Indian
17	Essential Parts: (i) Mains cord: Compatible with insufflators and cold light source (ii) Halogen Spare Lamp: Halogen Spare Lamp of 250 watts/24 V. (iii) Manuals: Operation manual (for insufflators & source) , Service manual (for insufflators & source), Spare parts list (with part no.s)	2 PROMIS 12 Philips/ Osram 2 Each
18	Formalin Chamber (for Sterilization of Laparoscope) : Dimensions of Formalin chambers 65 cms±10cm x 20 cms.(±2cm) x 20 cms. (±2cm) with three tray made of white Opaque Acrylic	1 Divibe Indian Make
19	Tray for sterilization of Laparoscopes: 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 Jainco Indian Make



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