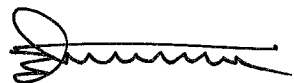


## SPECIFICATIONS OF ARGON PLASMA COAGULATOR (APC)

1. Unit should be advanced-microcontroller based technology.
2. Unit should have Digital Display with Push Button
3. Unit should perform self test during Power ON
4. Unit should have APC (Argon Plasma Coagulator) with 400 Watt Surgical Diathermy inbuilt.
5. Unit should have Digital Wattage Indication for Bipolar, Monopolar Cut and Coagulation.
6. Unit should be provided with minimum 9 levels of Endocut Facility to be used for different types of Endoscopic applications such as ERCP, PAPILOTOMY & POLYPECTOMY.
7. Unit should be provided with open and Laparoscopic hand operated argon probes.
8. Unit should be provided with 2.3 mm and 3.2 mm argon probes at least 2 meter long and necessary connecting cables.
9. Monopolar Coagulation should consist of Spray Mode to be used with APC to a plasma beam for endoscopic non contact coagulation.
10. Unit should have isolated monopolar and bipolar outputs.
11. It should have operating frequency in a range 450-680 KHz.
12. Unit should have Split Type Patient Plate contact Monitoring System for maximum Patient Safety (Unit should not deliver power until and unless maximum area of the patient plate is not covered to completely minimize the risk of post operative H.F. burns).
13. Unit should have Audio Visual Patient plate Error Monitoring System.
14. Unit should be 400W in Monopolar Pure Cut for for under water procedure.
15. Unit should have atleast Three modes in Monopolar Cut :-  
Namely Pure, Low Cut (for laproscopic procedure), Blend and Endocut for Gastric type of procedure (mode with interrupted cutting and sound for delicate and precise cutting).
16. Unit should have at least Three monopolar coagulation modes :-  
Fulgurate 80 watts for Under water coagulation, Desiccate/Force 80 watts for open and laparoscopic coagulation and soft mode 70 watts for Pin point coagulation.
17. Unit should have at least Three Bipolar mode :-  
Bipolar Cut 70 watts, Micro 60 watts and Auto-Stop mode.
18. Unit should have HF leakage monitoring system.
19. Unit should have Time-Out Facility to prevent accidental activation
20. Manufacturer should be ISO13485:2003 certified company for manufacturing and supply of electro-medical equipment.
21. All accessories provided with the unit should be reusable

### **Following accessories should be provided with the unit:**

- |    |  |         |
|----|--|---------|
| a. | Reusable Silicon patient plate with Cable  | - 1 No  |
| b. | Reusable foot switch operated monopolar handle with four different types of Electrodes | - 1 No  |
| c. | Reusable hand switch hand operated monopolar handle                                    | - 1 No  |
| d. | Reusable Bipolar forceps with cable  | - 1 No  |
| e. | 2.3 mm Flexible Argon Endoscopy Probes   | - 2 Nos |
| f. | 3.2 mm Flexible Argon Endoscopy Probes   | - 2 Nos |
| g. | Connecting cable for Argon Probes  | - 1 No  |
| h. | Open Surgery hand operated rigid Argon Probes  | - 2 Nos |
| i. | Laproscopic hand operated rigid Argon Probes   | - 2 Nos |
| j. | Hose pipe to connect APC to Argon Cylinder   | - 1 No  |
| k. | Regulator for APC flow control   | - 1 No  |
| l. | Foot switch  | - 1 No  |
| m. | Mains Cord   | - 1 No. |



Executive Director (EPM)

Rajasthan Medical Services Corporation Ltd.,  
Jaipur