

Technical Specifications for Endoscopic Surgical Workstation
Gastroenterology with High End Surgical Generator, APC and Water Jet
An integrated RF, Argon and Kinetic energy surgical platform which
coagulate and elevate tissue.
System should comprise of below

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Technical Specifications for Combined Surgical Workstation for Gastroenterology with High End Surgical Generator, APC and Water Jet for Department of Gastroenterology

Specs signed
by Prof. S.K. Sinha
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SMD
07.05.2018
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Technical Specifications for Combined Surgical Workstation for Gastroenterology with High End Surgical Generator, APC and Water Jet

An integrated RF, Argon and Kinetic energy surgical platform which can dissect, coagulate and elevate tissue.

System should comprise of below

RF Energy Platform High End Surgical -Electro Surgical Generator unit

- The electro surgical generator should be a 400 watt touch screen display with 15 digital signal processors.
- Electrosurgical unit should have option for both mono-polar and bipolar cutting
- Unit should have a Step guide suggesting appropriate setting configurations for every instrument and application.
- The system should make 25 million measurements / sec for better tissue effect and should measure tissue impedance through power peak system.
- System should have Wi-Fi compatibility for future OR integration.
- Unit should be plug & play with 5 or more universal multi-functional sockets to accommodate any instrument.
- System should have remote function to allow user to access 6 sub programs directly from the sterile field.
- Unit should have Endo cut modes for polypectomy and papillotomy procedures
- Unit should have the facility for socket exchange.
- Unit should have Soft Coagulation mode with quick start function to be used with endoscopic coagulation forceps..
- Unit should have Dry cut & Swift Coagulation mode for optimized dissection in advanced endoscopic cases like POEM (PERORAL ENDOSCOPIC MYOTOMY), ESD (ENDOSCOPIC SUBMUCOSA DISSECTION) and STER (SUBMUCOSAL TUNNELING, ENDOSCOPIC RESECTION)
- The generator should work on a supply voltage of 100 – 120 VAC & 220 – 240 VAC
- Power consumption at Max HF power should be 550 watts with max pulse power consumption of 1600 watts.

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- Unit should have Soft coagulation bipolar mode to facilitate use of bipolar instruments like gold probe.
- Supply frequency should be in the range of 50 -60 Hz.
- Unit should have the facility to store 1800 programs or applications.
- Unit should have the facility to show the active instruments on the screen display.
- The generator should have an inbuilt feature of accessory assignment.
- The generator should be compatible with Argon plasma coagulation unit having forced APC, pulsed APC and precise APC modes.
- The generator should be compatible with Hydrojet technology to facilitate use of unique hybrid technology instruments for POEM, ESD & STER from the same OEM.
- Unit must be compatible with Irrigation pump from the same OEM.
- Unit should support Nussy as a neutral electrode safety feature for the patients benefits..

Argon Plasma Coagulation (APC Unit)

For management of bleeding and devitalization of tissue abnormalities achieved by optimal coordination with RF generator

- The Argon Plasma Coagulation system should have automatic parameters setting for various types of instruments and automatic depth controlled plasma regulation.
- Should have three different APC modes suitable for different indications
 - Precise APC – adjustment made using the effect settings for finest surface coagulation(right colcon)
 - Pulsed APC – adjustment made using the parameter power settings for effective staunching of bleeding and tissue ablation
 - Forced APC – adjustment made using the parameter power settings for angiodysplasia, tissue reduction
- Should have Adjustable argon flow rate from 0.1L/min to 8L/ min in steps of 0.1 L /min with automatic regulation of selected flow rate.
- Should have the facility to use unique hybrid instruments for conditions like

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Barrett's Esophagus

- Should have automatic monitoring of flow rate and Argon supply and auto purge facility. It should have the facility to connect with central gas supply.
- Should give visual display of argon gas bottle content and should give Acoustic alarm when bottle content reaches a minimum.
- Should have facility for activation of unit by foot pedal of the Electro Surgical unit.
- Should have facility to use in single/ double balloon endoscopy procedures.
- Argon gas cylinders-4 Nos. 5Litre capacity should be supplied

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Water Jet System

For needleless water jet elevation to create fluid cushion and prevent perforation and any mechanical damage to the muscle layer and mucosa during Advanced Gastro procedures

- Should have pressure range: 1–80 bars & Volume flow: 1–65ml/min. It should indicate delivered fluid vol.
- Should adapt any sterile saline solution bag (disposable) as separation medium.
- Should be integrated with Electro surgical workstation with other accessories and facility to connect hybrid instruments for monopolar and hydro jet functions
- Should have facility to individually configure programs for different procedures.
- Water jet activation should be via footswitch and Remote facility for switching between two different user settings.
- Should have facility for various applicators to be used in flexible endoscopy.

Following accessories to be supplied with the Gastroenterology workstation should be from Same Single OEM -

- Footswitch with facility for swapping between programs – **2Nos.**
- Patient plate with equipotential ring -**500Nos.**
- Filter integrated Argon Plasma Coagulation flexible probe(side fire) – **40Nos.**
- Filter integrated Argon Plasma Coagulation flexible probe(axial fire) – **40Nos.**
- Filter integrated Argon Plasma Coagulation flexible probe(circumferential fire) – **40Nos**
- Water Jet hybrid accessories for Endoscopic application(T-Type) – **40No.**
- Water Jet hybrid accessories for Endoscopic application(I-Type)-**40 Nos**
- Water Jet hybrid accessories for Endoscopic application(O-Type)-**40 Nos**
- Pump Cartridge for Waterjet- **40Nos**
- Workstation trolley with attached Irrigation unit – **1No.**

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- Water jet hybrid APC probe with water jet and APC function – **40 Nos.**
- Monopolar cable for Endoscopic instruments – **4Nos.**
- Bipolar Cable attachment for Endoscopic Instruments – **4Nos.**
- It should be supplied with Repute Make Endoscopic CO2 Insufflator- **1 unit**

Proprietary Certificate

To whom it may concern

Erbe VIO® APC 3 and ERBE

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