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UNGOOFAARU REGIONAL HOSPITAL

Raa-Ungoofaaru, Republic of Maldives

Technical Specification for Equipment

EQUIPMENT: ULTRASONIC SCALPEL UNIT

Ultrasonic Scalpel System providing superior tissue dissection and vessel sealing capability with less thermal damage. The system should support tissue adaptive technology and should be useful for both minimally-invasive and open procedures.



OPERATIONAL REQUIREMENTS

1. Unit should have an ultrasonic generator with a frequency of 55.5 KHz capable of incising tissue and providing hemostasis with minimal thermal injury.
2. System should be compatible for open surgery and for laparoscopic surgery.
3. System should have automatic instrument recognition.
4. System should have a touch screen display for fast and setup, operation, and on-screen diagnostics.
5. System should have a footswitch for activating the ultrasonic handpiece. It shall have the option for dual footswitch.
6. System should have the ability to select hand-switch or footswitch activation for Ultrasonic energy.
7. It should not have an auto switch off feature.
8. Unit should trigger visual and/or audible warning in the (Not limited to) following conditions

- Generator overheating
 - Generator software upgrade
 - Handpiece errors and instrument errors.
9. System should be compatible with both 5mm and 10mm instruments.
 10. Unit should have minimum and maximum power settings with at least 5 settings for minimum power.
 11. System should be compatible with both 5mm and 10mm instruments.
 12. The unit should be supplied with the rolling cart.

INSTRUMENTS AND ACCESSORIES:

1. Laparoscopic transducer – 1 Nos
2. Laparoscopic Scalpel, 5.5mm diameter, 13cm long. – 1 Nos
3. Laparoscopic Scalpel, 5.5mm diameter, 22cm long. – 1 Nos
4. Laparoscopic Scalpel, 5.5mm diameter, 35cm long. – 1 Nos
5. Laparoscopic Scalpel, 5.5mm diameter, 45cm long. – 1 Nos
6. Open surgery transducer– 1 Nos
7. Open surgery Scalpel, 9cm long. – 1 Nos
8. Open surgery Scalpel, 17cm long. – 1 Nos
9. Pedal switches– 1 Nos
10. Cart– 1 Nos

WARRANTY AND MAINTENANCE

1. Warranty period of minimum 24 months should be given starting from the date of installation.
2. Advanced maintenance tasks required must be documented and carried out FOC during the warranty period
3. The equipment should have spare parts available for more than 5 years after the purchase dates

DOCUMENTATION

1. User, technical and maintenance shall be supplied in English language.
2. List to be provided of important spares and accessories with their part numbers.
3. Contact details of both local supplier and manufacture for service and maintenance must be provided

TRAINING

1. Application training must be given to the corresponding staffs within 1 month after installation
2. Manufacturer standard technical training on basic service and maintenance must be given to the biomedical engineers/ technicians within 2 months after installation.

OTHER REQUIREMENTS

1. The system must be FDA approved and CE marked
2. Authorization letter should be provided