



Notice Inviting e-Tender

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**Procurement of 3 type of Medical items for Department of General Surgery
Deben Mahata Government Medical College & Hospital.**
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-375/2025

Dated-08.05.2025

Amendment-II

Revised Technical Specification

Schedule-II

Vessel Sealer Device with open and Laparoscopic hand instruments with in-built cut function:

1. It should be an integrated system with 350W output generator and a single 7" touch screen having four quadrants for Monopolar, Bi-Polar, Vessel Fusion one generator.
2. The generator should not weigh more than 10Kgs having dimensions (7*14.5*18.2 inches) (H*W*L)
3. The system must be micro-processor controlled which should identify the tissue type with a feedback min. 4,30,000 times/second on real basis and adjust the power to get the desired surgical effect on the tissue.
4. The Power Efficiency Rating of the generator should be 95-99.
5. System should have 2 monopolar outputs, 1 Bipolar output and 1 Vessel Sealing output.
6. The Monopolar Mode should have

Monopolar Cut

- a) Pure: 300W or more
- b) Blend: 200W or more

Monopolar Coag:

- a) Fulgurate: 120W or more

- b) Shared Fulgurate :120W or more
- c) Spray: 120W or more
- d) Shared Spray: 120W or more
- e) Soft: 120W or more
- 7. It should have facility to use shared coagulation mode with two pencils of two buttons or one pencil of two buttons & one pencil of three buttons.

The Bi-Polar Mode should have

- a) Precise: 70W
- b) Standard: 70W
- c) Macro: 70W
- 8. Unit should have Auto bipolar more or advance bipolar mode with delayed time setting which when activated, unit senses tissue impedance between the two bipolar electrodes, then uses the impedance information to automatically start or stop bipolar energy delivery. Optionally, the user may select a timed activation delay for auto start and RF activation. The power settings can be increased/decreased of Bipolar precise mode by 0.5 watts.
- 9. The system should have a current ammeter, to display the conductivity of the bipolar energy and should have audio indication.
- 10. The internal storage capacity of the unit **should be 8GB or minimum 100 programs**
- 11. System should have separate monopolar, bipolar, bipolar resection & Vessel Sealing foot pedal.
- 12. The system should have one different Vessel Fusion output which should be able to seal artery, veins along with tissue bundle up to and including 7mm in diameter, and fused vessels should be able to withstand more than 3 times of normal systolic blood pressure.
- 13. The Vessel seal system should be of minimum of 300W at a rated load of 20 ohms.
- 14. The vessel sealing system should support open and laparoscopic hand instruments
- 15. The vessel sealing hand instruments should have curved jaw & its cutting should be independent of sealing.
- 16. Vessel hand instrument jaw should be nano coated for faster cooling and less thermal spread.
- 17. Thermal spread should be at least less than 2mm.
- 18. Vessel sealing should be an option of enabling or disabling the footswitches.
- 19. System should have audio visual indication for sealing complete and in complete
- 20. System should have audio visual indication for sealing complete and in complete
- 21. The system should have a demo mode facility and recall facility to recall the last setting used by the user.

22. System should be compatible of polyhesive contact quality monitoring system.
23. Unit should have Split Type Patient Plate contact quality monitoring System for Maximum Patient Safety (Unit should not be delivering power until and unless maximum area of the patient plate is attached to patient body to minimize the risk of post-operative cautery burns).
24. System should have audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.
25. The system should be able to save user-configurable favourite preferences.
26. System should be Compatible with Argon Coagulator and smoke evacuation system.
27. The system should be upgradable and should have RS232, USB, Ethernet port for on field software downloads, upgrades and serviceability.
28. The system should be able to connect and function with a cardioblate device for Cardiac tissue ablation procedures.
29. **Good quality mounting cart to be** provided with the equipment.
30. Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable.

Accessories: The System must be accompanied with the following set of accessories:

- a) Monopolar Footswitch - 1
- b) Bipolar Footswitch - 1
- c) Vessel Sealing Footswitch - 1
- d) Universal Adapter - 1
- e) Laparoscopic marry land type Vessel Sealing Instrument **with inbuilt cutting**- 2
- f) Paediatric disposable type patient plate 02
- g) Neonatal disposable type patient plate 02
- h) Adult disposable type patient plate 05
- i) Double button disposable hand switching pencil 05
- j) **Curved jaw open instrument, vessel sealer divider - 10**