



अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छत्तीसगढ़)  
All India Institute of Medical Sciences, Raipur (Chhattisgarh)  
Tatibandh,  
Raipur-492 099 (CG)

Store/Tender/Thunderbeat/1/2015/AIIMS.RPR


Dated: - 30-10-2015

**Subject:** Purchase of High Frequency Advance Electrosurgical unit ESG-400 (Thunderbeat) for Department of General Surgery at AIIMS, Raipur on Proprietary basis - Inviting comments thereon.

The institute is in the process to purchase **High Frequency Advance Electrosurgical unit ESG-400 (Thunderbeat)** for the department of General Surgery at AIIMS, Raipur from M/s Olympus Medical System Corp., Japan on proprietary basis. The local agent for above item is **M/s Dee - Dee Enterprises, Raipur**. The proposal submitted by department of General Surgery at AIIMS, Raipur and PAC certifications are attached and uploaded on website.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the Accessories/item with 15 days from the date of issue/uploading of the notification giving reference **Store/Tender/Thunderbeat/1/2015/AIIMS.RPR**. The comments should be sent to Store Officer, AIIMS, Raipur on or before 15-11-2015 up to 3:00 pm. failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

  
(Sk Gulam Jaweed)  
Store Officer  
AIIMS, Raipur

Encl.: Related documents enclosed (Specification and PAC)

# Certificate for Purchase of Proprietary Article

Page. 02

- (1) Description of Article ----- Advanced Electrosurgical unit for  
----- secure vessel sealing of 7mm diameter  
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- (2) Quantity ----- 01 -----
- (3) Approximate cost, if known ----- RS 15,00,000/- -----
- (4) Maker's name and address ----- Olympus Medical System Corp. -----
- (5) Name of Local Agents ----- DEE-DEE Enterprises -----  
----- Raipur -----

(6) I approve the above purchase and I certify that:

- ☒ (a) No other make/brand will be suitable.
- ☒ (b) This is the only firm who is manufacturing/stocking this item.
- ☒ (c) A similar article is not manufactured/sold by any other firm, which could be used in lieu.

Note- Delete (a) or (c) whichever is not necessary.

Date ----- 05-10-2015 -----

Signature ----- *Dr. Debasjoti Mohanty* -----

Designation of Officer ----- Associate Professor -----

**Dr. Debasjoti Mohanty** *Surgery*  
M.S. (General Surgery)  
Associate Professor  
Department of General Surgery  
AIIMS, Raipur (C.G.) 492 099

## **Technical Specification for High Frequency Advance Electrosurgical unit**

### **Microprocessor Controlled High Frequency Advance Electrosurgical Unit :**

Should have following specifications:

- 1) Operational compatibility for all Lap/Gyn/Uro/Open Surgery
- 2) Should have boot time not more than 6 Sec
- 3) Should have built-in regulated fan
- 4) Should have LCD and Touch Screen user Interface
- 5) Should have memory function with characters
- 6) Should have 4000 times feedback control cycle per second
- 7) Should have Fast Spark Monitor ensures smooth and reproducible cutting in varying tissue (e.g., muscle & fat)
- 8) Should have Automatic Saline Detection mode
- 9) Should be supplied with Disposable patient plates etc.
- 10) Should be Compatible with Existing Ultrasonic Generator & upgradable to a Vessel Sealer Upto 7mm
- 11) Upgradable System should have Rapid Dissection and Reliable Hemostasis up to 7mm Vessels in a Single Instrument.
- 12) Instrument recognition and automatic application of default settings for ease of use.
- 13) Provision for Automatic mist and smoke evacuation to maintain a clear laparoscopic view reducing delays associated with compromised visualization when combined with Co2 Gas Insufflator.
- 14) HF Unit should have operational compatibility for all Lap / Gyn / Uro / GI / Open Surgery and should have minimum 16 Monopolar & Bipolar modes to cover all OR requirements, boot time not more than 6 Sec, 4000 times feedback control cycle per second.
- 15) LCD and Touch Screen user Interface
- 16) HF unit should have Fast Spark Monitor ensures smooth and reproducible cutting in varying tissue (e.g., muscle & fat).
- 17) High Frequency device should have CF type Protection against electric shock
- 18) Device should have dedicated Seal and & Seal & Cut mode by hand activation as well as foot switch without exchanging the instruments.
- 19) Device should have best in class versatility, upto and including 7 mm vessel sealing capability, Fast cutting speed, Fine and easy dissection. Haemostatic seal mode,

*Hobanki*



Optimized grasping etc for getting less instrument usage & exchange, uninterrupted operation flow and reduced OR time.

20) The device should be FDA approved and CE certified.

21) Should have minimum 16 output modes .

**a. Monopolar Cut Modes :**

- b. PureCut for continuous cutting
- c. BlendCut for Continuous cutting with Coagulation
- d. PulseCut Slow for Intermittent cutting with long coagulation
- e. PulseCut Fast for Intermittent cutting with short coagulation

**f. Monopolar Coagulation Modes :**

- g. SoftCoag for Soft and deep coagulation
- h. PowerCoag for Fast coagulation and dissection
- i. ForcedCoag for Fast coagulation
- j. SprayCoag for Contact-free superficial coagulation

**k. Bipolar Cut Modes :**

- l. BipolarCut for Continuous cutting
- m. SalineCut for Continuous cutting in saline

**n. Bipolar Coagulation Modes :**

- o. BiSoftCoag for Soft coagulation (+/- Autostart)
- p. AutoCoag for Soft coagulation with Autostop
- q. SalineCoag for Coagulation in saline
- r. HardCoag for Clamp coagulation with Autostop
- s. FineCoag for Fine coagulation
- t. RFCoag for Deep (tumor) ablation with Autostop

22) Device should be supplied with following instrumentations:

- a) Advanced HF Generator with Foot Switch.
- b) Communication Cables
- c) Autoclavable Transducer with cable (1 pcs)
- d) Hand piece probes for lap 5mm 35cm (2pcs)
- e) Hand Piece probes for open surgery 5 mm 20cm (2pcs)
- f) Hand Piece probes for Bariatric surgery 5mm 45 cm (2pcs)

*Handwritten signature/initials*