

Annexure-A

Re-Tender No. DEN/EQ/C/13

Imphal, the 17th Nov, 2015

(All the equipments/items should be US FDA approved/CE Certified)

Item no.1:- 10 HP Air Compressor

Specifications:- Compressor of 10 HP with tank capacity of 1500 litres, 100% oil free, bacteria free & moisture free compressed air deliver system.

i.	Duty Cycle	--	100%
ii.	Starting pressure	--	6 to 6.5 Bar (adjustable using a switch)
iii.	Switch off pressure	--	7 to 7.5 bar (adjustable using a switch)
iv.	Safety valve at 10 bar.		
v.	Relative Humidity in operation	--	70% Max
vi.	Voltage	--	220-400 volts

N.B:- 1 Bar = 1.019716213 kilogram-force/square Centimeter (Kg/cm²)

Item no.2:- Intra Oral Camera

Camera Out put

i) 1 S- video output

ii) 1 PAL output

iii) 1 NTSC output

iv) 1 VGA video output

v) 1 digital USB 2.0output

vi) 1 SD card socket

vii) 1 DC power output

viii) Sensor technology 1/ 2.5 inch CMOS

ix) Resolution 1024 x 768 pixels

x) Lighting super white LEDs/class 1 LED according to IEC 60825-1 FOV 80°

xi) View angle 90°

xii) Video Signal

a) S-Video

b) TV (PAL, NTSC)

c) VGA Digital Connection

d) USB 2.0 high speed

xiii) White balance automatic

xiv) Adapter

xv) Adapter AC Adapter complies with IEC 60601-1

xvi) Output of Adapter DC 6v, 2.5 A.



Item no.3:- Technical Specification for Electro surgery unit cum Vessel sealing:-

- i. The unit should be a Microprocessor controlled 350 KHz output, up to 400 Watts class Electro surgery unit with TFT single display having Touch Screen(Key Touch)
- ii. Visual indicator for the actual power being delivered through Bar Graph.
- iii. The unit should have universal socket for Bipolar, Monopolar & Neutral Output socket along with multifunctional socket for Vessel sealing based on plug & play mechanism, also having the facility to upgrade to additional socket if required.
- iv. The Unit should have heat dissipation without external air passing inside the unit i.e. Internal Cooling System (no conventional external air cooling system).
- v. The Unit should have precise Monopolar and Bipolar modes for fine & Micro-Surgery applications.
- vi. The unit should have facility to use very less voltage from 40 Volts for precise applications.
- vii. The unit should have the facility to upgrade with twin coagulation for simultaneous activation of 2 electrodes.
- viii. The unit should have Bipolar Auto start functions.
- ix. Automatic control of output power according to all currently available electrosurgical regulative technologies.
- x. Should have the facility for preview function to shows the expected target tissue effect on display even prior to activation.
- xi. Should have the facility to be up to date with the upgradable feature on site.
- xii. Should have facility to program more than 190 with procedure or surgeon's name.
- xiii. Should have facility of self check of the unit after every On & Off of the unit.
- xiv. Should have facility to upgrade with optional precise Bipolar Cut & coagulation up gradation or down gradation.
- xv. Possibility for Upgrading to APC, Irrigation System, Smoke Evacuation System.
- xvi. Unit should have Type: Protection Class CF, Class 1, 1 lb.
- xvii. Under maximum power settings and rated load conditions, the generator should be capable of operating at a duty cycle of 25%, defined as 10 secs. active & 30 secs. inactive, in any mode for a period of 4 hours..
- xviii. Power efficiency rating for Monopolar & Bipolar Output characteristics should be more than 95%.
- xx. Should have continuous patient monitoring with return electrode (neutral electrode).
- xxi. Neo-Natal safety system and neutral electrode safety system for the pediatric applications.



- xxii. Reusable vessel sealing instruments for open surgery - FDA approved instruments for 7mm vessel sealing with 23 degree bent and 150mm length.
- xxiii. The unit should have special solution for charging the power settings without touching the equipment.
- xxiv. The unit should be supplied with nonstick bayonet bipolar forceps of 1mm blunt & 0.4mm fine tip having length of 170mm- 200mm with guide pin maintains parallel.
- xxv. The unit should be supplied with all standard accessories to make the system to work full functional includes (All accessories should be from same manufacturer):
 - a. Two pedal and single pedal foot switch - 1 no. of each.
 - b. Nonstick Bipolar Forceps & Cable - 1 no. of each.
 - c. Reusable Monopolar Pencil with Cable - 2 nos.
 - d. Reusable Patient Plate with Cable - 2 nos.
 - e. Reusable Vessel Plate with sealing for open - 1 no.

Item No.4:- Electrocautery for periodontic department

- i. Radio Frequency Electro Surgical Unit.
- ii. Normal Operating frequency: 3.68Mhz.
- iii. Coagulation Modulation Frequency: 120Hz.
- iv. Output Impedance: 600 Ohms.
- v. Cord Assemble- Straight Knife 1, Small Loop 1, Coagulation Ball 1.
- vi. Cord Length Minimum 1.5 meters.



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