

Annexure-A

No.DEN/CHAIR/RIMS-14

Imphal, the 28th February 2014

Item No. 1:- Dental Chairs

Specifications:-

- (I) Dental chair and unit- electrically operated with the following basic items
- (A)(i) Air Rotor points-3 (1 fibre- optic & 2 regular)
- (ii) 3 way syringe point
 - (iii) Airmotor point
 - (iv) Suction high & / or medium and low
 - (v) X- Ray viewer (LED)
 - (vi) Light (LED):- Max intensity not less than 20000 lux.
 - (vii) Ultrasonic scaler with 3 tips
 - (viii) Light cure unit
 - (ix) Standard accessories such as instrument tray, spittoon, and Dental operator stool with height adjustment etc.
- (B) Accessories
- i) Micromotor (not inbuilt) -20 nos.
 - (a) Contrangle hand piece -20 nos.
 - (b) Straight hand piece - 20 nos.
 - ii) Airotor hand piece (contrangle) - Regular 5 nos.
 - iii) Airotor Fibro- optic hand piece - 5 nos.

Item No.2:- Paediatric Dental chairs

- A) (i) Air Rotor points -3 (1 fibre- optic & 2 regular)
- (ii) 3 way syringe point
 - (iii) suction high & / or medium and low
 - (iv) x-Ray viewer (LED)
 - (v) Light (LED) :- Max intensity not less than 20000 lux.
 - (vi) Ultrasonic scaler with 3 tips
 - (vii) Light cure unit
 - (viii) Standard accessories such as instrument tray, spittoon and Dental operator stool with height adjustment.
- B) Accessories
- (i) Micromotor (not inbuilt) with miniature contrangle hand piece – 10 Nos.
 - (ii) Airotor Miniature contrangle hand piece – 10 nos.
 - (iii) Air Compressor with 10 HP motor (Oil free & low noise) with 500 litre capacity tank – 3 nos.

Item No.3:- Intra Oral X-Ray Unit

Specifications:-

X- Ray generator 300 Khz very high frequency focal spot 0.7 mm CEI tube current – 60-70 Kv Mounting –floor, mobile cone- long cone synchronization link with RVG system.

Item No.4:- Radiovisiography

Specifications:-

- i) Digital Intra X-Ray system with one sensor and software,
- ii) 1 with pedo sensor and software.

Item No.5:- Intra Oral Camera

Specifications:-

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 80⁰
 - xi) View angle 90⁰
 - xii) Video signal
 - xiii) S- Video
 - xiv) TV (PAL ,NTSC)
 - xv) VGA Digital connection
 - xvi) USB 2.0 high speed
 - xvii) White balance Automatic
- ADAPTER
- xviii) Adapter AC adapter complies with IEC 60601 – 1 Output of adapter DC 6V, 2.5A .

Item No.6:- Laser

Specifications:-

- i) General * Dimension 5.7 in (W) x 4.4 in (H) x 6.5 in (L) * Weight 2.5 lbs /1 Kg
- ii) Electrical * Operating Voltage 100 V + 10 % and 230 V 10 % ~ at 2 A
- iii) Frequency 50 -60 Hz
- iv) External Fuses None
- v) Main Control Power Switch

vi) On /Off Control Button , Emergency Stop

vii) Remote Interruption Remote Interlock

Laser * Laser Classification * Operating System IV (4)

Microprocessor based software

- viii) Medium InGa AsP
- ix) Wavelength 940 10 nm
- x) Max Output Power 10 watts
- xi) Power Accuracy 20 %
- xii) Power Modes Continuous, Pulse Modulation
- xiii) Pulse Duration
- xiv) Pulse Interval
- xv) Pulse Repetition Rate
0.01 ms – 10 sec.
0.01 ms – 10 sec.

Upto 20 KHz (for reference)

- xvi) Fiber Tips Diameter 200,300,400 Dm
- xvii) Spot size
- xviii) Surgical handpiece Max. 400 Dm
- xix) Deep Tissue Handpiece 30 mm diameter = 7.1 cm² area
- xx) Whitening handpiece Rectangular 35 mm x 8mm – 2.8 cm
- xxi) NOHD 4.77 meters
- xxii) Beam Divergence 8-22 degrees per side angle
- xxiii) Standard fiber Cable Length 5 feet (1.524 meters)
- xxiv) Feed – Through Fiber Cable Length 8 feet (2.438 meters) Other light Sources
- xxv) Aiming Beam Laser Diode , max 1 mW, 635 nm 10 nm.

Item No.7:- Oven (Hot air Oven)

Specifications:-

- i. Study double walled construction with inner chamber made of highly polished stainless steel and outer chamber made of mild steel sheet finished durable powder coated paint.
- ii. 75mm gap between the walls filled with special grade glass wool for proper insulation to avoid heat losses
- iii. Shelves made of polished stainless steel.
- iv. Inner chamber with ribs to adjust shelves to any convenient height / (supplied with 2 or 3 removable shelves)
- v. Insulated door fitted with heavy hinges with specially designed spring – loaded door closing device
- vi. Door gasket made of synthetic rubber compound instead of asbestos
- vii. Temperature controlled by an electronic digital temperature controlled – cum – indicator. Wide temperature range 50⁰ C to 250⁰C for various applications.
- viii. Heating by high grade imported Nichrome wire
- ix. Air ventilator ports
- x. Provision for fixing the timer
- xi. Suitable to operate on 220 V single phase , 50 H z AC supply
- xii. Size of inner chamber WxHxD (455mm x 605mm x 455mm) capacity - 125liters
No. of shelves - 3
Load – 2.0kw.


Item No.8:- Electrocautery
Specifications:-

- i) Electrocautery (220 – 240 volts)
- ii) Mode : Cut, cut & Coag, Coag, Fulguration ,Bipolar
- iii) Output Voltage:Variable from 500 to 600 \pm 20 %
- iv) Output Power : 0~ 100 w
- v) Output frequency : Monopolar mode – 4.00 MHz.
- vi) Bipolar mode – 1.71 MHz.
- vii) Mode & Output Waveform : Cut (Fully Filtered) Cut & Coag (Fully Rectified)
- viii) Coag (Partially Rectified)
- ix) Fulguration (Spark –gap _Bipolar).

Item No.9:- Surgical motor with physio dispenser
Specifications:-

Type:-

- i) Max. torque at the rotary-Instruments
(in program 4) 70 N cm
 - ii) Mains Voltage 220-240v,50/60 H
 - iii)Max. mechanical output power 70 W
 - iv)Max. torq at the motor 5.5 Nem
 - v)Motor speed range in the nominal-
 - vi)-Voltage range 300-40,000 min
 - vii)Intended transmission--instruments ISO connection
 - viii)Program 4 & 5 3946 (DIN 13.940), transmission ratio 1:1,
20:1 exclusively with WI-75 or Ws -75 models.
 - ix)Length of motor cable 1.8 m
 - x)Coolant flow rate at 100% Min.90ml/min
 - xi)Foot control Yes.
- High/width/depth-


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