

SPECIFICATIONS OF VENTILATOR ELECTRICALLY OPERATED DENTAL CHAIR AND UNIT and DENTAL X-RAY

1. Electrically Operated micro processor based multi programmable Dental Chair with both left and right handed dentistry option. Dental Chair and Unit should have certification from European CE/ USFDA and ISO 9001:2008 and ISO 13485:2003.

2. The Chair should have Erasable Programs with Microprocessor controlled, where Doctor can set his own programs. The Program switch should be fitted to the instrument Tray. Program 0 and Gargling. 1 & 2 erasable Program

3. Perfectly body contoured chair

4. The Right side Arm of the Chair has lateral rotation for easy access of the Patient.

Chair Mount Unit fitted with:

- a) LED Light with 3 intensity with 3 axis movement, 25,000 to 40,000 Lux, maximum power consumption should be 4 to 6 watts.
 - On/off by sensor switch non-touch
 - 3 step Intensity control by non-touch sensor
- b) Auto water connection for Spittoon and Tumbler. Total basin cover should be single piece high quality porcelain with perfect smooth spittoon with removable and autoclavable cannula for better hygiene.
- c) STAINLESS STEEL INSTRUMENT TRAY for keeping instruments.
- d) LED X-RAY VIEWER
- e) High & low vacuum motorized suction with flow control valve, auto drain & auto flush system.

Modular fitted with:

A. AIROTOR

- i) Air rotor handpiece clean head with a speed of 3,50,000 RPM(Kavo/ NSK/ Sirona/ W&H) 1Nos.
- ii) Airtor unit with Control box fitted with transparent Regulated water tank, foot control. Supplies with Titanium / SS Airtor Torque Hand piece with cellular optic light, Ultra push type non-retraction valve 1Nos.

B. Brushless Micromotor for Clinical Use (Kavo/ NSK/ Sirona/ W& H)

Micro motor Brushless Speed range 2000-40,000 RPM With digital display of speed should be supplied with:

- i) Contrangle Hand piece Autoclavable speed 40,000 RPM(Kavo/ NSK/ Sirona/ W& H) 1 Nos

- ii) Straight Hand piece, Autoclavable speed 40,000 RPM(Kavo/ NSK/ Sirona / W& H) 1 Nos

- C. **3 Way Syringe for Air , Water & Spray** 2 Nos
One for Doctor and one for Assistant

D. Ultrasonic Scaler

Piezotronic Scaler 28,000- 32000 Khz frequency. Autoclavable Handpiece total control is micro processed based control unit. Handpieces most sleek. The scaler is supplied with: Piezotronic Scaler with 4 tips (EMS /Satelac /NSK/W&H) 1 Nos

E. LED LIGHT CURE UNIT

Ensures up to 1300mW/sq.cm, with 4 curing modes (RAMP, Fast, Long , Pulse) . It should be with powerful Li-ion battery with increased capacity. Ensures upto 4,000 Sec work. 1 Nos

Air Compressor

- Oil-free, Medical Grade, Noise free 0.75 to 1 HP Compressor
- The Compressor should be fitted with:
 - Auto head Air Release Valve.
 - Automatic Cut-off.
 - Safety Release Valve.
 - Drain Valve.
 - Pressure Gauge.
 - The Inner surface of the Compressor Tank is coated with Epoxy to prevent rusting.

Dental Operators Stool:

Should be latest Surgical Stool having rising and lowering by pneumatic piston with powder coated legs (Stool frame made of strong rust proof material). Back rest should move forward and backward along with the body by pneumatic piston and it should give support all the time. The seat should have a piston to move with the body when a Surgeon leans forward.

Moving on five wheels with Euro molded seat, back rest, pneumatic system for upward and downward movements.

Suction Apparatus (additional apart from main unit):

Should motorized suction with auto flush and auto drain system, be made up of steel epoxy coated fitted with oil immersed motorized vacuum pump with two graduated suction jars each of 1.5 Litre capacity with synthetic rubber Lids, long pressure tubing, vacuum control, automatic overflow cut off device, should be mounted on rubber wheels.

VALIDATION FOR COMPANY'S NAME BE MENTIONED:

Airotor / Micromotor / Scaler

These are the vital compliment in the dental unit. Earlier days before the global economy only leading Companies which are established to do business in India. When the economy opening unknown sub-standard product have made the way to the Indian market specially because we in our country like other country no registration & standardization procedure.

Keeping all these in view we have specified 4 to 5 company's product because these are the global leaders branded item. They are in the market globally for more than 40 to 50 years in India. They have a total quality which is well approved in the private market. These are the brands which satisfied 99% of the private practices and they are all backed up by local service. No doubt, if we specify single Company name it is against the law of monopoly practice. Since we have given the wide selection, we are sure that we should have one of these products for smooth working.

2. DENTAL X-RAY UNIT 70 KV, 6 to 8mA

- ◆ 70 KV , 6 to 8mA (AERB approved), digital timer with the Scissor Arm
- ◆ High Frequency/ DC
- ◆ Dental X-ray built in automatic Arch timer and time can be adjusted manually, if required.
- ◆ Mode for Adult ,Children & RVG

Specification:

- 1) Operating Voltage: 220 – 230 VAC - 50 HZ (+/- 10%)
- 2) Exposing Time : 2 Secs. Max. / 0.1 Sec. (Min.)

Features:

- Digital Display provided for Exposure Time setting.
- Separate Hand operated Switch is provided for the wireless remote control of X-ray exposure.
- Easy Exposure time set control by soft touch buttons.
- Automatic Power cut-off at low / High Voltage as a Safety measure for X-ray Tube Head.
- Microprocessor based Controller for setting accurate Exposure time.

X-Ray Tube Angulations:

X-ray Tube can be moved to any position convenient to the patient with the help of Arm and Hinge arrangements. The X-ray Tube can also be rotated around its axis both Vertically (270 Degree) and Horizontally (360 Degree) to help selection of correct angulation.

Technical Data:

Frequency	:	50 / 60 HZ
Input current	:	220 / 240 V
Tube Voltage	:	70 KV
Anodic Current	:	6 to 8 mA
Total Filtration	:	2 mm Al
Focal Film Dis	:	20 Cms.
Focal Spot	:	1 (IEC-336)

Note: It is very important; X-Ray should have the BIS/European CE/ FDI Mark for the specific Model offered. AERB certificate for the specific Model is must.

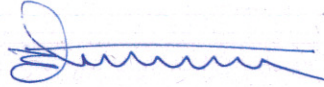
The Unit should be provided with DAYLIGHT DEVELOPING SYSTEM:

Manual Day-Light X-ray Developer : It is a compact Developing System with Viewing Window. The total body construction is of Non-corrosive Fiber Glass.

Supplied with:-

- a) Non Corrosive Tanks for Solution - 3 Nos.
- b) Hanger of 10 Clips - 1 No.
- c) Loose clips - 5 Nos.

Note:- As per the modified & approved offer, firm has agreed to supply Hand Pieces and Brushless Micro Motor of Bien Air make USA in place of NSK hand pieces.



Executive Director (EPM)

**Rajasthan Medical Services Corporation Ltd.,
Jaipur**