

## TECHNICAL SPECIFICATION DENTAL CHAIR WITH UNIT

1. Electrically operated microprocessor based multi programmable Dental Chair with both left and right handed dentistry option. Dental chair and unit should have certification from BIS/ CE/USFDA and ISO 9001:2008 and ISO 13485:2012
2. The chair should have minimum 2 erasable programs with Microprocessor controlled, where Doctor can set his own programs. The Programs switch should be fitted to the instrument tray.
3. Perfectly body counteracted chair.
4. The Right side arm of the chair has lateral rotation for easy access of the patient.
5. The Chair base should have rubberized cover.

### **Chair Mount Unit fitted with:-**

- a) Water connection for spittoon and tumbler. Spittoon should be made up of single piece high quality porcelain and it should be removable for cleaning to maintain better hygiene.
- b) Stainless steel instrument tray for keeping instruments.
- c) Water adjustment for handpieces should be in coupling.
- d) LED X-Ray viewer. (Emitting white light)
- e) High & Low vacuum suction with flow control valve; auto drain and flush system having flow rate of 300 ltrs per minutes  $\pm 10\%$  tolerance.

### **Under Arm Delivery Unit fitted with:-**

- A. **Airrotor** (Kavo/NSK/Sirona/W&H/Bien Air/ Tekne Dental).
  - i. Air rotor handpiece clean head with a speed of 3,50,000 RPM
  - ii. Air rotor unit with control box fitted with transparent regulated water tank and foot control. Supplies with Titanium/SS Air rotor hand piece with cellular optic light with water spray control. Ultra push type non-retraction valve.
- B. **Brushless Micromotor for Clinical Use** (Kavo/NSK/Sirona/W&H/Bien Air/Tekne Dental) 1 No.
  - i. Micro motor Brushless speed range 2000-40,000 RPM with digital display of speed should be supplied with
  - ii. **Conrangle hand piece** autoclavable speed 40,000 RPM (Kavo/NSK/Sirona/W&H/Bien Air/ Tekne Dental) 1 No.
  - iii. **Straight handpiece** autoclavable speed 40,000 RPM (Kavo/NSK/Sirona/W&H/Bien Air/ Tekne Dental) 1 No.
- C. **3 Way syringe for Air, Water & Spray**  
1 No. One for Doctor
- D. **Ultrasonic Scaler**  
(EMS/Satelac/NSK/W&H/ Bien Air/ Tekne Dental).  
Piezotronic scaler 28, 000 - 32,000 Khz frequency. autoclavable handpiece total control is micro processed based control unit. Handpiece most sleek. The scaler is supplied with Piezotronic scaler with 4 tips
- E. **LED Lightcure unit**  
Unit Light with 2 intensity having intensity of 20,000 to 40,000 Lux and maximum power consumption should be 4 to 6 watts. On/Off by sensor switch non-touch. Light head handles should removable for better hygiene. Ensure upto 1200 mW/sqm with 3 curing modes (RAMP, Normal, Pulse). It should be with powerful Li-ion battery with increased capacity. Ensure upto 4,000 sec work.

### **Air Compressor**

- Oil free, medical grade, Noise free 0.75 to 1 HP compressor.
- The compressor should be fitted with:-
- Built in thermo cut off to save the motor during excess of heat.
- Auto head Air release valve
- Automatic cut off
- Safety release valve
- Drain valve
- Pressure gauge
- The inner surface of the compressor tank should be coated with epoxy to prevent rusting.

### **Dental operators Stool**

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Should be latest surgical stool having rising and lowering by pneumatic piston with powder coated legs(stool frame made of strong rust proof materials). 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 moulded seat, back rest, pneumatic system for upward and downward movements.

**Suction Apparatus (additional apart from main unit)**

Should be motorized suction, 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/silicon 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**

**Airtor / Micromotor / Scaler**

These are the vital component in the dental unit. Earlier days before the globalization of economy only established leading Companies were allowed to do business in India. But soon after opening of Indian economy unknown sub-standard products have made their way to the Indian market, especially because we in our country like other developing countries do not have registration & standardization procedures.

Keeping all these in view we have specified 4 to 5 company's product because these are the global leaders and have branded items. They are in the market globally for more than 40 to 50 years in India. They have total quality product, which is well approved in the private market also. These are the brands which satisfied 99% of the private practices and they are all backed up by local service centers throughout the country. 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.

-There should be guarantee of Three Years in all equipments. CMC shall be given @ 5 % for 5 years after guarantee period with 5 % escalation every year

-Demonstration of the equipment is required.

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**Executive Director (EPM)  
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