

## Dental Unit

No.	Item Specifications	Fill your Specification
A	<b>Manufacturer:</b>	
B	<b>Model No.:</b>	
C	<b>Origin:</b>	
1	<b>Description of Function</b>	
1.1	A Dental chair for Dental treatment	
2	<b>Operational Requirements</b>	
2.1	It shall operate on AC power supply.	
3	<b>System Configuration</b>	
3.1	Delivery Bed with complete attachments and accessories.	
3.1	Patient chair, 1 unit	
3.2	Working stool, 2 units	
3.3	High speed hand piece, 2 units	
3.4	Low speed motor with 1 straight hand piece & 1 contra-angle hand piece, 1 set	
3.5	A built-in light cure unit	
3.6	A built-in ultrasonic scaler with one each of pointed and flat scaler tips	
3.7	One air compressor at least 1 horse power	
3.8	One suction unit at least 1 horse power	
3.9	One unit of automatic amalgamator	
3.10	One set of amalgam carrier with tips and one amalgam well	
3.11	One set of 4 pieces of amalgam condensers	
3.12	One set of 5 pieces of amalgam carvers	
3.13	One set of 5 pieces of burnishers	
3.14	Bidder shall indicate brand and model information here and provide technical data document for major components specified above.	
4	<b>Technical Specifications</b>	
4.1	Patient type: adult & paediatric & deformity.	
4.2	Main unit standard configuration as follow:	
4.3	<b>Patient chair:</b>	
4.4	With electrical chair movement and deluxe double articulated headrest.	
4.5	With one left armrest as standard.	
4.6	3 pre-set chair positions: start, treatment and rinsing position.	
4.7	Electrical patient chair loading capacity: not less than 1323N (135kg).	
4.8	Backrest movement range 105°-175°.	
4.9	The lowest position of the patient chair from the ground shall not be less than 380mm.	
4.10	The highest position of the patient chair from the ground shall not be less than 780mm.	
4.11	Chair movement is controllable by the 4 way foot control at the chair base without touch panel.	
4.12	No cables on the floor, hygienic and clean.	
4.13	One main switch to control air, water and power.	
4.14	The chair position is locked while an instrument is working.	
4.15	With chair-backrest safety system, backrest and seat movement can be stopped once it meets obstacle.	
4.16	<b>Dentist element:</b>	
4.17	Dentist element with whip arm system.	
4.18	Height of dentist element is adjustable.	
4.19	1 X-ray film viewer (12V, 2000cd/m2).	
4.20	1 silicon mat for the dentist element which can be sterilized.	
4.21	1 three way syringe.	
4.22	3 ISO 4-hole/Midwest hand piece hoses.	
4.23	1 air pressure meter.	
4.24	<b>Assistant element:</b>	
4.25	1 three way syringe.	
4.26	1 strong suction hose.	
4.27	1 saliva ejector.	
4.28	With suction filter system.	
4.29	<b>Water unit:</b>	
4.30	The cuspidor can be swivelled and removable for easy cleaning.	
4.31	Cup filler and bowl rinsing systems shall prevent over filling of cup and prolong rinsing of bowl. Preferably programmable.	
4.32	With automatic water heating system (24V)	
4.33	With water venturi and air water separator system	
4.34	Fresh water bottle, at least 1.5L	
4.35	<b>Operating light:</b>	
4.36	Colour temperature: 3800-4500K.	
4.37	12V, 50 Watt Halogen bulb or Better.	
4.38	Dental light intensity: min 25000lux with intensity dimming function.	
4.39	Working stool, 2 units.	
4.40	Mobile on 5 castors.	
4.41	Height of seat and backrest is adjustable.	

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4.42	Backrest angle is adjustable and lockable.	
4.43	Come with NSK or equivalent high speed hand piece, 2 units.	
4.44	Come with NSK or equivalent low speed motor with 1 straight hand piece & 1 contra-angle hand piece, 1 set.	
4.45	Come with a built-in light cure unit.	
4.46	Come with a built-in ultrasonic scaler with one each of pointed and flat scaler tips.	
4.47	Come with one unit of automatic amalgamator.	
4.48	Come with one set of amalgam carrier with tips and one amalgam well.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
4.49	Come with one set of 4 pieces of amalgam condensers, one each of serrated small size, serrated big size, smooth small size & smooth big size.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
4.50	Come with one set of 5 pieces of amalgam carvers, double-ended, made of stainless steel, one size each from small, medium up to large size.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
4.51	Come with one set of 5 pieces of burnishers, double-ended, made of stainless steel, one size each of different type.	
	Bidder shall indicate brand and model/ part number information here and provide catalogue of each piece of item offered here.	
4.52	Come with one air compressor at least 1 horse power or capacity sufficient to supply to the Dental chair specified above, whichever higher. Bidder shall indicate capacity of the unit offered here.	
	Air compressor must be oil less & noise less.	
4.53	Come with one suction unit at least 1 horse power or capacity sufficient to supply to the Dental chair specified above, whichever higher. Bidder shall indicate capacity of the unit offered here.	
<b>5 Accessories, Spare Parts and Consumables</b>		
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
<b>6 Operating Environment</b>		
6.1	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
6.2	Environment:	
	<input type="checkbox"/> Temperature:10-45 degree C	
	<input type="checkbox"/> Relative Humidity: not more than 98%	
6.3	Air supply pressure 0.55-0.80Mpa	
6.4	Water supply pressure 0.20-0.40Mpa	
<b>7 Standards &amp; Safety Requirements</b>		
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
7.3	Electrical safety conforms to standards for electrical safety IEC-60601.	
<b>8 User Training</b>		
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.	
<b>9 Warranty</b>		
9.1	The warranty period for this item shall be 24 months after acceptance of the Goods	
<b>10 Maintenance Service During Warranty Period</b>		
10.1	Preventive and corrective maintenance services during warranty period shall be included.	
<b>11 Installation and Commissioning</b>		
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
<b>12 Documentation</b>		
12.1	User (Operating) manual in English	
12.2	Service (Technical / Maintenance) manual in English	
12.3	List of important spare parts and accessories with their part number and costing.	
12.4	Certificate of calibration and inspection from factory.	