

Annxure - I

1. Equipment Specifications for Dental Chair (Medium)

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1 Description of Function			
SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
1.1	Dental Chair Medium is the entry level dental chair required for dental examination and surgical procedures and is equipped with scaler and Light Cure unit.		
2 Operational Requirements			
SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
2.1	Physiological dental chair operated by electricity, upholstery of good material and soothing color		
3 Technical Specifications			
SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
3.1	Fully adjustable back rest and head rest		
3.2	Electrical, operated water control for basin/bowl which is Ceramic.		
3.3	Body of the chair and unit is painted and non – rust able		
3.4	Sensor Controlled Lights with Halogen bulbs 12v, 55w, and 2 intensity with 4 bulbs spare.		
3.5	Reversible and Autoclavable steel tray connected to articulatory arm. 20 plastic Autoclavable instrument trays		
3.6	High power saliva ejector (2 bottles) with pressure gauge		
3.7	Cart type delivery unit with 4 casters for easy movement complete with three way syringe.		
3.8	Control box with water control – Air motor and hand piec(straight and contra – angle), fiber optic air rotor hand piece. One Turbine connection with handpiece		
3.9	Pneumatic stool		
3.10	Ultrasonic scalar & endo unit with different types of endo tips & Scaler tips - 14 each of endo tip and scaler.		
3.11	Light cure unit (LED) with protective shield and preset timings.		

3.12	Oil Free Air Compressor(Medical Grade) It should have Air moisture filter It should have Non-retraction valve It should have Pressure gage It should have Air tank (capacity of 30-40 Lt.) It should have Auto cut-off switch It should give medical grade Air which is absolutely oil free		
3.13	Mounted Dental X-ray box (OPG film size).-LED Generated		
3.14	Operating Light Specifications: 1.With luminosity of 20000 lux and 25000 lux with 620 degrees of rotation of light arm movements. 2. Should get ON and OFF with No-touch system for maintaining proper sterilization while working. 3. Color temperature of the light should be around 5000 Angstroms. 4. Light should allow Vertical, Horizontal, and Axial & Diagonal Movements for proper Focusing.		

4 System Configuration Accessories, spares and consumables

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
4.1	System as specified		
4.2	All consumables required for installation and standardization of system to be given free of cost.		
4.3	Provision for modular furniture with sink for dental operator 10feet x 10 feet.		

5 Environmental factors

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
5.1	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%		
5.2	The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%		
5.3	Complete installation of the system including water input and drainage system has to be installed		

6 Power Supply

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug		
6.2	Suitable Servo controlled Stabilizer/CVT		

6.3	Resettable overcurrent breaker shall be fitted for protection		
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7 Standards, Safety and Training

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
7.1	Should be FDA , CE,UL or BIS approved product		
7.2	Manufacturer should have ISO certification for quality standards.		
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 (OR EQUIVALENT international/national standard)General requirement for Electrical safety of Medical Equipment.		
7.4	Comprehensive warranty for 5 years and provision of AMC for next 5 years.		

8 Documentation

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
8.1	User/Technical/Maintenance manuals to be supplied in English.		
8.2	Certificate of calibration and inspection.		
8.3	List of important spare parts and accessories with their part number and costing		
8.4	List of Equipments available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual.		
8.5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job descriptin of the hospital technician and company service engineer should be clearly spelt out.		

2. Equipment Specifications for Dental Chair(Basic)

1 Description of Function

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
1.1	Dental Chair Basic is the entry level dental chair required for dental examinatioin and surgical procedures.		

2 Operational Requirements

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
2.1	Physiological dental chair operated by electricity, upholstery of good material and soothing color		
2.2	Should be capable of up gradation to attachment of light cure unit.		

3 Technical Specifications

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
3.1	Fully adjustable back rest and head rest		
3.2	Electrical, operated water control for basin/bowl which is unbreakable		
3.3	Body of the chair and unit is painted and non – rust able		
3.4	Sensor Controlled Lights with Halogen bulbs 12v, 55w, and 2 intensity with 4 bulbs spare.		
3.5	Reversible and Autoclavable steel tray connected to articulatory arm. 20 plastic Autoclavable instrument trays		
3.6	High power saliva ejector (2 bottles) with pressure gauge		
3.7	Cart type delivery unit with 4 casters for easy movement complete with three way syringe.		
3.8	Control box with water control – Air motor and hand piec(straight and contra – angle), fiber optic air rotor hand piece.		
3.9	Pneumatic stool		
3.10	Oil Free Air Compressor(Medical Grade) It should have Air moisture filter It should have Non-retraction valve It should have Pressure gage It should have Air tank (capacity of 30-40 Lt.) It should have Auto cut-off switch It should give medical grade Air which is absolutely oil free		
3.11	Mounted Dental X-ray box (OPG film size).		

4 System Configuration Accessories, spares and consumables

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
4.1	System as specified-		
4.2	All consumables required for installation and		

	standardization of system to be given free of cost.		
4.3	Provision for modular furniture with sink for dental operator 10feet x 10 feet.		

5 Environmental factors

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
5.1	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%		
5.2	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%		
5.3	Complete installation of the system including water input and drainage system has to be installed		

6 Power Supply

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
6.1	Power input to be 220-240VAC, 50Hz		
6.2	Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz)		
6.3	Resettable overcurrent breaker shall be fitted for protection		

7 Standards, Safety and Training

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
7.1	Should be FDA , CE,UL or BIS approved product		
7.2	Manufacturer/Supplier should have ISO certification for quality standards.		
7.3	Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450		
7.4	Comprehensive warranty for 5 years and provision of AMC for next 5 years.		

8 Documentation

SI	Name	Technical Specs quoted by bidder	Bidders Deviation if any
8.1	User/Technical/Maintenance manuals to be supplied in English.		

8.2	Certificate of calibration and inspection.		
8.3	List of Equipments available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual.		
8.4	List of important spare parts and accessories with their part number and costing		
8.5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.		

3. **Autoclave/Sterilizer (electrical)** :- Dome shaped S.S. lid, Ring, Chamber & Outer Cover—conforming to grade IS: 316 which seals the Sterilizer with Neoprene Rubber jointless gasket which shall withstand a temperature of 180 degree C and pressure of 2.6 kg/cm. sqr. The lid is tightened to the body when closed. The working pressure should be 1.1 to 1.2 kg/cm sqr. (15-18 PSI). The thickness of the chamber shall be 16 BG, outer cover 22 BG and lid thickness 6 mm with ring (confirming to AISI / IS 316 grade of SS). This should be equipped with dial pressure gauge 0-30 / 60 PSI, spring loaded safety valve, dead weight type safety valve and steam release valve made of Brass or S.S.

Sterilizer Vertical Portable as per IS 8462 Stainless Steel 300mm x 300-325mm height to be operated by gas /electric . To achieve steam pressure upto 1.25 Kgf/Cm² (15-18 PSI). Complete with spring safety valve, pressure guage. Steam release cock, water release cock

4. Instrument trays
5. Forceps set for extraction
6. Elevators set of 10 (ten)
7. Curette
8. Periosteal elevators, Scissors S.S.
9. Needle holders S.S.
10. BP blade & handle S.S.
11. Artery forceps
12. Tissue forceps
13. Alice forceps
14. Plastic filling instruments
15. Scalpers set
16. Mirror

17. Probe
18. Twizer
19. Kidney Tray
20. Chisel & Mallet (Hammer)
21. Surgical Burs (For straight and Contra hand piece)
22. Water Sterilizer