

Dental chair and unit whipdown delivery system:

1. DENTAL UNIT should be multi programmable.
2. Unit should have Autosteril disinfection system to avoid cross contamination
3. Should have Endo & Implant program with selection of Torque between 0.5 to 70Ncm & RPM 100 to 40,000 of Micromotor with display.
4. Should have One Module for LED High speed Turbine with midwest coupling
5. Should have Chip blower facility to activate both air and water on Air Rotor module by foot control.
6. Should have facility to save 7 programs each for 3 different dentists with Doctors name working on the same unit.
7. Should have facility to stop Suction by pressing foot control on the Chair Base.
8. Should have touch pad on Dentist & Assistant side to control all chair functions.
9. Should have Inbuilt Apex Locator fixed to the Dental Unit.
10. Should have Inbuilt Peristaltic Pump for Irrigation for Implant **Micromotor**
11. Should have Brushless LED Implant Micromotor with torque & RPM as mentioned above for **Surgical, Conservative & Endo work**
12. Should have Brushless LED Regular Micromotor with Torque 3 Ncm & RPM 1000- 40,000
13. Should provide multifunctional LED Optic Ultrasonic Scaler handpiece for prophylaxis, Endodontic & Periodontal procedures. It should be provided with 4 scaling tips.
14. Should have the Bone Surgery Piezon handpiece, directly interchangeable with the Scaler handpiece on the same tubing. It should be provided with 5 tips.
15. Should have **6 Function Syringe with warm water facility** on Dentist console
16. Should have Ceramic/glass motorised spittoon which is **electrically operated for spit position.**

17. Should have 3 way Function Syringe on Assistant Side.
18. Should have Operating LED Light with Variable Intensity up to 50,000 Lux
19. Operating light should have sensor for touch free operation.
20. Should have **pneumatically operated head rest with 3 Axes movement.**
21. Should be provided with Wireless foot control.
22. Should have **touch sensor inside tray handle** to unlock arm locking Pneumatic brakes to adjust tray position
23. Should have Memory upholstery for Ultimate Patient Comfort during long treatment sessions.
24. Should provide Dentist Stool with adjustable thigh support, vertically & horizontally adjustable backrest.
25. Should provide Multimedia Arm to fix the Monitor.
26. Should provide 19 Inch Medical grade LED Monitor.

Dentist Module:

27. Should be Easy to reposition instruments by lightly touching the capacitive sensor inside the handle.
28. Should have soft touch pad to control all chair functions.
29. Should have 5 modules with choice of having high or low speeds turbines on 3 modules, 1x fibre optic scaler & 6 Function syringe.
30. Should be able to feed programs & instruments for conservative, prosthetic, Implantology & Endodontic dentistry from the module screen.
31. Display unit should be easily readable on the TFT colour display unit, by which all the instrument parameters are displayed.
32. Should be able to store memory for 3 different operators. Each operator should be able to quickly choose up to 4 Pre-set positions.
33. Should have 3 operating modes for Micromotor. (Conservative, Endo & Surgery)
34. Should have 2 different micromotors with specifications given above & one high speed turbine module.

35. Electronic Apex locator device should offer maximum efficiency & clinical safety in endodontic treatment.
36. The file position inside the root canal should be shown on the display unit integral with the Dental Unit.
37. When the APEX distance threshold programmed by the operator is reached, a warning tone should come.
38. Should have LED Optic Ultrasonic Scaler (25 To 32 kHz self tuned frequency) for prophylaxis, endodontic & periodontal procedures

Assistant's Module:

39. Should have high & low suction cannulas, **for Motorised Suction** to be provided with roller housings.
40. Should have touch panel to control patient chair movement, cup & bowl filling, operating light & Autosteril hygiene system activation.
41. Should have a light weight, compact high power LED curing Unit with maximum intensity 1800 mW/cm² with 6 pre-set programs.
42. Should have a 3 airway function syringe

Operating Light:

43. Should have LED Lamp with long lasting, 3-axis rotation for perfect illumination.
44. LED lamp should have the intensity up to 50,000 Lux & Colour temperature 5,000 K with sensor adjustment of light intensity.

Dentist Stool:

45. It should have anatomical seat to provide anatomically correct, healthy working position.
46. It should also provide adjustable thigh support, vertically & horizontally adjustable backrest for continuous lumbar support.
47. Supplier should provide warranty of 2 years from the date of installation. After warranty. It should provide AMC for 6years @ free of cost.
48. Demo should be arranged at the supplier workshop site