



Notice Inviting e-Tender

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**Supply and Commissioning of Medical equipment for the District
Early Invention Centre
(Discipline:Dentistry)**

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL / NIT- 469/ 2022

Dated – 28.10.2022

The following amendments have been made in the tender document,

Amendment – III

(From Page No: 41 to Page No: 51)

Technical Specification for DEIC (Department Dental)

1. Mouth Mirror with handle:

- Size : 4
- Type : Plain
- Mouth Mirror with Stainless Steel handle
- Make: Reputed company

2. Cheatle Forceps (12 Inch):

- Material: Stainless Steel
- Item Width: 10 Centimeters
- Product Dimensions: 33 x 10 x 3 cm
- Item Height: 3 cm
- Make: Reputed company

3. Plastic cheek retractor :

- i. Latex free, flexible and comfortable Cheek Retractor (Both sided), provides retraction of lips and cheeks during dental treatments.

- ii. Durable cheek Retractors and long handle makes it easy to use on the patients.
- iii. The smooth surface makes it very comfortable for the patient.
- iv. Autoclavable up to 134 degree celsius, and is of following
- v. Types : C type - Vertical to the open mouth Made of durable clear plastic for increased visibility Double span cheek retractor is designed for hands-free use Available in adult size or child size Opens the oral cavity widely ,without any pain Protects the sensitive gums during teeth whitening treatment.
- vi. Make: Reputed company

4. Dental ultrasonic scaler:

- Performs Multi-function: Scaling, perio, and endo.
- Optical handpiece which is more convenient for clinical operation.
- The handpiece is detachable and can be autoclaved to 135°C and 0.22MPa.
- The handpiece is cast from Titanium alloy to ensure sound mechanical function and durability.
- No of tips:4 (ultrasonics Scaling tip) & 1 (ultrasonic endodontic tip)
- The cable is made from a silica gel tube which is soft and durable.
- The scaling tip is made of special material. The cavitation produced at the end of the scaling tip helps in easy cleaning of the teeth.
- It Eliminates dental calculus, bacterial plaque, and tea stains on the teeth quickly without hurting the gum or the enamel.
- Automatic frequency tracking ensures that the machine always works on the best frequency and performs functions more steadily.
- Digitally controlled, easy operation, and more efficient in scaling.
- Compatible with EMS, you could connect your EMS handpiece with this control box, and you could also connect this Woodpecker UDS handpiece with the EMS control box.
- European CE (4 digit notified Body)/ European CE / FDA / BIS certificate.

5. Set of Forceps for extraction (Adult)

- Made of high-grade Stainless Steel
- Sharp Beaks on Tip - Better Adaptation to the root surface
Cut PDL easily
- Large handles - Better Operator fit
- Knurling on handles has no sharp edges yet crisp for positive grip and control
- Concave Inner Surface to fit the root
- Close Fitting Forcep Blades - spread the load evenly
- Long life
- lightweight
- comfortable grip

- Certification: Item should be BIS Certified
Extraction Forceps Kit Set of 12:

- 1 x Upper Anteriors
- 1 X Upper Premolars
- 1 x Upper Molars Right
- 1 x Upper Molars Left
- 1 x Upper Roots
- 1 x Upper Molars Right (Cowhorn)
- 1 x Upper Molars Left (Cowhorn)
- 1 x Lower Premolars
- 1 x Lower Molars
- 1 x Lower Roots
- 1 x Lower Molars

- **Make: Reputed company**

6. Restorative filling and carving instruments set:

- Ergonomic Design
- Light in Weight
- Easy to Grip
- Less Stress on Fingers
- Material
Made up of Stainless Steel helps in retaining their shape
- Tip Sharp Working ends
- Rust Free
- Corrosion Resistant
- Disinfection
Autoclavable

Conservative Instruments

- 1 x Explorer # Double Ended
- 1 x Spoon Excavator
- 1 x Ball Burnisher
- 1 x PLUGGER Serrated
- 1 x Hatchet
- 1 x Plastic filling instrument
- 1 x Margin trimmer premium
- 1 x Margin trimmer premium
- 1 x Hollenback carver
- 1 x Ward carver
- 1 x Diamond Shape
- 1 x Plastic filling instrument
- 1 x London College
- 1 x Single End Probe
- 1 x Thin Willam

- 1 x Cement Spatula
- 1 x Chisel
- 1 x Hoe
- 1 x Mirror handle
- 1 x Mouth Mirror TOP Plain no.5
- Certification: Item should be BIS Certified / Make: Reputed company

7. Elevators set of 10:

- Type Root Elevator
- Blade Type Curved
- Handle Type Pear shaped
- Number of Dental Elevator –10 (comprises of War-Wick James Right-Left & straight, Coupland: 1,2&3, Cryers: Right & Left, Apexo Elevator : Right & Left)
- Certification Item should be BIS certified / Make: Reputed company

8. Airtor

- Dental Air Rotor Super torque Chuck type handpiece.
- It is noise-free and stable, With best quality cartridge, easier for cleaning.
- Smooth as silk, it has excellent texture, With people-friendly design, easy for operation It is noise-free and stable, With best quality cartridge, easier for cleaning.
- Special for operations such as clamping high-speed dentistry machine needle to drill and grind teeth in department of stomatology, it is more professional.
- Packing-1 air rotor handpiece
- European CE(4 digit notified Body)/ FDA / BIS certificate

9. Contra angle handpiece

- Equipment should be compatible with clinical micro motor and air motor
- Item height : 4.00 cm
- Item width : 6.00 cm
- Item length : 12.00 cm
- European CE(4 digit notified Body)/ FDA / BIS certificate

10. Composite filling instruments Kit

- Durable
- Titanium-Coated Instruments Tips
- Perfect Balance of The Instruments and Reduced Risk of Slipping
- Maximum Resistance to Wear Corrosion
- Easy in Grasp, Gripp and Clean
- 100% Rust Free
- Fully Autoclavable

- Equipment should be 1 x Composite Instrument Gold Titanium-6 Set Of 6.
- European CE(4 digit notified Body)/ FDA certificated / **Make: Reputed company**

11. Dental electric brushless micromotor

- Easy to install
- Smart control system
- Adjustable speed & direction
- Inbuilt LED
- Fit to contra angle & airtor
- Technical data :

Torque	3.5N.cm
Noise level	≤50dB
Power input	DC 24V
Rotation	2,000-40,000 RPM
LED Maximum	≥25,000 LUX

- European CE(4 digit notified Body)/ FDA certificated / **Make: Reputed company**

12. LED curing light source

- Wireless
- Three working modes:- Full, Ramping, Pulse.
- Time setting:- 5s, 10s, 15s, 20s, 25s, 30s, 35s, 40s.
- A full charge can be used for over 400 times. (10s/time)
- Constant light intensity, the solidification effect is not affected by the consumption of remaining power.
- With wire or wireless. It can run directly on commercial power supply if the battery runs out.
- Technical Data:-
- Power input:- AC100V-240V 50Hz/60Hz
- Light Intensity-1000mW/cm² - 1700mW/cm²
- Wavelength- 420nm - 480nm
- Net weight:- 143g
- Dimensions 264mm × 32mm × 37mm
- Power consumption: Less than or equal to 8W
- European CE(4 digit notified Body)/ FDA / **BIS certificate**.

13. Automatic water distiller

COMPOSITION

- External body is composed of high-quality plastic
- Internal body is made of high grade 304 Stainless Steel
- TECHNICAL SPECIFICATIONS

Rating Voltage:	220volts
Power:	750W
Distillation Speed:	1L/hour
Capacity:	4 Ltr.

- Easy and Safe: Single-button start, Fail-safe automatically turns off, Thermostatically controlled to automatically switch off, Triple protection
- BPA-Free: All plastics used are Food-Safe and BPA-Free
- Produces: pure steam distilled water
- Distiller Output: 1 liters/hour
- BIS certified

14. Explorers

- Dental Probe Double Ended
- MADE OF HIGH GRADE OF STAINLESS STEEL
- BIS certified / **Make: Reputed company**

15. Tweezers

- Made of high grade non rusted stainless steel Dental used
- Size - 6 inch
- Item should be Rust Proof & Peel Proof.
- BIS certified / **Make: Reputed company**

16. Mouth props (adult)

- Weight 0.4 kg
- Item dimension : 11 × 11 × 11 cm
- 3 Pieces per pack
- BIS certified / **Make: Reputed company**

17. Mouth props (pedo)

- The comfortable and flexible plastic material which is resistant to high temperature.
- Autoclavable upto 121 degree Celsius
- Available in different colors & sizes
- Easy to use & place in the patients mouth
- Cheek Retractor S: 33 x 28 x 17 mm
- BIS certified / **Make: Reputed company**

18. Cement spatula (plastic)

- A flat smooth fore-end of the spatula is better for mixing the medicine well.
- Made up of good quality plastic material
- Efficient in mixing GIC
- Does not interfere with the composition of the cement.
- Immaculate finish
- Optimum durability.
- BIS certified / **Make: Reputed company**

19. Cement spatula (metal)

- Light weight
- Premium Quality Imported Stainless Steel
- Non-Corrosive
- Autoclavable
- Double ended
- For mixing dental cement
- BIS certified / **Make: Reputed company**

20. Straight Hand piece

- Easy changing cartridge
- High cutting efficiency
- Less vibrations and noise
- Compatible with clinical micromotor and airmotor.
- European CE(4 digit notified Body)/ FDA / **BIS certificate**

21. Dental impression trays (Adult)

- A. Dentulous - Made of Stainless steel perforated upper and lower tray for making impression. Sizes 0, 1, 2, 3 and 4 (set of 5 trays)
 - B. Edentulous - Made of Stainless steel perforated upper and lower tray for making impression. Sizes 0, 1, 2, 3 and 4 (set of 5 trays)
- Total equipment should be BIS certificate / **Make: Reputed company**
 - Equipment should be Autoclavable.

22. Dental impression trays (Pedo)

- **Dentulous - Made of Stainless steel perforated upper and lower tray for making impression. Sizes 0, 1, 2 and 3 (set of 4 trays)**
- Total equipment should be BIS certificate / **Make: Reputed company**
- Equipment should be Autoclavable.

23. Rubber bowl

- Weight: 0.4 kg.
- Material: Silicone Rubber

- Perfect tools specially designed for Dental Lab Work!
- Size: L: (L)X(W)13X9.5cm/5.12 inchX3.74 inch(appr.)
- Equipment should be BIS certificate / **Make: Reputed company**

24. Plaster spatula - straight and curved

- Handle made of plastic / wooden.
- Blade material should be stainless steel
- Unit set of 1 piece straight plaster spatula and 1 piece of curved plaster spatula.
- BIS certificate / **Make: Reputed company**

25. Suction tips (Metal)

- Type : Frazier Suction Tube **with stellite**
- **Diameter Size: 2 mm.**
- Material: Stainless Steel (SS304).
- Equipment should be BIS certificate / **Make: Reputed company.**
- Equipment should be Autoclavable

26. Glass slab

- Mixing slab can be used for hand-mixing most dental materials.
- Slabs are typically made of glass coated with a nonstick surface and backed with a non-skid base.
- Size: 7.5cm x 15cm x 12mm
- Item should be BIS certificate / **Make: Reputed company.**

27. Glass dappen dish

- Color - Transparent.
- Size - 33x33mm
- Reusability - Yes
- Special Features- Thick, heavy base.
- Capacity - 10ml
- Made of solid heat resistant glass.
- Surface - Smooth.
- Item should be BIS certificate / **Make: Reputed company.**

28. Stainless steel drums

- Dressing Drum (**perforated**), domed top and bottom with sliding removable band and drop down-hasps.
- Material : Stainless steel **(SS304)**.
- Size:. 11" (Dia.) X 9" (Height)
- Item should be Autoclavable.
- Item should be BIS certificate / **Make: Reputed company.**

29. Mortar and pestle (Dental)

- Mortar & Pestle made of glass
- Indicated for mixing and grinding
- Item should be BIS certificate / **Make: Reputed company.**

30. UV Chamber Design

- Fine Epoxy powder coated matte finish
- The inner chamber is made with rust proof stainless steel bright mirror finish sheet which reflects the UV rays to pass uniformly through entire work surface area within the cabinet
- 12 plastic autoclavable trays
- Works with UV Light source
- Magnetic gasket on the door seals the chamber
- Micro door switch immediately cuts off the UV source when the door is opened, preventing accidental UV exposure.
- TECHNICAL DATA:

UV Cabinet Size(Complete)	Dimensions
Length	56cm
Breadth	30cm
Height	20cm
UV Chamber Size	
Length	52cm
Breadth	23cm
Height	15cm
Plastic Tray (Autoclavable)	
Length	24cm
Breadth	15cm
Depth	1.5cm

- Item should be BIS certificate / **Make: Reputed company.**

31. Set of Dental surgical instruments with surgical blades

- Ergonomic Design
- Ratched, finger scissors - ring instrument
- Light Weighted - Less Fatigued
- Sharp working ends
- Made of high-grade Stainless steel
- Corrosion Resistant
- Autoclavable at 135 degrees celsius
- BP handle **(Size no. 3)**
- Toothed Dissecating forcep
- McIntosh scissors size- medium
- Needle holder type straight

- Mayo scissor for suture cutting size- medium
- Double ended Bone file
- Bone rongeur tip size-medium
- Double ended curette
- Howarths periosteal elevator
- Kilner's cheek retractor
- Austin's flap retractor
- BP Blade of sizes 10, 11, 12 & 15
- Item should be BIS certificate/ **Make: Reputed company.**

32. Bone cutting burs (set of 6 pieces)

- Material tungsten carbide burs.
- High precision.
- Enable faster and smoother cutting.
- Designed to give high consistency and quality.
- **Bur No. 701, 702, 703, 06, 08 (C1-023, C1-018, C1-014- optional).**
- Item should be BIS certificate/ **Make: Reputed company.**

33. Spirit lamp with ball burnisher

- Having one aperture for wick and another similar aperture for air escape with lid.
- Material made of stainless steel **(SS304).**
- Capacity : around 100 ml.
- **The ball burnisher part is optional.**
- **Make: Reputed company.**

34. Cotton Holder

- Type: Cotton Holder
- Material: Stainless Steel
- Disposable / Reusable: Reusable
- Fully autoclavable
- **Make: Reputed company.**

35. Radio Visio Graphy (RVG)

1. CCD / Super CMOS Technology
2. Sensor size 1 universal comfortable for paediatric
3. Number of pixels minimum 20 lacs/nm (Tube resolution)
4. Pixel size in range of 18.5 X 18.5 micron to 20 X 20 micron
5. Exposure light should be minimum 4 lacs
6. Should be supplied with adequate and compatible computer system with latest operating system (Minimum **8-10** GB RAM should be provided)
7. Certification European CE (4 digit notified body) / US FDA / BIS standard

36. Adjustable special chair with cut out tray and foot rest

- Metal frame Light Weight wooden / metal / plastic body with enamel finish
- Seat Tilt is adjustable up to 10degrees with Hand levers.
- Seat Width 35cm wide Foam Padded Seat for comfort of child.
- Backrest Recline Adjustable Recline upto 25-30degree for comfortable back-support. Useful for the children, who have tendency to bend forward.
- Headrest Foam Padded & Adjustable in Height
- Footrest Detachable & Adjustable in height. Fitted with Feet Stabilizing Straps & Leg support Belt.
- Wheels Chair is mounted on four 05cm dia. Casters wheels with brakes.
- Safety back is fitted with Chest-Straps to support & Hold the child. Finish Metal parts have powder coated finish.
- Provided with multipurpose tray with in-built cut-out.
- Certification European CE (4 digit notified body) / US FDA / BIS standard

37. Pedo Dental chair with integrated dental X-ray & pedo wrap

- High speed hand piece tie (provision) in (2 hole) / (4 hole)
- Low speed hand piece tie (provision) in (2 hole) / (4 hole)
- 3 way syringe 1 set.
- Adjustable Head Rest 1 set.
- X-Ray image viewer-1
- Saliva ejector – 1set.
- Outlet pure transparent water bottle for airotor– 1set.
- Movable control box.
- Double arm rest
- Completely seamless back rest.
- Dental Stool (ergonomically designed) with hand rest – 1pc
- Lower chair frame
- Stain resistant coloured (white) ceramic spittoon.
- Velcro straps.
 - Certification European CE (4 digit notified body) / US FDA / BIS standard / Make: Reputed company.

X-Ray unit

1. X-Ray tube current minimum 7-10 mA and 65 - 70 KV
2. Constant potential minimum 20 KHz frequency.
3. Exposure timer of minimum 0.02 to 2 seconds.
4. Focal spot size should not exceed 0.8 X 0.8 mm
5. Wall Mounted with scissor arm.
6. Compatible for digital Radiography and RVG

7. Swing angulation of at least 290° in vertical and 360° continuous rotating in the horizontal plane.
8. Should work on 200-240 Vac/ 50 Hz
9. Should be AERB type approval and relevant copies of certificate should be present
10. Should have safety certificate from a competent authority.
11. 1 unit servo controlled voltage stabilizer with 3-5 kVA with Spike protector, (±90-220 Volt.)
12. Certification European CE (4 digit notified body) / US FDA / BIS standard / Make: Reputed company.

Specification of Lead Apron

1. AERB Approved.
2. Light weight having minimum thickness 0.5 mm Lead equivalent.
3. Hook and loop type.
4. Apron Type – Skirt (Size - Medium – 38" X 98")
5. Supplied along with Thyroid gland collar.
6. Certification European CE (4 digit notified body) / US FDA / BIS standard

Amendment – IV

(Page No: 6)

5.(a) Time for Supplies & Commissioning of work from the date of issuance of Award of Contract

Item no	ITEM	Time
1	Mouth mirror	
2	Cheatle forceps	
3	Plastic cheek retractor	
4	Dental ultrasonic scaler	
5	Set of Forceps for extraction (Adult)	
6	Restorative filling and carving instruments set	
7	Elevators set of 10	
8	Airotor	
9	Contra angle handpiece	
10	Composite filling instruments Kit	
11	Dental electric brushless micromotor	
12	LED curing light source	
13	Automatic water distiller	
14	Explorers	
15	Tweezers	
16	Mouth props (adult)	

17	Mouth props (pedo)	45 Days
18	Cement spatula (plastic)	
19	Cement spatula (metal)	
20	Straight Hand piece	
21	Dental impression trays (Adult)	
22	Dental impression trays (Pedo)	
23	Rubber bowles	
24	Plaster spatula - straight and curved	
25	Suction tips (Metal)	
26	Glass slab	
27	Glass dappen dish	
28	Stainless steel drums	
29	Mortar and pestle	
30	UV Chamber	
31	Set of surgical instruments with surgical blades	
32	Bone cutting burs set	
33	Spirit lamp with ball burnisher	
34	Cotton Holder	
35	Radio Visio Graphy (RVG)	
36	Adjustable special chair with cut out tray and foot rest	
37	Pedo Dental chair with integrated dental X-ray & pedo wrap	