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No. F-8( ) RMSC/EPM/M-1/17-18/NIB-295/ 2018/ 576

Dated: 7/2/18

**CLARIFICATION/CORRIGENDUM/ADDENDUM**

**Subject: - Revised Bid Schedule of item (01) Dental X-ray Machine (02) Dental Chair with unit and Amended Technical Specifications of Bid document of item, under No. F-8( ) RMSC/EPM/M-1/17-18/NIB-295/ 2017/6085 date: 29.12.17**

In reference to subject cited above and NIB-295, the representations received from the various firms and issues raised by the Bidders, are examined by the competent Authorities and technical committee and approved by purchase committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document Amended Technical Specification of items as below:-

**1. Amended Technical Specifications of Items (01) Dental X-ray Machine (02) Dental Chair with unit as below:-**

**(01) Technical Specification of Dental X-ray Machine (Wall mount)**

DENTAL X-RAY UNIT 70 KV, upto 7 mA or more (A fine step change in kv and ma is required)

70 KV, up to 7 mA or more (AERB approved), with digital timer

High frequency DC range 200khz and above

Dental X-Ray built in automatic arch timer and timer can be adjusted manually, if required Mode for adult, Children & RVG

Specification:-

1) Operating voltage: 220-230 VAC - 50HZ (+/-10%)

2) Exposing time: 2 Sec.(Max)/0.05 or less Sec(Min.)

Features:-

- Digital display provided for Exposure time setting
- Easy exposure time set control by soft touch buttons.
- Automatic power cut off at low/high voltage as a safety measure for X-Ray tube head.
- Microprocessor based controller for setting accurate exposure time.
- X-Ray tube angulation.
- X-Ray tube can be moved to any position convenient to the patient with the help of Arm and Hinge arrangements. The X-Ray tube can also rotated around its axis both vertically (270 degree) and horizontally (360 degree) to help selection of correct angulation.

Technical Data:-

Frequency :50/60Hz

Input current: 220/240V

Tube Voltage:70 KV

Anodic current: up to 7 mA or more

Total filtration: 2 mm Al or more

Focal film dis:20 cms.

Focal spot:0.4 to 0.8 mm

Note: - It is very important; X-Ray should have the European CE/US FDA Mark for the specification model offered.

~~AERB certificate for the specific model is must.~~

- a) The unit should be provided with DAYLIGHT DEVELOPING SYSTEM:
  - b) Manual Day light X-Ray developer: It is a compact developing system with viewing window.
  - c) The total body construction is of non-corrosive fiber glass.
- Supplied with:-

- i) Non corrosive tanks for solutions - 3 Nos.
  - ii) Hanger of 10 clips - 1 No.
  - iii) Loose clips - 5 Nos.
  - iv) There should be guarantee of Three Years.
  - d) CMC shall be given @ 4 % for 5 years after guarantee period with 5 % escalation every year.  
Demonstration of the equipment should be required.
  - e) The Firm shall provide guideline and support to consignee, required to register online official Website eLORA(e-Licensing of Radiation Application).
- Note:- The rate of Dental X-Ray machine stand (floor mount) quoted in BOQ.

**(02) Technical Specification of Dental Chair with unit**

Electrically operated microprocessor based multi programmable Dental Chair with both left and right handed dentistry option. Dental chair and unit should have certification from CE/USFDA and ISO 9001:2008 and ISO 13485:2012

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.  
Perfectly body counteracted chair.

The Right side arm of the chair has lateral rotation for easy access of the patient.

The Chair base should have rubberized cover.

The Seat and head rest should be laminated.

Chair Mount Unit fitted with:-

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.

Stainless steel instrument tray for keeping instruments.

Water adjustment for handpieces should be in coupling.

LED X-Ray viewer. (Emitting white light)

High & Low vacuum motorized 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:-

Airrotor (Kavo/NSK/Sirona/W&H/Bien Air/ Tekne Dental).

Air rotor handpiece clean head with a speed of 3,50,000 RPM

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.

Brushless Micromotor for Clinical Use (Kavo/NSK/Sirona/W&H/Bien Air/Tekne Dental) 1 No.

Micro motor Brushless speed range 2000-40,000 RPM with digital display of speed should be supplied with

Contrangle hand piece autoclavable speed 40,000 RPM (Kavo/NSK/Sirona/W&H/Bien Air/ Tekne Dental) 1 No.

Straight handpiece autoclavable speed 40,000 RPM (Kavo/NSK/Sirona/W&H/Bien Air/ Tekne Dental) 1 No.

3 Way syringe for Air, Water & Spray

2 No. One for Doctor and one for assistant

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

LED Light.

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 be removable for better hygiene.

Light Cure Unit

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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

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 @ 4 % for 5 years after guarantee period with 5 % escalation every year

-Demonstration of the equipment is required.

## 2. Revised bid schedule:-

E-bids are invited as per following revised time schedule:-

Last date & time for sale of bid form	Last date & time of receipt of bid form	Date & time of opening of technical bid
<u>22.02.18</u> 01.00 PM	<u>22.02.18</u> 06.00 PM	<u>23.02.18</u> 03.30 PM

It is also clarified that information of award of contract shall be communicated to all participating bidders on the website [www.rmssc.nic.in](http://www.rmssc.nic.in) and [sppp.raj.nic.in](http://sppp.raj.nic.in). Please note that individual bidder will not be intimated."

**Note:-** Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-V, Schedule of Supply, and Point no. 3) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

This bears the approval of M.D., RMSCL, Jaipur.

Executive Director (EPM)  
RMSCL, Jaipur

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*[Signature]*