

[www.maids.ac.in](http://www.maids.ac.in), [www.madch.ac.in](http://www.madch.ac.in)  
**MAULANA AZAD INSTITUTE OF DENTAL SCIENCES**  
(AN AUTONOMOUS BODY UNDER GOVT. OF NCT OF DELHI)  
MAMC Complex, BSZ MARG, NEW DELHI-110002  
**Purchase Branch**  
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## Notice Inviting e-Tenders (Online Tenders)

e-Tenders are invited for procurement of Non Consumables Items and Pathology Items required in MAIDS under Four Bid System. Detailed Programme alongwith Terms & Conditions is as under:-

**Tender ID:- 2013\_MAIDS\_48295\_1**

### Programme

Sl. No.	Description	Date & Time
1.	Bid Submission Start date & time.	From 04.00 P.M. on 2 <sup>nd</sup> Dec., 2013.
2.	Bid Submission end date & time.	Upto 04.30 P.M on 20 <sup>th</sup> Dec., 2013.
3.	Submission of EMD in Physical Form.	Upto closing date & time of e-Tenders
4.	Opening of Bids date & time Fee/EMD & Pre-qualification	On 21 <sup>st</sup> Dec., 2013 at 10:00 A.M.
5.	Opening of Technical Bids date & time.	On 21 <sup>st</sup> Dec., 2013 at 10:30 A.M
6.	Opening of Online Price Bids date & time.	To be intimated later.
7.	EMD Amount	Rs.50,000/-

*EMDs of Es.50,000/- in the name of Director-Principal MAIDS in the form of F.D.R. / Bank Guaranty valid upto 31<sup>st</sup> Dec. 2014 shall be submitted up to closing date and time. Scanned copy of if shall also be uploaded.*

*The Tenders shall remain Valid for 180 days from the date of opening.*

*The Rate Contracts with the successful Bidders shall remain valid upto 30th Sept. 2015.*

**Scanned copy of each and every document including EMD shall be uploaded without fail.**

IN CASE ANY CLARIFICATIONS PERTAINING TO THESE E-TENDERS ARE REQUIRED, PLEASE CONTACT THE PURCHASE BRANCH OF MAIDS, ROOM NO.08, BETWEEN 02.00 P.M. TO 04.00 P.M. ON ANY WORKING DAY PERSONALLY (EXCEPT SATURDAY) OR ON PHONE NO. 011-23233884 EXTN. 1053 OR MOBILE NO.9654700986.

**Four Bid Tender Systems is to be followed as under:-**

**A. Fees/EMD:-**

- a) Scanned copy of the EMD shall be uploaded.
- b) The EMD should be submitted in the form of Bank Guarantee/F.D.R. in the name of Director-Principal, MAIDS and EMD valid upto 31<sup>st</sup> Dec.,2014.
- c) Should be submitted upto Bid Submission Last Date and Time.

**B. Pre-Qualification Bid:-**

Scanned Copies of following essential documents shall be uploaded:-

- a. Scanned copy of PAN Card of the Firm/Individual participating in Tenders.
- b. Particulars/Information pertaining to the Tenderer shall be submitted in **Annexure-I** with ECS details.
- c. An Undertaking on "Non-Judicial" Stamp Paper of Rs.50/- duly attested by Notary Public on Prescribed Proforma in **Annexure-II**.

- d. An Affidavit on “Non-Judicial” Stamp Paper of Rs.50/-on Prescribed Proforma for Criminal Liability in **Annexure-III**.
- e. Copy of VAT Registration with Govt. of Delhi.

*In absence of any of these documents, the Tenders will be rejected outright.*

Serial Numbers of submitted documents should be in sequence as mentioned above.

***Physical copies the these documents may also be submitted in the Purchase Branch, Room No. 08, MAIDS Building upto the closing date & time of submission of Tenders alongwith the E.M.D.***

*TECHNICAL BIDS OF ONLY THOSE TENDERERS SHALL BE OPENED WHOSE ABOVE DOCUMENTS ARE FOUND TO BE IN ORDER.*

### **C. Technical Bid:**

Technical details of the various equipments / items shall be submitted in **Annexure-IV** Format.

Samples/Catalogue/Technical literature / Drawings / Leaflets or Catalogue books will be accepted in the MAIDS till closing date and time of receipt of the Tenders in the Non-Consumable Store by the Store Keeper.

- i) Samples, literature / Catalogue should be labeled and should be of the same items as quoted in Tender.
- ii) The Tenders will be decided on the basis of best quality of items quoted as per Tender Specifications.
- iii) Demonstration of the quoted equipments shall be made at our premises as & when asked for by MAIDS Authorities.
- iv) The Samples of Non-Consumable Items should be submitted / deposited in the Non-Consumable Stores alongwith check list. **They should be numbered properly & placed in Serial Order.**

### **D. Price Bid:-**

**Price Bids are to be submitted in Annexure-V online only. For items costing below Rs.3.00 Lac, the bidders should not fill column no. 7 to 11.**

**For items costing Rs.3.00 lac and above, all columns of Annexure –V shall be filled.**

*Price Bids of only those Tenders and only those items shall be opened which meet our technical specifications in Technical Bid Evaluation.*

If the Bids/Rates quoted by the Tenderer are accepted by MAIDS, the same shall remain valid upto **30th Sept. 2015**.The Tenderers shall be bound to supply the ordered goods on these rates whenever ordered by the MAIDS.

**Prices shall be quoted for per unit with accessories / per piece as indicated in the list attached as indicated.**

### **General Terms & Conditions:-**

1. **Prices are to be quoted in Indian Rupees only.**
2. The Quotations shall be filed online only in prescribed format given in e-procurement System. ***Physical Copy of the Tender Documents with each page signed and stamped by the Tenderer may be deposited in Purchase Branch as acceptance of Terms & Conditions.***
3. The supplies of the stores/articles will be for Maulana Azad Institute of Dental Sciences, MAMC Complex, Bahadur Shah Zafar Marg, New Delhi-110002. *The rates should be quoted for F.O.R. destination.*
4. **The validity of the quotation will be upto 30th Sept. 2015.** The Tenderer is bound to supply the stores during the validity of quotation at the approved rates.

5. Only those items should be quoted which can be supplied by the firm within the period stipulated in the supply orders which normally is **42 days** from date of issue of Purchase Order for all Items. **For imported items, time is 42 days for readily available items and 90 days if the goods are imported specially for MAIDS after issue of Purchase Order.** *The Tenderer has to give the proof that items are imported after receipt of our Purchase Order.*
6. Penalty of 1% of the value of Order per week or part for delayed supply shall be deducted subject to a maximum of 10% of the total value of the Order from the bill raised by the Supplier or from the Security Money deposited.

In case of defective supply, the same shall have to be replaced by the Firm within one week from the date of intimation failing which the Security Money/EMD Money deposited by the Firm shall be forfeited and action may be taken against it as per Rules.

***Payment shall be made on receipt of full quantities of the ordered Goods. No payment shall be made for Part Supply.***

7. The specifications of items quoted by the Firm should conform to the specifications quoted in Tender document. Wherever the Tenderer feels that these specifications are not fully detailed or differ otherwise, the exact specifications of every item offered/quoted should be given. **Literature / Samples / Catalogue / Leaflets for illustration purpose should be sent indicating the item quoted.**

**Tenders submitted without Samples / Leaflets / Catalogue / Literature may not be considered.**

**The offered rates of the quoted items may not be considered for approval even if they are lowest, if samples / Literature are not submitted.**

**Literature / Catalogue Sample may be deposited with the Store Keepers till closing date & time of the receipt of Tenders.**

8. For Equipment Machines/Instruments, the full Guarantee/Warranty period shall be as follow:-
 

i)	For items costing upto Rs. 1.00 lac	-	One year	}	<b>From the date of installation of equipments/ machinery</b>
ii)	For items costing upto Rs. 1.00-2.00 lac	-	Two year		
iii)	For items costing Rs.2.00 or more but below Rs.3.00 lac	-	Three year		
iv)	<b>For items costing Rs.3.00 Lac or more</b>	-	<b>Three years</b>		<b>+ five year CMC on percentage cost basis.</b>
9. **For the items/equipments/machines costing Rs. Three Laks or more each, the complete warranty shall be for three years. Thereafter, there shall be five years Comprehensive Maintenance Contract with spare parts and Maintenance Services on payment basis. These CMC Rates for five year period shall be indicated on percentage cost basis in the Price Bid Format Annexure-V in coloumns no 7 to 11 for items costing Rs.3.00 Laks and more and shall include all consumables including batteries etc.**
10. If maintenance / repair is required, same shall be attended to/done within 48 hours of lodging complaints within warranty period. ***The Tenderer shall state the arrangements for repair of equipments under Guaranty/Warranty period in case of non-functioning of the same.***

***The After Sales Service shall be provided by the Tenderers who shall ask the Manufacturers to repair/remove the defects in the equipments supplied by them. This Service has to be provided within 48 hours of complaint through telephone, e-mail or by Post either by the Tenderer or the Manufacturer.***

***If the Equipments / Machinery are not repaired within 48 hours of lodging the complaint, penalty shall be imposed @ 0.25% of the cost of equipment subject to minimum Rs.500/- per day from the Security Deposit and maximum of 5% of the volume of equipment.***

*If the equipment is not repaired even within ten days time after lodging of complaint, the security money may be forfeited besides taking other actions against the supplier / manufacture.*

11. A) Before executions of Supply Order, the Tenderer shall have to deposit Security Money in the shape of Bank Guarantee/FDR in favor of Director-Principal, Maulana Azad Institute of Dental Sciences, New Delhi .**The Security money will be 10% of the supply order value covering entire period of warranty plus 60 days.**  
B) for equipments under CMC from 4<sup>th</sup> years onward, 10% value of CMC shall have to be deposited by the Tenderer for a period covering entire period of C.M.C.
12. The decision of Technical Committee / Price Evaluation Committee constituted by the Institute regarding approval of rates and samples of different categories of items will be final and binding.
13. The rates should be quoted showing the **prices only. Taxes shall be shown separately.** The Unit for which price is quoted shall be clearly defined whether a single unit or a Box containing multiple quantities of the item.
14. **The Tenderer will quote firm rates. No variation shall be allowed during the validity of rates.**
15. **After the opening of Tenders there will be no correspondence between the firm and Institute till the tenders are finalized.**
16. A).Letter of Authorized Dealership may be submitted (In case of imported equipments as well as Indian goods).  
B). In case the Tenderer is Sole Distributor or Selling Agent of a particular item, he should submit an Authority letter in support of the same from the actual manufacturer concerned.
17. The rates quoted should be certified as the lowest quoted for any Govt. or private Hospital/College in India. If the price of any item is reduced due to any reasons during the validity of tender, the Tenderer will intimate the Maulana Azad Institute of Dental Sciences of reduced rates immediately and will charge reduced rates instead of rates quoted / agreed.
18. *Payment shall be made on receipt of complete supply of ordered goods. No part payment shall be made.*
19. **Risk Purchase:** If the successful Bidder fails to supply the ordered goods and dishonors the Rate Contract, MAIDS may procure the stores on Risk Purchase Basis and Performance Security of the Contractor shall be forfeited besides taking other actions as deemed fit.
20. **Bills/Invoices for supplied items shall be from Delhi Address only.** No Bill/Invoice generated from Outside Delhi shall be entertained as per Govt. Of Delhi order.
21. a) The Disputes, if any, shall be referred to the Arbitrator to be appointed by the Secretary (Health), Govt. of Delhi.  
b) In case of any dispute, the Jurisdiction of Delhi Courts only shall be applicable.
22. **THE DIRECTOR-PRINCIPAL. MAULANA AZAD INSTITUTE OF DENTAL SCIENCES, NEW DELHI HAS THE FULL AND EXCLUSIVE RIGHT TO ACCEPT OR REJECT ANY OR ALL THE TENDERS AND ALSO TO CANCEL THE SUPPLY ORDER AT ANY TIME WITHOUT ASSIGNING ANY REASON.**

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**Information shall be provided by the Tenderers alongwith the Tenders as follows:-**

1. Name of the Proprietor / Authorized Signatory :
2. Name of the Participating Firm / Company :
3. Postal Address :
4. Email address :
5. Telephone nos. :
6. FAX no. :
7. Mobile no of Authorized Signatory :
8. PAN number of the Firm / authorized signatory :
9. VAT Registration number :
10. Bank Account details for ECS payment
  - a) **Beneficiary Name** :
  - b) **Bank name & Branch Address** :
  - c) **Account number** :
  - d) **IFSC** :

**UNDER TAKING (To be executed on Rs.50/-Non-Judicial Stamp Paper)**

To,

The Director-Principal,  
Maulana Azad Institute of Dental Sciences,  
New Delhi-110 002

Sir,

1. The Undersigned certify that I/we have gone through the terms and conditions mentioned in the Tender Form and undertake to comply with them. **I have no objection to any of the condition of the tender document. I undertake not to submit any complaint/representation against the tender document after expiry of submission date and time of the tender.** The rates quoted by me/us are valid and binding on me/us for acceptance for supply of quoted items on receipt of Purchase Order upto the period ending **30<sup>th</sup> Sept., 2015**.
2. I/We undersigned hereby bind myself /ourselves to Director-Principal, MAIDS to supply the various items for Maulana Azad Institute of Dental Sciences, New Delhi, or on behalf of the President of India during the period under Contract as per rates quoted by us and negotiated / finalised by the MAIDS.
3. I/We Supply the items which are of the best quality and kind as per the requirement of the Institution. The decision of the Director-Principal, Maulana Azad Institute of Dental Sciences, New Delhi as regard to the quality and kind of article shall be final and binding on me/us.
4. Bid Security in the form of FDR/Bank Guarantee in the name of the Director-Principal, New Delhi has been deposited in Purchase Branch of MAIDS and shall remain in the custody of the Director-Principal upto its validity period if Tender is accepted.
5. I/We shall forfeit to the Director-Principal, MAIDS the Security money in case of any delay occurs on my part or I or my agent fails to supply the articles of the desired specifications within the specified period of supply of goods.
6. In case of the purchase of the articles approved in my favour for the supply are purchased from any other source due to delay or non-supply, the extra amount paid may be deducted from the Security submitted by me.
7. Should the Director-Principal deem it necessary to change any article on being found of inferior quality or defective, it shall be replaced by me free of cost in time to prevent inconvenience.
8. The conditions contained herein shall form part of the Agreement.
9. If I/We fail to supply the stores in stipulated period, the MAIDS has full powers to compound or forfeit the Security Money and make Risk Purchase from Open Market.
10. I/We declare that no legal/financial irregularities/cases are pending against the proprietor/partner of the tendering firm or manufacturer.
11. I/We undertake that the rates quoted by us when approved and selected by the Director-Principal, Maulana Azad Institute of Dental Sciences, New Delhi-2 will be valid for the asked period. I undertake to supply the equipment/stores within 42 days for Indian make as well as items. However, 90 days time for imported items shall be allowed from the date of issue of Purchase Order ***if imported after the receipt of your Purchase Order. Proof that items have been imported after receipt of your Purchase Order shall be given.*** I undertake to supply the ordered goods

within stipulated period and if I fail to supply ordered goods during the stipulated period, the necessary action can be taken by the Director-Principal, Maulana Azad Institute of Dental Sciences, New Delhi as per Terms & Conditions of Tender Document.

12. I/We undertake that if the rates of any items are lowered due to any reason, I will charge the lower rates.
13. I/We undertake that the items supplied shall be as per sample/catalogue/technical literature description approved by the MAIDS.
14. I/We undertake that the quoted rates are the same on lower as with the other Govt. Institutions in Delhi as well as in India.

**Affirmation**

I/we pledge and solemnly affirm that the information submitted in tender documents are true to the best of my/our knowledge and belief. I/we further pledge and solemnly affirm that nothing has been concealed by me/us and if anything comes to the notice of purchaser during the validity of tender period, Director-Principal Maulana Azad Institute of Dental Sciences will have full authority as he deems fit, which may amount to rejection of tender without assigning any reason and forfeiting the Bid Money.

**Signature**

**(Name of Tenderer)**

**Seal of the Firm.....**  
**Mobile No.....**  
**PAN No.....**  
**e-mail .....**

**Place.....**

**Date.....**

**AFFIDAVIT ON CRIMINAL LIABILITY**

**CRIMINAL LIABILITY UNDERTAKING ON RS. 50/- Non Judicial Stamp Paper**

I .....S/o Sh .....  
Resident of (Address).....  
do solemnly pledge and affirm :-

1. That I am the proprietor/Partner/Director of the M/s.....  
.....
2. That no case of any nature i.e. CBI, Criminal/Income Tax/ Sales Tax/ Blacklisting is pending against the firm at the time of submission of Tender.

**Signature of the Tenderer/Manufacturer  
Rubber Stamp of Tenderer**

**Name.....  
Mobile No.....  
PAN No.....  
e-mail .....**



## List of Dental Non-Consumable and Pathology Items of the year 2013 - 2014

Sl. No.	Name of Items	Per unit/ Pack / pcs/ price as indicated	Approximate Qty. Reqd. for 1 year
1	ABFO No. 2 Scale Spefication:- Shape - Rigid, L-shaped, 1mm thik laminated plastic scale size - 105 mm x 105 mm (4" x 4") mm Marking accurate to 0.1m	per pc	4
2	Acrylizer (i) Capacity- 6-9 flasks. ii) Complete stainless steel body of good quality. iii) Preset programme. iv) Equipped with a process to change the programme. v) Warning buzzer at completion of the programme. vi) Programmed –if power fails data should be stored and continue the programme when power returns. vii) Duration of each controlled temperature increase gradient in hours and minutes From 0.00 to 99 (approx.) viii) C.E Certification.	per unit	2
3	Acrylizer i) Capacity- 15-20 flasks. ii) Complete stainless steel body of good quality. iii) Preset programme. iv) Equipped with a process to change the programme. v) Warning buzzer at completion of the programme. vi) Programmed –if power fails data should be stored and continue the programme when power returns. vii) Duration of each controlled temperature increase gradient in hours and minutes from 0.00 to 99 (approx.) viii) C.E Certification.	per unit	1
4	Adhesive Removing Plier	per pc	2
5	Adsons tissue forceps (Non Toothed) 15cm/6 inches 1.1 should have tungsten carbide inserts gold plated spring end for identification of tungsten carbide inserts.	per pc	13
6	Adsons tissue forceps (Toothhed) 15cm/6 inches 1.1 should have tungsten carbide inserts gold plated spring end for identification of tungsten carbide inserts.	per pc	15
7	Agate Spatula	per pc	15
8	Air rotor Hand piece Push button with speed range:3,00,000 – 4,50,000rpm with , 135 degree . Autoclavable and compatible to Gnatus/anthos/adec Dental Chair. Regular head .	per unit	15
9	Allis Forceps	per pc	15
10	Amalgam CondensorStainless Steel, Passivatedfor rust prevention and Ultrasonic Cleanable	per pc	32
11	Anesthesia Machine (Specification Attatched in NIT Document)	per unit	1
12	Apexo elevator Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable (set of right & left)	per pc	7
13	Arizona State University (ASU) Dental Anthropology System Specification: Series of plaster refereance casts, sample data scoring sheet and methodology	per set	1
14	Arrow clasp forming Plier	per pc	2
15	Arrow drivers 6.35 mm head (compatible with alpha bio)	per pc	1
16	Artery forceps Curved Fine small	per pc	22
17	Artery Forceps Curved Large	per pc	10
18	Artery Forceps Curved Medium	per pc	5
19	Artery Forceps Straight Fine small	per pc	16
20	Articulating paper forceps,Stainless Steel, autoclavable Miller type (Henry Schein/similar)	per pc	11
21	Austin Retractor	per pc	10

22	Autoclave Class B Front loading 22-25 Ltrs. (One-way water system. Automatic water feed. Fractionated Pre- and Post- Vacuum Autoclaves. Integrated water storage tank and air cooling system. High performance membrane pump technology. Low maintenance water ring pumps. Must have waste water and fresh water storage tanks and quick release coupling. Should have 5 sterilization program and test programs Measuring of the water quality integrated in the autoclave. Should comply to highest safety standards. European CE/ american FDA certification.)	per unit	8
23	Automatic (X ray) Processor (Voltage 230 V, Frequency 50 Hz, Total Output 400W, current 1.8A, Duty rating 100%, Process time 5 minutes, Bath temperature 24 degree C, Weight 11,5 Kg, Size (HxWxD) 40x63x25 cm)	per unit	1
24	Automatic (X ray) Processor (Voltage 230 V, Frequency 50 Hz, Total Output 400W, current 1.8A, Duty rating 100%, Process time 5 minutes, Bath temperature 24 degree C, Weight 11,5 Kg, Size (HxWxD) 40x63x25 cm) With Daylight hood, bath heater, front flap, waste receptacle & film collector	per unit	1
25	Autopsy saw-• Based on high speed oscillation • Hard piece to have firm grip area • Provision of safety handling • Acceptance for variety of autopsy blades • Complete with large section blade plus 2-6 arbors.	per unit	1
26	B.P Handle No.3 (For blade 9-17, 40 and 42) 14.5 cm Round serrated handle for secure grip. Should enable easy rotation in difficult positions. Should be useful for all kinds of surgical procedures. High Grade German Stainless steel CE Certification	per pc	63
27	B.P. Apparatus (Sphygmomanometer) digital. (without mercury)	per pc	4
28	B.P. Handle Round No.-4	per pc	4
29	Ball and Socket plier (No. 112) Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per set	2 set
30	Ball burnisher Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per pc	34
31	Band forming pliers (left)	per pc	2
32	Band forming pliers (right)	per pc	2
33	Band Pinching Plier Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable (Bird Beak)	per set	2 set
34	Band pusher (Leone/Similar)	per pc	4
35	Band Removing pliers Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per set	2 set
36	Bayonet forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per pc	20
37	Bench Press-Heavy Duty	per pc	1
38	Biopsy punches (for soft tissue) Assorted size (5mm, 3mm) Disposable	per pc	15
39	Biopsy punches (for soft tissue) Assorted size (5mm, 3mm) Metal	per pc	16
40	Black anodized malleable retractor set of three retractors sizes 10/12 mm, 15/17mm/, 20/22 mm, should be double ended with slightly different widths at either end of the blades Malleable and thin, thus preventing the brain or eyeball from receiving excessive pressure should be black anodized to prevent glare, particularly when working with a headlight	per set	1 each (3 pc)

	should have CE certification.		
41	Block storage cabinet • Block storage Cabinet • Capacity to store at least 10000 blocks. -Blocks stored in rows with slots for easy and quick storage & removable of blocks.	per unit	1
42	Bonding Tweezer a) Straight b) Curred	per pc	3 3
43	Bone Expander kit (Mr. Curette or Similar)	per kit	1
44	Bone Harvestin Kit (Alpha bio or similar)	per kit	1
45	Bone Holder/CLAMP	per pc	1
46	Bone Nibbler end cutting - curved	per pc	5
47	Bone Nibbler end cutting - straight	per pc	7
48	Bone Saw Machine (Heavy body, ANODISED and polished MOTOR: 1.5 HP, POWER: 1.1 KW 1400 RPM Blade Length 1840 mm DIA: 530X420X910 mm)	per unit	8
49	Bone Scraper	per pc	1
50	Bone Screw Kit (Stryker or similar)	per kit	1
51	Bone Screws (Titanium & stainless sheet both) 1.5*8mm 1.5*10mm 1.5*12mm 2.0*8mm 2.0*10mm 2.0*12mm	per pc	10 each
52	Bone Spreaders (Compatible with Alpha bio)	per pc	1
53	Bone Well with Lid (Small), (Mr. Curettr or similar)	per pc	1
54	Bracket height MBT Gauges (022 slot) (Autoclavable ) (Leone/GAC/Similar)	per pc	2
55	Bracket positioning device for lingual orthodontics	per pc	1
56	Brass clamp for 1 flask	per pc	5
57	Brass clamp for 2 flasks	per pc	5
58	Brass clamp-flask for maxillofacial prosthetic work	per set	2
59	Cartridge dispenser 3M	per unit	2
60	Cartridge syringes with three aspiratign hooks and automatic aspiration, 1.8 ml, 1/2, with ringh handle	per pc	12
61	Casting Ring with crucible formerwith diameter 3cm, 6cm,	per unit	2 each (4 Pc)
62	Cats Paw retractor 3 hook small	per pc	3
63	Cement Spatula Stainless Steel, Passivated Short blade for rust prevention, Ultrasonic Cleanable and Sterilizable-Imported	per pc	2
64	Cement spatulaStainless steel long blade	per pc	13
65	Centrifuge machine Remi / similar make revolutionary General purpose Laboratory centrifuge model R-8C	per unit	1
66	Cheek retractors (transparent)	per pc	4 small 4 adult
67	Chisel (hufriedy)/similar 3mm 5mm 8mm	per pc	5 10 5
68	Class II, type A2 Biological safety cabinet & Attached in NIT Document)) (Specification	per unit	1
69	Clear Aligner package:(Scheu Dental) which includes CA Smart	per unit	1

	Software Version 3, CA Photo Support, CA Checker, Plier - Spherical plier tip, Plier - Small Spherical plier tip, Blue Blokker LC Resin 4 x 1.5g, CA Grinding Set, Adhesive Plastic Buttons, SET-UP wax sticks, SET-UP wax blocks, 3 pcs, Set Up Saw, CA Foil Soft, CA Foil Medium, CA Foil Hard, CA Retention 1.0, Isofolan Foil, Vector 40, Dimo Pro Slim, Sill-Kitt		
70	Composite filling instruments- set of 6 autoclavable, anodised, non stick instruments	per set	11
71	Computerized occlusal analysis system-T Scan-III (specifications attached)	per unit	1
72	Condensor round shape Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per pc	20
73	Cortical Drills (leader or similer)	per pc	6
74	Cotton holder	per pc	11
75	Cotton roll dispenser with pull out drawer for easy dispensing	per pc	29
76	Cowhorn forceps mandibular molars Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per pc	1
77	Crimping Plier Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per set	2 sets
78	Crown Holding Forceps	per pc	3
79	Crown Puller- Spring loaded	per pc	3
80	Crown removal / separation kit	per kit	2
81	Cryer L/R (1 set - 2 Nos.)	per set	5
82	Cryosurgery Unit. (Specification Attached in NIT Document)	per unit	1
83	Curette curved Double Ended Large	per pc	24
84	Curette curved Double Ended Small	per pc	5
85	Curved saggital split separators Right and left side, 18 cm, should allow controlled splitting of the mandibular inferior border through the limited access of the envelope incision. Should assist in application of precide force necessary to separate the mandibular segments in a controlled fashion. High German Stainless Steel, CE certification.	per pair	1 pair
86	Curved Surgical dissecting scissors	per pc	14
87	Curved Suture Cutting scissors	per pc	32
88	Curved toothed tissue forceps	per pc	2
89	Cutaway Stand Magnifier Specification:- Magnification - 6 X, Field of view - 22 mm, Working Distance - 25mm	per unit	2
90	Deep freezer -20 degree: (Specification Attached in NIT Document))	per unit	1
91	Denhart Mouth Gag 12.5 cm, Mouth gag, Jaws with sillicon insets, High grade German Stainless Steel , CE Certification	per unit	1
92	Dental Chair side Mobile Cabinet (Countertop exteriors – scratch proof, heat resistant, easy to clean; with drawers for instruments and storage, white coloured on the interior surface.)	per pc	6
93	Devers abdominal retractor, Martestic quenched magnetic steel. Dimensions: 22 X 215 mm, 25 X 230 mm, 38 X 300 mm, 50 X 300 mm, 75 X 300 mm.	per set	1 set of 5 pc
94	Die cutting saw with assorted blades	per set	3
95	Digital Still Photography Camera Specification:- Screen Size - above 3 inches, Display - LCD, Image Stabilization - Digital, Display Resolution Maximum-1080p Full HD, Optical Zoom - min 5x, Optical Sensor Speed Resolution - 16 megapixels or above Max shutter Speed - 30 Seceonds, Min Focal Length	per unit	1

	18 Millimeters, Video Capture Resolution - 1920 x 1080, Battery Cell Composition - Lithium Ion, Continuous Shooting speed - 4.00, connector Type -USB, Flash Description - Auto. Digital Lens min 12.35mm, f/1.8 range. Ring Flash Adapter; Outer Diameter - 175mm, Inner Diameter - 103 mm, Centre of ring flash to Centre Flash Unit - 160mm		
96	Digital Vernier Caliper	per pc	4
97	Diode Laser 0.1-7 watts touch screen, continuous or pulse mode, weight 1 kg - 1.5 kg, voltage compatible to Indian standards, 110 -240V Accessories (1 Standard Hand piece, Multi-up hand piece with 1 pack of tips & 1 Quadra tip, 3 pairs of goggles)	per unit	3 unit
98	Direct bond bracket removing plier with pad (Dentaurum /GAC/Similar)	per pc	4
99	Dontrix Gauge (Dentaurum/Leone/Similar)	per pc	4
100	Drill for arrow implant (Compatible with Alpha bio) 1.2 mm 1.4 mm	per pc	2 2
101	Ear piece type Facebow Earpiece-type facebow, used to capture and record the patient's maxillary arch and its relationship to the external auditory meatus. • Auto-centering. • Sterilizable. • Detachable transfer clamp assembly. • Accessory indexes. • Built-in reference pointer. • Standard equipment should include:- • Spring-Bow, • Transfer Clamp Assembly, • Anterior Elevating Assembly, • Mounting Platform with built-in Cast Support and Bitefork	per unit	3
102	Electric Pulp tester-(Specification Attached in NIT Document)	per pc	3
103	Electrocautery - high frequency electrode with long fire and short fire working mode)	per unit	1
104	Electrophoresis (Horizontal)	per unit	1
105	Enamel Tray	per pc	4 6
106	Endobox (endo organizer / flex kit) - Dentsply	per unit	15
107	Endodontic locking tweezers - dentsply / Similar	per pc	10
108	Endodontic motor - (Endodontic Toeque Control Meter) (Auto reverse mode / auto step, Torque control speed, X-smart /dentsply/ Similar)	per unit	2
109	Endodontic Prob Es DG-16 / Similar	per pc	5
110	ESR stands for wintrobes method	per pc	10
111	Explorers	per pc	
112	External Motorized Suction (Noiseless)	per unit	1
113	Filling hand instrument set of - 6	per set	5
114	Flask ejector (kavo/similar)	per pc	4
115	Flask with Clamp	per set	27
116	Flask with ejector	per set	2
117	Flasks for duplicating (aluminium flask with rubber cover)- large size 10X83X53)	per pc	1
118	Flasks for duplicating (aluminium flask)- large size 10X83X53)	per pc	1
119	Flexible Arm Illuminated Magnifier with Base Specification:- Magnification - 2 X (3.5x), field of view - 230-250 mm, working Distance - 250mm	per unit	1
120	Forceps, toothed tissue holder (Tweezer type)with auto locking	per pc	15 Pcs
121	Formalin Chamber	per unit	4pcs
122	Gel documentation system (Specification Attached in NIT Document)	per unit	1
123	Giertz rib shear. Material: martensitic steel, quenched, magntic steel. Length 25 cms, confirming to ISO standards	per unit	1 each
124	Glass Bead Sterilizer- Large Size for Hand Instruments Cabinet Size L × W × H 150 × 155 × 225 mm Crucible (Brass) size 50 mm dia. × 137.5 mm Depth Preset Temperature Range 245°C - 265°C Initial Stabilization Time 30 Minutes	per unit	4

125	Glass Bead Sterilizer- Small Cabinet Size L × W × H 185 × 125 × 135mm Crucible (Brass) size 50 mm dia. x 50 mm. Depth Preset Temperature Range 230°C- 250°C Initial Stabilization Time 30 Minutes	per unit	2
126	Hanau alcohol torch (non-plastic)	per pc	7 pcs
127	Hand Piece-cleaning System - Easy to use - cleaning & lubrication. Easy replenishment of solution tank. Disposable mist filtration system. Filtered air use. Compatible to different brands of Handpieces. 2 packs of Lubricating / cleaning liquid for handpiece cleaning system (Compatible with system)	per unit	4 pcs
128	Hayton-williams disimpation forceps, 25 cm, High German Stainless Steel, CE Cerification	per pc	2 pcs
129	Head Strap Led Light with Batteries: Specification : Light Bulb Type : LED Material: Plastic Includes: Head Strap Battery: Powered - 3 AAA or as per the Model requirement	per unit	2 pcs
130	Heat Resistant (upto 200°C) Fiber Glass Plier (Crown Master) (Kohlar or similar)	per pc	2
131	Heister modified mouth gag 13.5 cm Mouth gag Jaws with Teflon inserts High grade German Stainless steel CE certification	per unit	5 Pcs
132	Hex Driver 4mm head (Compatible with Alpha bio)	per pc	2
133	High mejouring unit	per unit	1
134	HOT AIR OVEN DRYING OVEN Stainless steel Inner chamber Cold rolling steel electrostatic spraying exterior Intelligent temperature controller with PID program Low noise fan Forced air circulation for uniformity of temperature Digital timer and over temperature protection Door with double layer tempered glass for observation. Door with silicon rubber seal ensures good sealability To dry Glass ware, Evaporate chemicals, Carryout chemical Reactions at elevated temperature Dimension-.inner SS, outer MS- 350x350x350; 450x 450x450; 650x 650x650 Load per rack 2 / 15 kg per rack Power supply 220V / 50Hz	per unit	1
135	Howarth Periosteal elevator	per pc	15 pcs
136	Human Skull Specimens: Plastic (Child Skulls)Features: Total separated in parts, Material: Advanced PVC, Size: 12cm*8.5*14cm	per unit	1
137	Human Skull Specimens: Plastic Scientific Plastic Human Adult Skull Models Three – part dissembling adult human skull model for easy display of cranial features. Original human skull cast for accurate representation of fissures, foramina, processes, and sutures. Spring-mounted mandible for demonstrating natural movement. Measures 20 x 13.5 x 15.5 cm / 7.9 x 5.3 x 6.1 inches (H x W x D)	per unit	2
138	Ice Instrument –Polar Bear XLT 3m /Similar	per unit	2
139	Implant insertion tool (compatible with alphabio) Long	per pc	1

	Short		1
140	Implant Surgical kit with torque Ratchet (Alphabio/Similar)	per kit	2 kits
141	Implantlogy Caliper (15cm) (Kohler or similar)	per pc	2 Pcs
142	Impression trays (Perforated)U/L	per set	11 set
143	Impression trays U/L size 1,2,3 for reversible hydrocolloid, water cooled	per pair	1 pair each
144	Intra oral and Photographic Mirror Titanium coated Trapezoidal shape Blunted margins 2.5 inch short side 4 inch long side	per pc	22 pcs
145	Intra Oral Sand blaster (Danville / Similar)	per unit	1
146	Intra-osseous anesthetic system- with 27 gauze perforator & 27 gauze needle 8mm - stabident / X-tip /similar	per unit	1
147	Kidney tray Stainless Steel, (Medium size)Passivatedfor rust prevention and Ultrasonic Cleanable	per pc	65 pcs
148	Kilner Malar elevator 18cm, Blunt end High German Stainless steel, CE certification	per pc	2 Pcs
149	Lab Hex Driver (4.520 HL, 1.25MM,/0.05') (Compatible with Alpha bio)	per pc	2
150	Lab. Micromotor and straight handpiece - (Maximum speed 35000- 50000rpm, Foot Control Paddle, Ergonomic Design, Excellent durability, Portable, Forward – reverse switch, low noise, low vibration, FDA, CE certified)	per unit	1
151	Laser caries detection device (Diagnodent pen/similar) DIAGNOdent pen Unit, Sterilization cassette, 1 standard AA battery, instructional DVD, practice Integration Kit, 2 tips – type A for occlusal surfaces, 2 additional occlusal tips with mail in coupon, sterilizable calibration standard, clinical guidelines and operation manual, laminated quick reference guide.	per unit	1
152	Lateral nasal wall osteotome 19 cm, used for making the lateral nasal wall cut in Le Fort osteotomy. Should have a thin blade to allow a fine cut without significant wedging. Should have a guard to protect the nasal mucosa and reduces or eliminates lacerations. High German Stainless Steel, CE certification	per unit	2
153	Lateral vertical ramus retractor § Set of 4 retractors § 20 x 80 mm § 25 x 80 mm § 30 x 80 mm § 35 x 80 mm § Thin blades for easy insertion. § Adequate width of the blades to offer better retraction. § Simultaneous placement of two retractors should be feasible. § Should have rigid blades to give good resistance while using osteotome or drill. § Should provide protection of soft tissue and vessels posterior to the mandible while it is split. § Should have handles which are comfortable to hold.§ High grade German Stainless steel § CE certification	per unit	2
154	Lead Apron with Lead Coller and hanger	per set	3 pcs
155	Lead Number	per pkt.	15 pkt
156	Lead protection screen- three panel; centre panel with two wings, foldable mobile screens mounted on sturdy power chip resistant legs;large free running castors ,with locking and anti- static features, high protection, compact design, easy handling, size 6x3ft; lead glass: size 8"x10", thickness 1.5mm; fitted in the middle panel of the device	per unit	5 pcs
157	Ligature tucker /director (Leone/Similar)	per pc	4
158	Light Table – One piece Specifications: Illuminated Area – 48"x24" (inches) Length- 48"-52" Width – 24"-28" Height – 32" Depth – 4"-5"	per unit	1
159	Loud speaker and microphone Portable with 60 W with 4 output and provision of rechargeable battery	per unit	1

160	Mandibular Anterior forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per set	10 set
161	Mandibular molar forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per pc	12 pcs
162	Mandibular Premolar forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per set	7 set
163	Masserann instrument retrieval system	per unit	1
164	Mathieu Needle holder for orthodontics (GAC/Leone/Similar)	per unit	4
165	matrix band retainer Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per unit	25
166	Maxillary 3rd molar forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable, Left & Right	set of left & right	10 Pcs
167	Maxillary anterior forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per pc	10 Pcs
168	Maxillary Molar forceps Left side Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported,	per pc	2
169	Maxillary Molar forceps Right side Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported,	per pc	2
170	Maxillary premolar forceps Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per set	6 sets
171	Maxillary root forceps	per pc	2
172	Mayo abdominal retractor. Martestic quenched, magnetized steel. Length 11 inches (27.9 cms), blade width 2 3/4 inches (7 cms)	per unit	1 each
173	Measuring tape	per pc	5 pcs
174	Metallic slide tray ,rectangular	per pc	20
175	Micro motor 220V with attachments, clinical engine, Reverse – Forward, hand & foot control, 0 – 35000 RPM	per unit	2
176	Micromotor surgical handpiece Straight handpiece 1:2 Increasing For surgical burs (ø2.35) Twist chuck Max Speed: 80,000 /min Should be FDA , CE,UL or BIS approved product	per unit	8pcs
177	Microtome blade holder compatible with micromicrotome Stainless steel for use with high & low profile blade	per unit	1
178	Mini cooler freezer 0 degree 1. Keep Reagents and enzymes cool for 24 hours. 2. No temperature fluctuation. 3. Maintain at -5 Celsius to -10 Celsius for 24 hours. 4. Provision of keeping 12-30 samples at a time with capacity of 1.5 ml each.	per unit	1
179	Mini cooler freezer -20 degree 1. Keep Reagents and enzymes cool for 24 hours. 2. No temperature fluctuation. 3. Maintain at -20 Celsius to -25 Celsius for 24 hours. 4. Provision of keeping 12-30 samples at a time with capacity of 1.5 ml each.	per unit	1
180	Minihead air rotor hand piece [push button type ] [W and H/similar] 300000 to 450000 RPM, 135 degree C autoclavable and compatible to gnathus, anthos, Adec chairs	per unit	1
181	Minihead fibroptic air rotor hand piece [push button type ] [W and H/similar]	per unit	2
182	Minnesota Retractor	per pc	7 pcs
183	Model Trimmer Double Disk, coarse and fine grinding, diamond	per pc	1
184	Modular slide storage cabinet • Modular slide storage system • Modular storage system with base and legs • For storage of 3X1 inch slides in stackable trays	per unit	1



	<ul style="list-style-type: none"> <li>• Capacity for stacking at least five drawers with storage capacity of at least 4000 slides per drawer</li> <li>• Options for locking and covering</li> <li>• Accessories such as slide tray cover</li> </ul>		
185	Morris abdominal retractor. Martestic quenched magnetic steel. Dimension 6.5 X 6.5 cm	per unit	1 each
186	Mouth Mirror Top & Handle Imported	per pc	250 pcs
187	Mouth Mirror Top Imported	per pc	2550 pcs
188	Mouth mirror with handles Indian	per pc	430 pcs
189	Mouth mirror with rhodium coated reflective surface	per pc	50
190	Mouth Prop unit of 3 with chain of rubber coated metal frame Should be with chain Adult size: large and standard Child size: large and standard	per unit	10 pcs
191	MTA-messing gum	per pc	2
192	Multi functional Infared Moisture Analyzer. (User friendly allowing the user to either manually or automatically set the time temperature mode and intensity of heating and other parameters in the unit.	per unit	1
193	Nasal Forceps (Walsham's) Right and Left	set of right & left	2
194	Needle destroyer (cutter/ Electric)	per pc	40 pcs
195	Needle Holder	per pc	39 pcs
196	Needle Holder with carbide tip	per pc	25 pcs
197	Needle Less Anesthesia (Injex Similar)	per pc	1
198	Nerve stimulator · Should be suitable to identify peripheral nerves. · Should offer various stimulation patterns like Single twitch, TOF, PTC, and DBS. Should offer tetanus twitch with 50/100 Hz · Should have selectable stimulation intensity ranging from 0-80 mA with minimum graduations of 0.1 mA. The impulse width should vary from 0.1 ms, 0.3 ms, 0.5 ms, and 1.0 ms · Should continuously measure & digitally display actual current delivered and the selected current. · Should have pause function to interrupt stimulation. · Should automatically switch off with an acoustic warning if left standing by for prolonged periods. · Should be small, portable & light weight · Should come with adaptor, rechargeable battery and its charger · Should have CE/FDA or equivalent certification	per unit	1 unit
199	Obwegeser Multipurpose periostial retractor § Must be CE/FDA approved. § Should have a flat and sharp end. § The working end should allow it to be used where the periosteum is tightly adherent to the bone. § Sizes:6mm,7mm,9mm and 11mm. § High German Stainless steel § CE certification	per unit	5
200	Obwegeser ramus retractor § 22 cm § 11-15 x 70 m § Conic shaped blade § Used to retract the tissue over the anterior aspect of the ascending ramus of the mandible in surgery involving this area. § Concave retractor blades to protect the lip. § High grade German Stainless steel § CE certification	per unit	2
201	OPG Cassette with screen {15x30cm) compactable to machine (Planmeca Proline ec)	per pc	4
202	Original Reich self-retaining retractor 1. 16cm 2. Left and right side 3. Should have movable blades and joints for optimal adaptation to the	per set	2

	wound edges to permit increased exposure in the limited operation field 4. CE certification		
203	Original Tessier bone graft osteotome 1. 10mm, 15mm, 20mm, and 30mm 2. should have a hexagonal handle which allows a firm grip when taking bone grafts. 3. Should have a thin blades and cutting edges to avoid spillage of the osteotome and breakage of the grifts. 4. High German Stainless Steel 5. CE certification	per set	1 of each size
204	Original Tessier Retro maxillary curved chisel § Should allow for osteotomy and dysjunction between the pterygoid plate and maxillary tuberosity. § Should have a rounded shaft to be well adapted to the corner of the mouth § It should have a wide top to allow the instrument to be struck with the palm of the hand. § 6 mm and 9 mm § High German Stainless steel § CE certification	per set	2 pc 1 each size
205	Orthodontic polymerization pressure Vessel (Dentauram /Leone/Similar)	per unit	1
206	Osteotomes Straight Angled (Compatible with Apha Bio Kit)	per pc	Angled 2
207	Oxygen analyzer Measurement range 0-100% with +/-1% accuracy long life (>2 yrs.) galvnic cells with adjustable alarm limits.	Per unit	1
208	Paraffin dispenser • Capacity 3 liters • Provision of thermostat for temperature regulation • Inner and outer wall made of stainless steel • Should be operate at 230V • Melting time of wax is 1 hour(Approx)	per unit	1
209	Parallel Guide (Compatible with Alpha bio)	per pc	2 pcs
210	Pediatic extraction forceps upper , rt /lt molar Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable, Left Hand & Right Hand usage	per set R & L	1
211	Periodontal Probes (Hu Fridey) 1. UNC-15 Probe 2. CPTIN PROBE 3. WILLIAMS PERIODONTAL PROBE 4. CALIBRATED NABERS PROBE	per pc	CPITN probe - 5
212	Periosteal elevator Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable-Imported	per pc	195 pcs
213	Phantom table with phantom heads with attached light airotor and micromotor 1. Articulated upper and lower jaws having 32 ivorine screw able teeth with a r device ( frasco/colombia/kavo/Dento form) 2. The Phantom Head should allow all 3- dimension movements with human lil rotation 3.Dental training system complete with phantom Head Specification for workstation for phantom Head 1. Manual controls of one high speed and one low speed hand piece 2. One air motor (20000- 40000 rpm) with contra angle hand piece. 3. Disc type foot control and coiled hand piece tubing. 4. One airoter hand piece with two spare cartridges. 5. three way air/water syringe	per unit	3

214	Pharmacological refrigerator, PHARMACOLOGICAL REFRIGERATOR: Should have • Upright freezer, temperature range from 1°C to 10 °C; • Thermostatic controls with manual defrost;work on 220V/50Hz AC; • Capacity approximately 400 litres.(inner body should be of stainless steel); • digital Micro Processor; • Warning alarm(high/low temp); • 4-5 racks; • Voltage stabilizer should be provided with the deep freezer.;ISO certification.	per unit	1
215	Physio Dispenser Control unit with AHC • Max. Output / Max Torque 210 W / 20 Ncm • Power supply AC120V or 230V 50/60 Hz • Max. Pump Output 75ml / min • Programs 8 Programs • Dimensions W268 X D230 X H103 (mm) Micro motor • Motor speed 200~40,000 min-1 Foot control • Foot control Functions speed control, Coolant Control, forward / reverse, Program Control • Speed control variable • Applied stand IPX8	per unit	1 pcs
216	PiCO simple smokerlyzer - carbon monoxide monitor (manufactured by Bedfont-scientific Ltd)	per unit	1
217	Piezosurgery unit (Vibration Frequency <50 kHz, peristaltic pump flow rate < 80ml/min, multifunctional dual foot switch) with Bone surgery kit, Crown Extension kit, Sinus lift kit, Intra lift kit, Extractioin kit and Perio kit	per unit	1
218	Pindex System for making holes in the cast for fixing die pins	per unit	1
219	Plaster Dispensor • Wall mounted • Electrically controlled • Material – stainless steel • waterproof	per pc	1
220	Plaster trap,capacity-50 to 70 lit.	per unit	2
221	Plaster trap,capacity-upto 20 lit	per unit	
222	Plast-O-Probe for for implants (Hu-Friedy or similar)	per pc	2
223	Portable Light cure unit High Brightness LED Light, High articulation optical fiber,Three working modes with battery and cord	per unit	2
224	Portable suction machine-ardo medicalAG switzerland,Ardo Master / similar	per unit	2
225	Posterior Band Remover (Leone/Similar)	per pc	4
226	Pressable porcelain furnace + vaccum pump + ceramic material. (Specification Attached in NIT Document)	per set	1
227	Probes (Explorers) Hufridy/similar ,Curved	per pc	30
228	Probes (Explorers) Hufridy/similar, Straight	per pc	120
229	Proximal Contouring plier (No.114) Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per set	2 sets
230	pulse lavage • Irrigation pressure can be electronically controlled, Easy loading of tubes in the machine, Autoclavable and reusable tubes of medical grade silicon ,Foot control operated,Fully stainless steel unit for long life, Efficient peristaltic pump,Simple on/off switch, Three types of irrigation possible, Single stream tip for wider stream & general irrigation Shower spray for cancellous bone preparation, trauma, soft tissues debridement & general irrigation.	per unit	1

	Shower for dual purpose irrigation & suction along with special cup type anti-splash shield		
231	Putty cutting knife	per pc	2
232	Ramus Retractor	per pc	2 pcs
233	Red ring Hand piece - Contra angle handpiece, 1:5. narrow head. Penta spray. CE Certification. With light.	per unit	5
234	Refrigerated Centrifuge (Specification Attached in NIT Document)	per unit	1
235	Ribbon Arch Plier (Leone/Similar)	per pc	4
236	Rimlock Dentulous set of U/L size 1,2,3	per set	21 pairs each (No.2,3), 0,4 1 each
237	Rimlock Edentulous set of U/L size 1,2,3	per set	10 pairs each (No.2,3)
238	Root elevator Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per pc	20 pcs
239	Rowe's disimpaction forceps 1. 23 cm 2. right and left 3. High German Stainless Steel 4. CE certification	per pair	1 pair
240	Rowe's zygoma elevator 1. 25.5 cm 2. Blunt edge 3. High German Stainless Steel 4. CE certification	per pc	1 pcs
241	Rubber dam kit hygienic / similar	per unit	5
242	RVG Sensor positioning system: Ring and Arm type positioning system, Complete kit with bite blocks for RVG 5100/6100/6500 sensors.( Rinn XCP-ORA, Dentsply/similar)	per unit	2
243	S. Steel Tray with lid (8x10 inches)	per pc	12
244	S.S. Tray (8 X 4)	per pc	22
245	S.S. Tray Rectangular (10 X 6)	per pc	12
246	Sailer maxilla mobilizer i. 23cm x 11mm ii. Should permit controlled mobilization of maxilla following le fort osteotomy	per pc	1
247	Sailer wire cutter i. 17.5 cm ii. Should assist in cutting of wire in the posterior oral cavity for wire osteosynthesis	per pc	10
248	Salzburg bone holding forceps i. 14cm ii. High German Stainless steel iii. CE Certificate	per pc	1
249	Salzburg periosteal elevator and repositioner i. 24.5cm ii. Double ended instrument iii. Should have a repositioning fork at one end for anterior and posterior and superior repositioning of the condylar fragments. iv. The other working end should allow to push the fragments. v. CE Certification	per set	1
250	Salzburg retractor i. 24.5 cm ii. Should act as a repositioning instrument for both condylar heads in cases with displaced fragments.	per pc	1

	iii. CE Certification		
251	Salzburg sigmoid notch retractor i. 23cm ii. Should be able to serve for interior and lateral repositioning of the distal fragment in cases with mandibular collum of ramus fractures	per pc	1
252	Saw Blades, Recirculation and oscillating	per pc	5 each
253	Scissors Surgical, Straight, Small ii) Small sharp tapering iii) Curved (suture cutting)	per pc	2 2
254	Scissors (Castrovejo) (Amron or similar)	per pc	20
255	Separator Placing pliers (Leon / Similar)	per pc	2 pc
256	Slide box plastic A) 100 slides	per pc	10 box
257	Slide box plastic A) 50 slides	per pc	10 box
258	Slide box wooden	per pc	10 boxes (1 box contain 100 slides)
259	Slide staining rack	per pc	10
260	Soap Dispenser, wall mountable S. Steel	per unit	20
261	Split Chisel Set (Kohler or similar)	per set	1
262	Spot Welder with soldering electrodes (Dentaurum /Rocky mountain)	per pc	4
263	Steel trolley Stainless Steel, Passivated for rust prevention	per pc	1
264	Steel Autoclaveable Drums Size: Large	per pc	7
265	Steel Autoclaveable Drums Size: Medium	per pc	3
266	Steiglitz forceps	per pc	1
267	Stereo Micro Scope (Camera for the Stereo microscope, Desktop computer System, Scanner, Laserjet Printer (Color) (Specification Attached in NIT Document)	per unit	1
268	Stethoscope (Littman / Similar)	per pc	3
269	Stop Drill Bone Packer (Mr. Curette or similar)	per unit	1
270	Straight elevator Stainless Steel, Passivated for rust prevention and Ultrasonic Cleaned-Imported	per pc	20 pcs
271	Surgical Curved Scissors (Small) (Amron or similar)	per pc	5 pcs
272	Surgical Screw Driver (4220 SOH)6.35(1/4") Hexagonalhead (Stainless Steel) (Compatible with Alpha Bio)	per pc	2 pcs
273	Surgical Straight Scissors (Small) (Amron or similar)	per pc	7 pcs
274	Tens Machine (Specification Attached in NIT Document)	per unit	1 unit
275	Tessier Skin Hook (Original) i. 19cm ii. Designed for grasping thick skin flaps the lateral iii. High German Stainless Steel iv. CE certification	per pc	6
276	Thermo cycler for PCR (Specification Attached in NIT Document)	per unit	1
277	Tissue cassette with lid (A) 30x30x10 mm Perforated, made up of stainless steel	per pc	20 cassettes
278	Tissue cassette with lid (B) 20X20X10 mm Perforated, made up of stainless steel	per pc	20 cassettes
279	Tongue Depressor	per pc	9 pcs
280	Torch Small- LED Type with AAA rechargeable battery	per pc	4
281	Torque Angulation Recording Gauge for lingual orthodontics	per pc	1
282	Towel Clips	per pc	17

283	Transbuccal instrument set - (Transbuccal instrument set should have following contents that allows placement of screws through the buccal tissue for fixation of mandibular fractures and for reconstructive and Orthognathic surgical procedures Should have Tray for additional Instruments Should have Trocar with Handle and Obturator 2.0/2.4/3.0 (handle should be slim). Should have Cheek Retractor Blade U Shaped, should not require screw to fix should simply attach to obturator in position of choice on surgeons side Should have Drill Sleeve for 1.8 Should have Insert Drill shleeve for 1.8/2.4 Should have Drill Sleeve for 2.4 Should have Depth Gauge 1.5-2.0 m, measuring range up to 45 mm)	per set	2 set
284	Transfer copings (for open tray & closed tray) (with compatible with alpha bio)	per unit	15
285	Travel Bag Size- 2.5 feet X 0.5 feet X 1 feet, washproof Polyester material with wheels and Push-button locking extension handle, Top and side carry handles In-line skate wheels for durability and easy rolling	per pc	1
286	Trephine Burs (4MM, 5MM, 6MM)	per pc	2 each
287	Tweezers S. Steel	per pc	160
288	Typhodont with Teeth	per set	27
289	Typhodonts with jaw bases Pediatric	per set	02 Sets
290	Ultra Low Temperature Laboratory Freezer (Specification Attached in NIT Document)	per unit	1
291	Ultrasonic cleaner • Anterust body • Stain proof Scratch proof • Plastic coated tank with tank capacity 14-15 ltr. • 3 sections instrument basket, automatic off tuner • Automatic drainage system • Digital timer	per unit	1
292	Ultrasonic Scaler with Power Supply-Ac 230 v 50/60 Hz Frequency- 28-32 H3 Max.Output-11w 2 bottle-400ml each Auto cleaning mode 360 foot control Optic Handpiece -(Various 970 ipiezoenguine -NSK Or Similar )	per unit	4
293	Universal Plier Stainless Steel, Passivated for rust prevention and Ultrasonic Cleanable	per pc	3
294	UV Chamber Wall Mount Dimension 590 x 235 x 298mm,Power Consumption < 10 watts, ultra violate blue light 8 W, Micro – Switch ON / OFF Control, Inside Body Covered with stainless steel, 12 SS Tray for store instrument	per unit	2
295	UV Flash light with Batteries Specification: Buld Type; 395-400nm UV, LED 16-21 Product dimensions: Atleast 5.2 X 1.5 X1 inches Battery Powered - 3 AAA or as per the Model requirement	per unit	2 pcs
296	Vaccum forming machine fully electronic (BIOSTAR) • Dual chamber, for different sheet thickness computerized head adjustment system • Europeon standard	per unit	1
297	Vertical Iaminar flow Cabinet construction mild steel / SS-304 Frequency 50	per unit	1

	Nominal voltage 220-230 volts Air flow Unidirectional Noise pressure(dB) (A) <54dB Pre filter unit Washable pre filter unit Illumination Fluorescent light illumination greater than 800 lux Power Requirements 500-750 watts Internal work space (mm) 4'x2'x2' /		
298	Vibrator Vibrator table/surface, easily removable, cleanable.	per unit	3
299	Visible light cure chamber	per unit	1
300	Vizilite kit	per kit	20 units
301	Vortex Mixer Mixing on a 3-in-1 format • Plates( upto 96-and 384-well formats) • PCR plates (skirted, semi-skirted, unskirted) • Deepwell plates • MTPs • Tubes- 0.2 ml PCR tubes & strips, 0.5 ml, 1.5 ml, 2.0 ml micro test tubes • Vortexing numerous test tube formats Mixing frequency 300 to 3,000 rpm (in 50 rpm increments) Touch Vortexing frequency 3,500 rpm Noise level less than 50 dB (A) 2-D Mixing Control • Optimized mixing • Anti-spill technology • Preprogrammed soft keys • Reliable universal holders • Automatic imbalance detection Digital display	per unit	1
302	Warwick James elevator	per pc	20 pcs
303	Water Bath Incubator Shaker (Metabolic Shaker (Constructed out of thick PCRC sheeet duly pre-treated with primers and rust proofing. Heating- Indirect heating system Shaking- Oscillating tray riding on ball rollers oscillated through a greaed variable speed motor. shaking sppe 40 tp 140 cycles per minute.	per unit	1
304	Weighing machine adult children	per pc	3
305	Wheel chair with Straps	per pc	1
306	Wire cutter (Heavy duty)	per pc	24 pcs
307	Wire tightener (wire twister with heavy beaks)	per pc	20 pcs
308	Wooden Hammor ( To be used with flask and clamp)	per pc	2
309	X-ray viewer 2'x3' (Delos / Similar)	per pc	2
310	X-ray, viewer Dilos/Similar 1.5 x 1	per pc	2

# Specification

## **Anesthesia Machine**

Should have Sturdy body structure, durable finish, modular design, antistatic, heavy frame with good quality castors with front brakes, with following features:

- 1 Three gas model, viz Oxygen, Nitrous oxide and Air
- 2 Should be compact, ergonomic, easy to use and easy to maintain.
- 3 Should have separate fresh gas outlet for use in open circuit.
- 4 Machine should have flow meters for Oxygen, Nitrous Oxide and air. Emergency oxygen flush should be available. There should be facility to select oxygen + air or oxygen + nitrous oxide with the help of a separate switch or knob.
- 5 Dual flow sensing capacity at inhalation and exhalation ports.
- 6 Should have paramagnetic / galvanic cell oxygen sensors. In case of galvanic cell sensors, the firm should supply free sensors for the entire warranty period . In case of paramagnetic sensors, the firm shall ensure that there is no down time during repair of these sensors (if necessary) and provide a standby alternative.
- 7 Shall have back-up O<sub>2</sub> control which provides an independent fresh gas source and flow meter control in case of failure.
- 8 Pressure regulators shall be of modular design.
- 9 Electronic or Mechanical Hypoxic Guard to ensure minimum 25% O<sub>2</sub> across all O<sub>2</sub> –N<sub>2</sub>O mixtures and Oxygen Failure Warning.

### **Vaporisers:**

- 10 Facility of mounting minimum two Vaporizers, latest technology, key filler, selectatec type, tool free installation, meaning any vaporizer of our choice can be mounted at will with interlocking facility. It should be preferably of the same make as that of machines.
- 11 Temperature, pressure and flow compensated with high accuracy of delivered concentration of volatile anaesthetic agent. Should be maintenance free.
- 12 Three vaporisers should be supplied (Isoflurane, Sevoflurane, Halothane)

### **Ventilator:**

- 13 The machine should have an integrated Anesthesia Ventilator system with TFT screen of at least 8", facility to vary respiratory parameters and should be able to ventilate adult and pediatric patients including infants.
- 14 Ventilator shall have Volume controlled and Pressure Controlled modes with SIMV, pressure support, PEEP, manual, spontaneous modes.
- 15 Ventilator shall have a tidal volume compensation capability to adjust for losses due to compression, compliance and leaks: and compensation for fresh gas flow. Breathing system (circuit) shall be fully autoclavable at 134<sup>0</sup> C and natural rubber / latex free.
- 16 Tidal volume (inspired and expired), respiratory rate, I:E ratio, minute volume, Airway Pressure, & FiO<sub>2</sub> should be continuously displayed.
- 17 Audio-visual Alarms for high and low settings of pressure, volume and disconnection should be present.
- 18 Tidal Volume (VT) 20-1500 ml (Volume control), rate at least 4-80 BPM.
- 19 Inspiratory / Expiratory ratio (I:E) 2:1 to 1:6, & Peak Flow – 100 to 120 L/ min.
- 20 Positive End Expiratory Pressure (PEEP), Integrated, electronically controlled, OFF, 4 to 20 cm H<sub>2</sub>O.
- 21 Ventilator should have at least 30 min rechargeable battery backup for ventilator. The Anesthesia Machine should keep working even after power breakdown including hypoxic guard.
- 22 Machine should have an integrated breathing circuit with circle absorber of good quality, easy to clean, autoclavable, fewer parts to reduce leaks.



- 23 Machine should have mounting capability of one O<sub>2</sub> and one N<sub>2</sub>O pin-indexed cylinder
- 24 Adult autoclavable (2sets) breathing circuits & one paediatric circuit to be provided
- 25 The firm should have sufficient experience in the field and should be direct authorized agents of the Principals (Certificate to be attached)
- 26 Machine should be equipped with AGSS.
- 27 Warranty / Guarantee as per tender documents.

## **CLASS II, TYPE A2 BIOLOGICAL SAFETY CABINET**

- Internal dimension (W x D X H) should be approximate 50" x24"x26".
- Dynamic chamber plenum with negative pressure surrounding contaminated positive pressure plenum without fabric bags.
- Dual long life ULPA (H-14 Grade) filter for supply and exhaust airflow and filter efficiency >99.99% at particle size between 0.1 to 0.3 microns. Down flow air and exhaust airflow ration approximately 63%:37%.
- Microprocessor control system for supervision of all cabinet functions.
- Interior work area of a single piece of stainless steel and single piece stainless steel work surface.
- Main body made up of electro-galvanized steel with ISOCIDE oven-baked epoxy-polyester powder coating.
- Air Inflow velocity should be 105 FPM and down flow velocity should be 70FPM.
- Noise level as per international standard and fluorescent lamp intensity more than > 1400 Lux.
- Frameless, shatterproof sash is easier to clean with automatic UV shut-off on sash opening. Actual work access height approximate 45mm. The 10-degree angle front window and narrow profile front grille improve reach into the work area. Cabinet should have raised armrest.
- Built-in high efficiency centrifugal blower, germicidal UV lamp with light emission approximately 254nm, 2 number choke-less fluorescent lamps, one service fixture for gas/vacuum/ air inlet, 2 electrical sockets and support stand with castor wheel.
- Meet American NSF/ANSI 49 and En 12469 type-tested, Europe, Air quality ISO 14644.1, class 3, filtration IESTRP-CC034.1, Worldwide. Submit a copy of EN 12469 certification along with the quote.

## **Computerized Occlusal Analysis System**

should be comprised of:

### **1) Window based software: with features that allow user to:**

- Record the patient's occlusal contact data
- Copy occlusal contact data (as an image or text file of actual force percentage value ) and paste it into other window application, or to print the information to any of the hundreds of window-compatible color or grayscale printer.
- View the patient's tooth contact and associates them with specific teeth
- Analyze the data, with the force and time relationships of the contacts displayed as color contour images showing: Instant MA (Maximum Area Frame), Center of force, Center of force trajectory
- More advanced feature,such as : Max ,Delta,Graph,Graph Zoom and 3D Columns
- Intuitive database to Manage patient records and movie files

### **2) Associate Hardware**

- a) USB Handle

- b) USB Sysetm carrying case
- c) User Manual
- d) Practical &reliable occlusal analysis DVD

**Patented Tekscan Sensors:**

Ultra thin (0.004", 0.1mm), sensors to detect patient's occlusal forces

- a) Small Sensor : 10Nos.
- b) Large Sensor :10 Nos
- c) Small Sensor support :02 Nos
- d) Large Sensor support :02 Nos

- 3) **LAPTOP-with original operating system, I-5 processor, 4GB ram, 500GB hard disc Compatible with the system .**
- 4) **CAMCORDER with necessary links/attachments, Compatible with the system.**
- 5) **Provison for Future upgradation of the system/software**

**Cryosurgery Unit**

1. Should be stand-alone unit consist of a tank, a pressure regulator, and a probe attached by tubing to the tank.
2. Should be a fully mobile cryo-surgical system with a wide array of interchangeable probes designed for the use of oral surgical procedures.
3. Either Nitrous oxide or carbon dioxide or both can be used as refrigerant.
4. Units should support various probes and tips.
5. Nitrous based unit should have scavenging ability.
6. Should have adjustable freezing temperatures and pressures through a regulation system.
7. Should have non-electric defrosting system.
8. All cryo-probes must be sterilizable.
9. Operating pressure 450 to 800 psi.
10. Operating temperature -70 to -10°C for Carbon dioxide and -90 to -25°C for Nitrous oxide.
11. Should be supplied with triggers/connection for N2O or CO2.
12. Should be supplied with rolling cart.
13. Should be supplied with unfilled cylinder for N2O or CO2.
14. Should be supplied with following tips
  - a. 2 mm diameter flat
  - b. 5mm tip diameter 45° angulations
  - c. 8 mm tip diameter 45° angulations
  - d. Curved tip 5mm/8mm
  - e. General purpose tip
15. Tips should be supplied with single use, disposable plastic shields (50 with each tip)
16. Compatible with CO2 and N2O gases.
17. Foot pedal easy to operate.
18. Light weight and mobile.
19. Pipeline of good quality with brass attachment for cylinder.
20. Spanners for the attachment.

**Standards, Safety and Training:**

1. Should be FDA or BIS approved product.

**Documentation:**

1. User/Technical/Maintenance manuals to be supplied in English.
2. Certificate of calibration and inspection.
3. List of important spare parts and accessories with their part number and costing.

4. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
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.

### **Deep freezer -20 degree C:**

- Should have
- Stainless steel exterior.; White aluminium interior.
  - Capacity 12 Cu ft.
  - Number of shelves: Three(3).
  - Microprocessor based temperature controller with digital temperature display LE-LCD with seven days graphic inkless temperature recorder.
  - Cascaded connection with hermetically sealed refrigeration to minimize noise and vibration.
  - Air cooled with security lock to prevent unintentional switch off.
  - Short cooling time of 3 to 4 hours at maximum ambient temperature of 33C.;
  - Continuous duty and frost free.
  - Access port for CO2 backup for refrigeration system in case of machine failure.
  - Audio visual electronic alarm system independent of power supply.
  - Operational on 220 to 240 V at 50 Hz.
  - Digital Thermometer with water proof sensor for temperature display of inner chambers.
  - larger and clear display.
  - in built in the unit/provided separately.

### **ELECTROPHORESIS (horizontal)**

Should have

- Optimum temperature, humidity and dimension to perform at least 30 samples in a queue without interruption
- Unit Dimensions (W x L x H) 31.5 x 19 x 7cm
- Gel Size -> (15 x 7cm) with trays
- Buffer Volume-> 450-950ml
- Buffer Recirculation Ports ->2
- Maximum Sample Capacity ->180-200
- Combs ->2
- Comb Thickness -> 1, 1.5 or 2mm
- Recommended Running Voltage ->75 to 150V
- Power Output Connectors Shrouded, 4mm (diameter)
- Recommended power supply -> Consort EV245
- Safety certification is mandatory.
- Allow the user to image the gel without risk of damage due to handling.
- Provision for safe and easy transportation around the laboratory.
- Option for upgradation from 2 gels to 4 gels in the same tank.
- Interchangeable module, which can run SDS PAGE or do western blotting in the same buffer tank.

#### **Control unit with AHC**

1. Max. Output / Max Torque 210 W / 20 Ncm, 50/60 Hz,
2. Power supply AC120V or 230V
3. Max. Pump Output 75ml / min,
4. Programs 8 Programs,
5. Dimensions W268 X D230 X H103 (mm)

**Micro motor :-** Motor speed 200~40,000 min-1

**Foot control :-** Foot control Functions speed control, Coolant Control, forward / reverse,

**Program Control :-** 1. Speed control variable, 2. Applied stand IPX8

### **GEL DOCUMENTATION SYSTEM**

Should have

- Camera of 4-6 mega pixel , with high resolution and 10 bit scientific grade sensor.
- Lens of 8mm, F 1.4 hands free lens with smart capture technology.
- Pre-focused lens with reasonable filter
- Compatible image capture software
- Large field of view.
- Dimensions- 32-35x 30-32x 65-70 cm
- UV, white light & optional blue light
- Cabinet built in UV transilluminator with safety cut-off switch
- Stain- free capability system for stain-free gels and blots.
- Customizable sample per user and recognized automatically
- 100% reproducibility of the workflow by any user
- One button acquisition from image capture to result
- Generate the publication ready images with one click export system
- Capacity to generate customizable reports.
- Power back up supply for at least 1 hr.

#### **PC specification:-**

Should have

- Around 2.6 GHz processor speed, Quad core processor
- 4-8 GB RAM
- 1 TB free hard disk space
- 4 USB (Camera and printer laser(Color))
- Windows 8 or later
- Monitor- LED 17"
- UPS 1KVA

### **Pressable porcelain furnace + vaccum pump + ceramic material.**

Dual function (Ceramic pressing & Ceramic firing). Electronic press drive. Pressure Range between 2.5 to 5 bars. Power protection. Cooling grid to provide uniform cooling. Automatic temperature checking. Max prssing temp – 1200 degree c. Stand by Mode. Adjustable firing Time. Multiple Program memory – (at least 50 programs for normal firing & 20 programs for pressing ceramic). Should have a user friendly control panel with graphic display that optically shows all relevant in formations. The muffle should have a homogeneous heating with cords glass protection. The temperature degree rate up to 140 C. The machine should have inbuilt diagostic program for user convenience. Computerized / Auto Calibration, PC / Printer /USB connectivity. Automatic power factor to check power fluctuation. Equipped with a Crack detection system which aborts the press procedure if required. Compact and modern design. Should have a double diaphragm pump for high performance and a very low noise level. Final vaccum approx. 30 mb. Should come with an additional removable silencer.

## REFRIGERATED CENTRIFUGE

Should have

- Compact size of micro centrifuge type: lightweight, approx 25 - 30Kg.
- Brushless motor to provide the maintenance free drive.
- RCF of 18- 21, 130 X g for shorter centrifugation period.
- Noise: Whisper quiet operation
- ECO shut-off function turns compressor off after eight hours
- Programming of pre-cooling via date and time to make sure the centrifuge is ready for use you come to lab in the morning.
- Active cooling to eliminate heat build-up
- The temperature range: - 10<sup>0</sup> C to + 40<sup>0</sup> C.
- SOFT –brake to protect delicate samples.
- Fully adjustable end –of run-alarm (levels 1-5, mute) to reduce noise;
- Short-spin function that can be programmed to your desired speed.
- UPS to give appropriate power backup for at least 30 minutes during light failure.
- Rotors: Should be aerosol tight and PTEF coated (24 X 1.5/2.0ml tubes, 0.5ml with adaptors), 4 X 8 tube PCR strip rotor, and autoclavable.
- Manual of include the user/technical/maintenance manual.

## STEREOMICROSCOPE SPECIFICATIONS

Basic configuration	Trinocular Zoom stereo microscope
Viewing eye piece	Wide Field 10x with focusable movement.
Objectives	0.5x / 1.0x
Zoom ration	1:7 minimum
Illumination	Dual light 1. Built in illumination – LED on stand base, 2. Ring Light Additional Polarizing Kit
Other	Photo adapters for CCD Camera (varies according to the camera chosen) – usually C-mount.

### A. CAMERA SPECIFICATIONS FOR STEREOMICROSCOPE: Preferably from Same manufacturer for compatibility.

Image sensor	2/3'' CCD progress
Color	Color
Resolution	<u>Minimum</u> 5 Megapixels
Interface	Preferably firewire IEEE 1394a <u>or</u> USB
Optical connection	C-mount
Dynamic range	66 to 68 dB
Analog / Digital conversion	12 bit / 14 bit
Frame rate	<u>Minimum</u> 24 frames per second(FPS)
Software	Application software for viewing (camera drivers) and performing basic measurements on computer (image analysis)

### B. Desktop Computer System – Specifications:

Processor – Intel Pentium i5 / i7 or newer version (FSB ≥ 1.4 GHz)

RAM – At least 6 GB, Hard Disk – At least 500 GB, CD / DVD Combo drive for Read & Write purposes

High end Graphics and video card, Operating System – Windows 8 or equivalent.

Web camera and speakers

**Additional software –**

**Image analysis software for Stereomicroscope** (with Update facility).

Adobe Photoshop (Version CSS 5 or newer), Adobe Acrobat Reader (Version X or newer)

CorelDraw (version 13 or latest),

Microsoft Office 10 professional or latest

AutoCAD – 2013 or latest version,

MatLab – 2013 or Latest version

**C. Scanner Specifications: 1 piece**

**Scanner Type:** Flatbed colour image scanner, **Optical Sensor:** Color Matrix CCD line sensor

**Optical Resolution:** 6400 dpi and above, **Hardware Resolution:** 6400 x 9600 dpi

**Maximum Resolution:** 12,800 x 12,800 dpi, **Effective Pixels:** 54,400 x 74,880 (6400 dpi)

**Color Bit Depth:** 48-bit internal / external, **Optical Density:** 3.4 Dmax

**Minimum Scan Area:** A4, **Light Source:** Ready Scan LED technology

**D. Laser Colour Printer specifications: 1 piece**

Print speed black : Normal: Up to 16 ppm, Print speed color : Normal:Up to 4 ppm

First page out (ready) Black : As fast as 15.5 sec,

Colour : As fast as 27.5 sec

Up to 17/4 ppm (ISO), 8 MB DRAM, Hi Speed USB 2.0

Print quality black (best) : Up to 600 x 600 dpi,

Print quality colour (best) : Up to 600 x 600 dpi, ImageREt 2400

Duty cycle (monthly, A4) : Up to 5000-10000 pages

Recommended monthly page volume -200 to 850

Processor speed : 266 MHz

Paper handling input, standard : 150-sheet input tray

Paper handling output, standard : 100-sheet output bin

Media sizes supported : A4; A5; A6; B5; postcards; envelopes (C5, DL, B5)

Media sizes, custom : 76 x 127 to 216 x 356 mm

## TENS Machine

- Dual-Channel Tens Stimulator, 2 Lead Wires, 4 Self Adhesive Electrodes
- Timer: 30 minute, 60 minute or continuous mode selectable.
- Moulded Plastic Carrying Case, 9 Volt Battery, Operating Manual
- Power Indicator Light
- Wave Form: Asymmetrical biphasic square pulse.
- Pulse Amplitude: 0 to 80 mA each channel, adjustable, (500 ohm load)
- Pulse Rate: 2 to 120 hz, adjustable
- Pulse Width: 40 to 260 microseconds, adjustable
- Mode Selector: Switch: Burst, Normal, Modulation
- M: Modulated Width. Pulse width is automatically varied in an interval of 6 seconds. The modulation range of pulse width is from setting value to 35% less than the control setting value, then returns to the setting value. Rate, width and intensity are fully adjustable.
- B: Cycle Bursts, 2 Bursts/sec, 9 pulses/Burst, 100Hz width is adjustable.
- C: Continuous mode. Pulse rate, pulse width and intensity are adjustable.
- Maximum Voltage: 110 volts, open circuit
- Maximum Charge: 21 micro coulombs per pulse
- Power Source: 9 volt battery or similar rechargeable cell
- Dimensions: 95 mm (H) x 61.5mm(W) x 26m(T)
- Weight: Approx. 120 grams battery included in weight
- All electrical specifications are +/- 10% exception the amplitude is +/- 20% (500 load).
- Approximate cost is 15000 Rs

## **THERMOCYCLER (PCR)**

Should have

- Sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate with Peltier heating and cooling.
- Gradient capability
- Adjustable ramp rate ranging from 0.1 to 5 degree C.
- Temperature differential range of 1-24degC.
- $\pm 4$  deg C well to well within 10 sec of arrival at 90 deg C.
- Intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.
- The touch screen should be responsive for both gloved and ungloved fingers.
- Should be capable of running reaction volumes from 1-100ul.
- Ramp rate within the range of 3-5 degC/second
- Temperature range of 0-100 deg C
- Gradient range of 30-100 deg C
- Temperature accuracy and uniformity of  $\pm 0.5$  deg C
- Memory of >500 programs with further expansion through a USB Flash drive for transfer of files.
- Capacity to upgrade to real time PCR in future.
- Block and calculated temperature control modes.
- The software should have exportable Run logs and system error logs
- Quick boot up time of not more than 1 min.
- Should be quiet in operation.
- The feature of "instant incubation" to keep samples at constant temp. For ligation and restriction digests.power save mode.
- Should be compatible with all kind of plastic consumables and reagents specially reusable sealing Mats.
- Should be licensed for both diagnostic and research applications. A copy of license should be attached.
- Power save stand by function
- Interface :Ethernet, CAN in, CAN out
- Power supply: 230v, 50-60 Hz, Power consumption- 700 W
- Should also supply with UPS for atleast 1 hr back up.

## **Ultra Low Temperature Laboratory Freezer**

- a. It should have easy to use microprocessor control panel.
- b. Should have ultra low temperature setting i.e.  $-86^{\circ}$  C and uniform temperature cooling.
- c. Should have adjustable high temperature and low temperature set point with auto defrosting system.
- d. Capacity: approximately 450-550 liters, upright model double door.
- e. Should have sufficient number of shelves with sub lids
- f. Should have racks, Boxes & divider of full capacity
- g. Display:
  - i. Should be alphanumeric
  - ii. Should display actual internal temperature and set temperature of freezer
  - iii. Should display power failure, error or malfunctioning of system
- h. Body construction
  - i. Internal body should be made up of high grade stainless steel

- ii. External body should be enamelled steel or equivalent which can resist chipping and rusting
- i. Should have audible alarm system for high or low temperature, any malfunctioning of system, overload, sensor failure, back up battery, high ambient temperature and power off and condenser efficiency
- j. Should have Alarm silencing system
- k. Should provide 48 hours battery backup / liquid nitrogen / Carbon dioxide back up in case of power failure.
- l. It should have integrated date logger (software included), RS485 interface and USB port.
- m. Should have adequate electrical insulation
- n. Should have inbuilt voltage stabilier.
- o. Should have safety features like password protection, adjustable compressor delay start time setting and input voltage regulator
- p. Should be CEC free and environment friendly
- q. Should have minimum noise level (<55db)
- r. Should have adequate insulation from heat
- s. Should be provided with wheel caster for easy shifting
- t. Should be ISO / CE / FDA certified
- u. Power supply: 230V and Frequency: 50/60 Hz



## Technical Bid Format

<b>Tender Inviting Authority: Director - Principal, MAIDS</b>							
<b>Name of Work: Supply of Non-Consumable and Pathology Items for the year 2014-2015</b>							
<b>Contract No. F. 6(12)/13-MAIDS/Purchase/</b>				<b>Tender Id: 2013_MAIDS_48295_1</b>			
<b>Bidder Name:</b>							
<b>TECHNICAL BID</b>					<b>To Be Filled By Bidders</b>		
<b>(This Technical template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</b>							
Sl. No.	Item name and Description	Item Code	Quantity	Unit	Make and Model	Pack Size (Details of accessories/content)	Whether sample or literature submitted (Literature / catalogue / Physical form)
1	2	3	4	5	6	7	8
1	As per list attached		1	per pc			
2			1	per piece			

- Please describe what comprises one unit/pack size.
- In absence of samples or literatures of the quoted items, same may not be considered for Technical evaluation.

## Annexure-V

### MAULANA AZAD INSTITUTE OF DENTAL SCIENCES

(AN AUTONOMOUS BODY UNDER GOVT. OF NCT OF DELHI)

BAHADUR SHAH ZAFAR MARG, NEW DELHI

### Price Bid Format

Name of Work : Supply of Non-Consumable Items / Pathology Items / Equipments  
 Tender ID No : 2013\_MAIDS\_48295\_1  
 Tenderer's Name :

Sl. No.	Item Description	Item Code	Qty.	Units	Per unit Basic Price	C.M.C. Cost in Percentage of cost* for items Rs.3.00 Laks & above					Total %age	Total %age amount	Total cost incl. five year CMC in Rupees
						4 <sup>th</sup> year after installation	5 <sup>th</sup> year after installation	6 <sup>th</sup> year after installation	7 <sup>th</sup> year after installation	8 <sup>th</sup> year after installation			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
*Cost of Comprehensive Annual Maintenance Contract after first three years for next five years after installation including Parts + Service + Preventive Maintenance. * For items costing Rs.3.00 Laks & above													

**Columns number 7,8,9,10 and 11 are not to be filled for items costing below Rs.3.00 laks. These shall be filled if the cost of equipment is Rs.3.00 Laks or more.**

**Example:-**

- a) Cost of Equipment = Rs.4.00 lakh (with three years warranty)
- b) C.M.C. Cost for 4<sup>th</sup> year = 4.0% (of Rs.4.00 lakh i.e. Rs.0.16 lac)
- c) C.M.C. Cost for 5<sup>th</sup> year = 4.5% (of Rs.4.00 lakh i.e. Rs.0.18 lac)
- d) C.M.C. Cost for 6<sup>th</sup> year = 5.0% (of Rs.4.00 lakh i.e. Rs.0.20 lac)
- e) C.M.C. Cost for 7<sup>th</sup> year = 5.5% (of Rs.4.00 lakh i.e. Rs.0.22 lac)
- f) C.M.C. Cost for 8<sup>th</sup> year = 5.5% (of Rs.4.00 lakh i.e. Rs.0.22 lac)
- g) Five year C.M.C. Cost = 24.5% (of Rs.4.00 lakh Rs.0.98 lakh)
- h) Total cost incl. five year CMC = Rs.4.98 Laks

Prices are to be quoted for the unit as mentioned in the list so that rates of items in different pack size become comparable.

Name(s) & Signature of the Tenderer (s) with date & place

Mobile No.....

PAN No.....

e-mail .....