

PANJAB UNIVERSITY
DR.HARVANSH SINGH JUDGE INSTITUTE OF DENTAL SCIENCES & HOSPITAL
SECTOR-25, CHANDIGARH

Phone No.0172-2534686

Fax: 0172-2724912

TENDER DOCUMENT FOR THE PURCHASE/FABRICATION OF
MOBILE DENTAL VAN, EQUIPMENTS
AND CONSUMABLE ITEMS



Last Date for issue of Tender Document in respective institutes/departments/centres:	10.00 a.m. on 06.08.2012
Last Date and Time for receipt of Tender in respective institutes/departments/centres:	3.00 p.m. on 06.08.2012
Date & Time of opening of Technical bids in respective institutes/departments /centres:	11.00 a.m. on 07.08.2012
Date & Time of opening of the Price bids in respective institutes/departments /centres:	Consult the respective department.

Tender Fee Rs.1000/-

Important Notes:

- I. This tender has been invited by the Panjab University combined for procurement of various items in the different institutes / departments / centres of Panjab University. The details of tender documents, name, quantity and specifications of items to be procured along with terms and conditions are separately available in the office of respective institutes / departments / centres. **The same can also be downloaded from the link given below against respective institutes / departments / centres. The interested parties are requested to submit separate tender bids for each department.**
- II. The tender document, name, quantity and specifications of items along with terms and conditions may be obtained from the office of the chairperson/director/principal/co-ordinator of the respective institute / department / centre by submitting demand draft of `1000/- payable at Chandigarh in favour of Registrar, P.U. Chandigarh. The sale of Tender Document shall close one day before the last day of receipt of tender.
- III. No postal request shall be entertained for sending the Tender Document.
- IV. Tender fee of ` 1000/- is to be submitted along with the Tender if it is downloaded from the Website.
- V. Clarifications, if any could be sought from the Chairperson/Principal/Director/Coordinator of the respective Department/Centre/Institute in writing within the stipulated last date of submission of the tender.
- VI. The important dates for this tender are:

Last Date and Time for receipt of Tender in respective institutes/departments/centres	3.00 p.m. on 06.08.2012
Date & Time of opening of Technical bids in respective institutes/departments /centres	11.00 a.m. on 07.08.2012
Date & Time of opening of the Price bids in respective institutes/departments /centres	Consult the respective department.

PANJAB UNIVERSITY
DR.HARVANSH SINGH JUDGE INSTITUTE OF DENTAL SCIENCES &
HOSPITAL SECTOR-25, CHANDIGARH

NOTE:

This Tender document, specifications along with Terms & conditions may be obtained from the Office of the Principal cum Professor Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25.P.U. Chandigarh (by submitting demand draft of Rs.1,000/- payable at Chandigarh, in favor of Registrar P. U. Chd).

This Tender form is placed to M/s.....at
the cost of Rs.1,000/-.

From

The Principal-cum-Professor,
Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital,
Sector-25, Panjab University, Chandigarh.

1. The Principal cum Professor, Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, Punjab University, and Chandigarh has invited the Tender for the purchase/fabrication of following item.

Name of Equipment	Details specification, qty. at Annexure-C, page No.
Mobile Dental Van, Equipments & Consumable items	16-64 (Serial No. 01-458)
Equipments & Consumable	65-66 (Serial No.459-482)
Dental Consumable	67-71 (Serial No.483-700)

Please submit three separate bids for the items from Sr.No.1 to 458, Sr.No. 459 to 482 and Sr.No.483 to 700.

2. (a) You are invited to send the Technical bid and Commercial bid in duplicate to Principal cum Professor, Dr Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh. The Technical bid and price bid should be covered in a separate sealed cover. Tender Documents may please be posted/ submitted at the address given above. The latest hour and date of receipt of the offer is upto **3.00 p.m. on .**

(b)The Technical bid shall be opened at **2.00 p.m. on the next day of last date of receiving the tender.** The date and time for opening of the Commercial Bids shall be intimated later after evaluation. In case date of opening falls on day which is declared public holiday, the bids shall be opened on the following day at the same time.
3. Only manufacturers/authorized fabricators or their sole authorized distributors/sole agents are entitled to submit the Tender, otherwise tender shall not be considered. All offers other than those from the manufacturers / authorized fabricators should be supported by authority letter from the manufacturers/ authorized fabricators authorizing to the firm to submit tender on their behalf.

Certificate or a Photostat copy thereof to the effect that you are the manufacturers/ authorized fabricators of the Mobile Dental Van, equipment/ authorized sole distributors or sole agents for manufacturer/ authorized fabricators on whose behalf you are quoting, must be included in the documents.

The tender should meet the following criteria:

- (i) The tenderer must be a manufacturer/ authorized fabricators, authorized distributors / sole agent (specifically against this tender for the subject fabrication of Mobile Dental Van, equipments and consumable items) and should have successfully executed contracts for similar in the past three years prior to the date of tender opening. In support of this, the tenderer shall furnish performance statement in the enclosed Annexure I.
 - (ii) The tenderer meeting the above requirements, except for successful execution of contract for the last three years, may also participate in the tender process, provided they have valid ongoing collaboration Agreement with a manufacturer/ authorized fabricator, authorized distributors / sole agent who, in turn fully meets the criteria specified in clause (i) above and provided also, the tenderer furnishes an undertaking jointly executed by it and the collaborator for satisfactory designs, manufacturing, erection, commissioning and performance of the goods and services offered including all warranty obligations.
- 4 (a) The detailed technical specifications of **(fabrication of Mobile Dental Van, equipments and consumable items)** are given in Annexure 'C'.
- (b) Technical specifications are intended to be descriptive only and not restrictive. The bidder may substitute alternative standards, brand names and/or catalogue numbers in its bids, provided that it demonstrates to the purchaser's satisfaction that the substitutions are substantially equivalent or superior to those designated in the 'Technical Specifications'.
5. GUARANTEE / WANRRANTY & AMC/CMC
- (a) Guarantee / warranty shall be quoted for 36 months until or unless it is stated to be otherwise in Annexure 'C'. In case of variation, the guarantee / warranty may be quoted for the period given in Annexure 'C'.
- (b) In addition to quoting for the equipment as per Para 1, above, tenderers must quote the charges for Annual Maintenance Contract (AMC) for a period of 5 years for maintaining the equipment at this Institute after the expiry of the period of warranty / guarantee. During, the service contract period, the firm shall provide four preventive maintenance visits and in addition attending to all emergent and break-down calls. The service contract charges should be quoted for labour cost only and should not include the cost of any replacement parts / components that may be needing replacement. During the service contract period replacement of parts / components that may be needing replacement shall be made available by the Institute to the firm at the Institute's own expense. The charges shall be paid to the firm in quarterly installments after satisfactory service.
- (c) In addition to quoting the charges for the AMC as mentioned in Para 5(b), the firm must also quote the charges for comprehensive Maintenance Contract (CMC) for a period of 5 years after the expiry of period of guarantee/ warranty. The CMC charges should be quoted for labour cost as well as cost of any replacement parts / components that may be required for keeping the equipment functional.

(d) The uptime guarantee of 347 days in a block of 365 days as defined in Para 15 of Annexure -A will also apply to the service contract period, both AMC and CMC whichever the Institute will enter.

(e) It is essential to quote the charges and terms and conditions for the service contract as in Sub Para (b) and (c) above. Tenders not containing service contract charges shall be considered incomplete and shall be rejected. The charges of AMC and CMC will be taken into account while comparing the prices.

(f) The EMD will be returned after completion of tender process to the unsuccessful firms and after receiving the Bank Grantee to the successful firms.

6. TERMS OF FABERICATION (FOR MOBILE DENTAL VAN ONLY SR. NO.

i) Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, P.U. Chandigarh shall provide the chassis for fabrication to the vender **as per**

Options given with the details specification at (ANNEXURE-C)

ii) There shall be a Pre-inspection of the Built up body & final inspection of the Installed accessories before applying to the Transport deptt. for registration.

iii) Registration shall be the sole responsibility of the Vendor, however only formalities requiring paper work shall be done by the Institute.

iv) The approved vender for fabrication of Mobile Dental Van over the chassis provided by the Institute, shall submit a Bank Guarantee in favor of Principal- cum- Professor Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, P.U. to the tune of the cost of the chassis before handing over of the chassis to the vendor.

7. BID GUARANTEE AND SECURITY:

The tenderer is required to furnish Bid Guarantee and Security as per item 5 in Annexure 'A'.

8. CLARIFICATION OF BIDDING DOCUMENTS:

9. A prospective bidder requiring any clarification of the tender documents may notify the purchaser in writing or by telex or cable at the purchaser's mailing address indicated in the invitation for tenders. The purchaser will respond in writing to any request for clarification of the bidding documents which it receives not later than 15 (**Fifteen day**) prior to the deadline for submission of bids prescribed by the purchaser. Written copies of the purchaser's response (*including an explanation of the query but without identifying the source of inquiry*) will be sent to all prospective bidders which have received the bidding documents.

10. AMENDMENT OF BIDDING DOCUMENTS:

10.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

10.2 The amendment will be notified in writing or by telex or cable to all prospective bidders which have received the bidding documents and will be binding on them.

- 10.3 In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bid, the purchaser may, at its discretion, extend the deadline for the submission of bids.
11. TERMS OF PAYMENT
- 11.1 Final payment shall be made after receiving of the Mobile Dental Van and submitting the satisfactory working / installation report duly signed by HOD of concern Deptt., Principal cum Professor of the Institute and registration & physical fitness certification by RTO/ Deptt. of Transport Chandigarh.
- 11.2 Final payment shall be made after receiving of the equipments/ consumable items, as per specification, installation and submitting the satisfactory working report duly verified by the HOD of user Deptt. and principal cum professor of the Institute.
12. DETAILED INSTRUCTIONS FOR SUBMISSION OF TENDER:
- Any effort by a bidder to influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decisions shall result in the rejection of the bidder's bid and also banning of business dealings with the bidder for a period of three years from the date of such ban.
- 12.1 The detailed instructions for the preparation and submission of the tender and the terms and conditions of the tender are given in the enclosed Annexure 'A'. Tenderers must note carefully that any infringement of the specific requirements contained therein may invalidate the tender.
13. This tender form is not transferable.
14. This tender form consists of pages 1 to 39pages. This tender form alongwith covering letter and Annexure should be returned to the Institute alongwith offer letter/Technical Bid.
15. Offers not on the prescribed form shall not be considered.

**The Principal cum Professor,
Dr. Harvansh Singh Judge Institute of
Dental Sciences & Hospital,
Panjab University, Chandigarh.**

ANNEXURE 'A'

INSTRUCTIONS TO TENDERERS AND TERMS AND CONDITIONS OF THE TENDER

1. Only Manufacturers/ authorized fabricators or their Sole Authorized Distributors / Sole Agents are entitled to submit the Proforma Invoices.
2. The tender shall be prepared and submitted as per **Para 27** of this Annexure.
3. A person signing the tender form or any other document forming part of the contract on behalf of another shall be deemed to warranty that he has authority to bind such others and if on enquiry it appears that the person so signing had no authority to do so, the purchaser, may, without prejudice to other civil and criminal remedies against the contract, hold the signatory liable for all costs and damages and forfeit Earnest Money.
 - 3.1 Rates and Service charges should not be quoted in the Technical bid.
 - 3.2 All pages of the Technical Bid/Price Bid shall be page numbered. In case of duplicate copies, separate copies shall be page numbered separately.
 - 3.3 Tenders/Proforma Invoices not accompanied by detailed information as required, are liable to be rejected.
4. **EARNEST MONEY DEPOSIT AND PERFORMANCE BOND / BANK GUARANTEE**
 - a) The tender must be accompanied with Earnest Money as detailed below in a lump sum amount in the form of Demand Draft valid for one year on a scheduled bank/term deposit receipt valid for a period of one year from any scheduled bank in the name of the Principal-cum-Professor, Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Panjab University, Chandigarh. Earnest Money in any other form will not be accepted F.O.R. cost of equipment:
 - Up to Rs.10.00 Lacs: Earnest money: Rs.25,000/-
 - Between Rs.10.00 Lacs to Rs.20.00 Lacs: Earnest money: Rs.40,000/-
 - Between Rs.20.00 Lacs to Rs.50.00 Lacs : Earnest Money Rs.50,000/-
 - Beyond Rs.50.00 Lacs : Earnest money: Rs.1.00 Lac.
 - b) Bids not accompanied by Earnest Money as stated above or less than the amount stipulated above shall be summarily rejected.
 - c) Earnest Money/security deposit/any other sums of the tenderers lying with the Institute in connection with any other tender/case will not be considered against this tender.
 - d) The successful tenderer shall be required to furnish a Contract Performance Guarantee Bond in the shape of Bank Guarantee (as per Annexure E) or FDR/TDR (pledged in favour of The Principal cum professor, Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh along with the undertaking as at Annexure E-I) for an amount equivalent to 10% of the FOB value, or as the case may be, of the Mobile Dental Van /equipment towards the execution of the Agreement and the warranty. The term equipment, wherever used, means the main equipment and the electrical, civil and any other miscellaneous work done in the turnkey project. The Bank Guarantee or FDR/TDR should be valid for 30 months. The Bank Guarantee for 10% of the FOB value shall be submitted within a period of 30 days after the placement of the Supply Order failing which the order will be liable to be cancelled and the earnest money forfeited.

- e) The Institute would return the earnest money mentioned to the successful tendering firm on the submission of the Bank Guarantee, to cover the service contract period after the expiry of guarantee/warranty period of 36 months.
 - f) The successful tenderer will submit Bank Guarantee equivalent to 5% of the FOB value in case of AMC or 10% of the FOB value in case of CMC, as the case may be, to cover the service contract period after the expiry of guarantee/warranty period of 24 months or as indicated in Annexure C or extended period on account of penalty. Bank Guarantee mentioned in Para 5 (g) above will be returned on the receipt of Bank Guarantee indicated in this clause subject to the fulfillment of conditions.
5. The University does not pledge itself to accept the lowest, or any tender, and reserves to itself the right of acceptance of the whole or any part of the tender, or portion of the quantity offered, and the tenderers shall be required to supply the same at the rate quoted. The University reserves to itself the right to accept or reject any or all the tenders without assigning any reason thereof.
 6. Printed or cyclostyled or such terms and conditions of the tendering firms not appearing in the body of the tender will not be considered as forming part of the tender.

CUSTOM CLEARANCE

The equipment requiring import from abroad will be imported under the OGL scheme, for which tenderer will ensure before shipment takes place, that the equipment, in question, can be imported under the said scheme.

- a. The equipment will be got cleared from the Custom by the tenderer at their own cost, demurrage if any will be borne by the tenderer.
- b. It will be the responsibility of the tenderer to pursue and claims with the customs authorities/insurance company/cargo operators and transporters, as may arise, at any stage.
- c. The N.M.I.C. (Not Manufactured in India Certificate) and the CDEC (Custom Duty Exemption Certificate) will be provided by the University.

INSURANCE

7. (i) The Manufacturers/ authorized fabricators or their Sole Authorized Distributors / Sole Agents will ensure that the Mobile Dental Van, equipments and consumable items are properly insured for the full C.I.F. value to cover the transit upto site of installation and the further period of storage etc. upto end of the period of installation as agreed upon. If the installation is delayed beyond the agreed date of satisfactory installation, commissioning and handing over of the equipment, then in that event any transit and storage damages which come to light after such delays, shall be at the risk and cost of the tenderers. The Tenderers/Indian Agent shall provide to the Institute, after due inspection, a detailed list of any loss or damage to the stores that may have occurred so as to enable the purchaser to file appropriate claims with the Insurance company. However it shall be the responsibility of the Institute to prepare, lodge and pursue any claims that may arise with the Insurance Company (ies).. The manufacturers shall provide all assistance in pursuing any such insurance claims expeditiously. The manufacturers shall make free replacement, if required, in lieu of damaged/lost items, etc. regardless of the fact whether the claim is settled by the underwriters or not. The manufacturers' liability shall be restricted to making free replacements/rectifications and any local expenses such as custom duty/clearance, etc. connected with such replacements.

It should be noted that if, in consideration of offer of earlier delivery, the contract is placed with a higher tenderer in preference to the lowest acceptable offer, and in case of failure to complete supplies in terms of such contract within the date of delivery specified and incorporated in the contract, the tenderer will be liable to pay to the Institute the difference between the contract rate and that of the lowest acceptable tender on the basis of the final prices FOB destination including all elements of freight, sales tax, local taxes, duties and other incidentals. This is in addition to and without prejudice to other rights of the Institute to recover all other losses and damages resulting from delayed supplies, cancellation of contract and risk purchases required to be made in case of failure to supply the stores.

GUARANTEE/WARRANTY

The guarantee/warranty against defects of manufacture/ authorized fabricator workmanship and poor quality of components for the entire equipment and the work conducted under the contract shall be for a period of 36 months or as indicated in Annexure –D or extended period on account of penalty starting from the date of satisfactory installation, commissioning and handing over of the equipment at site. The term satisfactory commissioning and handing over wherever used in terms of tender and Agreement will mean satisfactory and faultless functioning of the equipment for 90 days, and of works conducted therewith covered under the contract in working order. During the guarantee/warranty period, the replacement of any part of the equipment or rectification of defects of works will be free of cost. Further, the defective parts/equipment shall be returned by the purchaser to the Indian Agent after making replacement. During the guarantee/warranty period the uptime as defined in Para 15 will be required to be maintained. If the down-time exceeds five consecutive days as defined in Para 15 at any time the guarantee/warranty period will be extended beyond twenty four months to a duration equal to the total of such periods of downtime during the period of warranty.

8. The tenderer will be required to furnish guarantee/warranty as under:
 - (a) The tenderer should submit a written guarantee/warranty from the manufacturers stating that the equipment being offered is the latest model as per specifications and that spares for the equipment will be available for a period of at least 10 years after the guarantee/warranty period. The manufacturer should also warranty/guarantee that it will keep the Institute informed of any up-date of the equipment over a period of next 5 years and undertake to provide the same to the Institute at no extra cost.
 - (b) Guarantee/warranty that they will supply regularly any items of spare parts requisitioned by the purchaser for satisfactory operation of the equipment till the life span, to be decided mutually of the equipment, if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price or an agreed percentage of profit on the landed cost.
 - (c) Guarantee/warranty to the effect that before going out of production of spare parts, the manufacturers and/or tenderers will give adequate advance notice to the purchaser of the equipment so that the later may undertake to procure the balance of the life time requirements of spare parts.
 - (d) The guarantee/warranty to the effect that the manufacturers will make available to the Institute, the blue-prints and drawings of the spare parts if and when required in connection with the equipment.

9. The tenderer shall furnish the following warranty/ guarantee in case the contract is placed to him:-
- (a) The tenderer hereby declares that the goods/stores/articles supplied to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained/mentioned in the clauses here of and the tenderer hereby guarantee/ warranty that the said goods/stores/ articles conform to the description and quality aforesaid. The purchaser will be entitled to reject the said goods/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality. Such rejection of goods/stores/articles will be at the seller's risks and all the provisions herein contained relating to rejection of goods, etc. shall apply. The contractor/seller, shall, if called upon to do so, replace within a period of fourteen days or such further period as may be extended from time to time by the purchaser at his discretion, on an application made thereof by the tenderer, the goods/stores/articles or such portion thereof as rejected by the purchaser. In such an event, the above mentioned warranty/guarantee period of the entire equipment shall be extended by the time taken for these replacements. Otherwise the tenderer shall pay to the purchasers such damage as may arise by reason of breach of the conditions herein contained. Nothing herein contained shall prejudice any other right of the purchaser in that behalf.
 - (b) Tenderers should state categorically whether they have fully trained technical staff for installation/commissioning of the equipment and efficient after sales service.
 - (c) Tenderers should categorically confirm that they will give free "After sales services" during guarantee/ warranty period as stipulated in the Clause 10(i) / Annexure C from the date of installation, satisfactory commissioning and handing over of the project/ equipment. Warranty for a period less than as stipulated in Para 10 (i) or with conditions may render the tender invalid.
 - (d) It is specifically required that the tenderer will supply all the operating and service manuals alongwith blue-prints and drawings including circuit diagrams of the equipment supplied as well as its components.
 - (e) The Tender must be submitted along with copies of:
 - Manufacturers/ fabricator license to quote for this tender.
 - Sales Tax Registration Certificate.
 - (f) Tender Conditions:
 - (i) Company must be ISO certified.
 - (ii) All certificates, pre-conditions and quotations must be submitted in English language only.

MODE OF DESPATCH, DELIVERY AND COMMISSIONING OF EQUIPMENT:

The Mobile Dental Van / equipment with all its accessories should be dispatched duly insured, freight and insurance charges pre-paid. The tenderer is required to undertake to deliver, install, commission and handover the Mobile Dental Van within the stipulated period. The installation of the equipment shall be completed

and handed over, within the time schedule given in the tender. The consumable shall be supplied within 15 days of the order as and when placed and in the quotation ordered. This stipulated period should be strictly adhered to for implementation.

10. CONTRACT:

The successful bidder will be required to enter into an Agreement (please see Annexure 'D') with the Institute on a non-judicial paper of Rs.30.00 for the supply and satisfactory installation of the equipment as defined above as per specifications and terms and conditions listed in the document and agreed upon.

11. The whole system will be operated by the company engineers/experts for 90 days i.e. till satisfactory installation and commissioning as per Clause 10(i).

12. Voltage Stabilizers, Isolation Transformers/U.P.S. systems:

(i) Voltage stabilizers, Isolation Transformer or U.P.S. system, as may be required, should form part of the equipment although separate quotations for the same from indigenous sources shall also be submitted. The voltage range in the Institute varies from 175 - 235. Any defect occurring in the equipment because of the defects in voltage stabilizers, Isolation Transformer or U.P.S. system as the case may be shall be attributable to the suppliers and the cost of repairs and the replacement, if any, shall be borne by the suppliers during the guarantee/warranty period as well as the service contract period.

(ii) If any part of the equipment goes defective on account of inherent fault in the machine or in any component of the equipment and needing replacement shall be replaced by the supplier during the contract period free of cost i.e. to say any defect caused in a part of the machine on account of non-maintenance of the main machine during the contract period shall be attributable to the supplier and the cost of replacement thereof shall be borne by them.

13. PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN:

The tendering firms should keep their offers valid for acceptance for a period of 330 days from the date of opening of the technical bids. If the firms are unable to keep their offers open for the above said period, they should specifically state the period for which their offers would remain open but they must realise that such a provision may result in the rejection of their offers, provided, however, that in the event that the day upto which the offer is to remain open is declared holiday for the Panjab University, Chandigarh the offer shall remain open for the following day.

14. INSPECTION:

INSPECTING AUTHORITY: Principal cum Professor, Dr. Harvansh Singh judge Institute of Dental Sciences & Hospital, Panjab University, and Chandigarh. or any other Authority declared as such by the Institute.

15. Tenderers are required to quote for C.I.F. Dr. Harvansh Singh judge Institute of Dental Sciences & Hospital, Sector-25, P.U. Chandigarh.

16. PACKING AND MARKING: Best trade packing suitable for safe Rail/Road/ shall be used subject to packing and marking being acceptable to the Inspecting Authority.

17. SERVICE CONTRACT.

In addition to quoting for the equipment alongwith its accessories, tenderer must quote for Annual Maintenance Contract (AMC) as well as for Comprehensive Maintenance Contract (CMC) for a period of 5 years for maintaining the equipment at this Institute after the period of warranty or extended as the case may be. During the service contract period the firm shall provide four preventive maintenance visits per year in addition to attending all emergency break down calls. The uptime guarantee of 347 days in a block of 365 days as defined in Para 15 also apply to the service contract period. The AMC and CMC rates will be taken into account while comparing the prices.

- (a) In case of AMC, the charges should be quoted for labour cost only and should not include the cost of any replacement parts/components that may be needing replacement. Thus the charges quoted will be for service only. During the AMC replacement of parts or components that may be needed replacement shall be made available by the Institute at the Institute's own expenses but the firm has to submit the Proforma Invoice for the spares that needs replacement within a period of 4 days failing which the extra period will be counted as down time. During the AMC the time taken by the Institute in providing the spares till the function of the unit will not be calculated as down time but the period of AMC will be extended equivalent to the period the unit remain out of order.
- (b) If the Institute opts to enter CMC during this period the equipment alongwith accessories has to be maintained for 347 days in a block of 365 days as defined in Para 15. However, 5 days time will be allowed to procure the spares in case the same has to be imported and 5 days will not be counted as down time. In case of CMC, the charges should be quoted for labour cost as well as for the cost of any replacement parts / components that may be required for keeping the equipment and accessories functional.
- (c) The rates of the service contract after warranty period for both AMC and CMC must be indicated strictly as below :

	AMC	CMC	
Rate for 1st year	Rs. _____	Rs. _____	}
Rate for 2nd year	Rs. _____	Rs. _____	}
Rate for 3rd year	Rs. _____	Rs. _____	}
units.			for _____
Rate for 4th year	Rs. _____	Rs. _____	}
Rate for 5th year	Rs. _____	Rs. _____	}

NOTE 1: Rates of AMC and CMC are to be quoted in Indian Rupees only as these shall be paid in Indian Rupees only.

NOTE 2: CMC has to be for all parts. The CMC may also include consumable and reagents to the extent indicated in Annexure C. Any conditional offer may render the tender invalid

The charges for the service contract will be paid in 4 equal installments in arrears for satisfactory service or as per mutually agreed upon schedule.

18. JURISDICTION :

The courts at Chandigarh alone will have the jurisdiction to try any matter, dispute or reference between the parties arising out of this Agreement/contract. It is specifically agreed that no court outside and other than Chandigarh court shall have jurisdiction in the matter.

ANNEXURE 'B'

(To be returned, fully complete, with the Technical Bid)

GENERAL QUESTIONNAIRE

- (i) This Annexure must accompany the Technical Bid.
- (ii) The tenderers must give specific answers against each of the following questions.
- (iii) Equivocal or evasive replies will render the tender liable to be ignored.

QUESTIONS :

1. Name and address of manufacture/ fabricators:-
2. Station/Place of manufacturer / fabricators:-
3. Whether the tendering firm is : -
 - i) Manufacturer
 - ii) Authorized fabricator
 - iii) Manufacturer's authorized agents
 - iv) Holders of stock of the stores tendered for.
4. If stores offered are manufactured in India, please state whether all the raw materials, components etc. used in their manufacture are also produced in India. If not, give details of materials, components etc. that are imported and their break-up of the indigenous and imported components together with their value and proportion it bears to the total value of the stores.
5. State whether raw materials are held in stock in India sufficient for the manufacture of the stores.
6. Please state specifically whether the price tendered by you is to the best of your knowledge and belief, not more than the price permissible for you to charge a private purchaser for the same class and description of goods under the provisions of any law for the time being in force and not more than the prices you would charge from other Govt. Depts./Institutions in India. If not, state the reasons as well as the margin of profit included.
7. Please indicate the following: -
 - a) The precise relationship between the foreign manufacturers/ principals and their Indian Agents/Associates.
 - b) The mutual interest which the manufacturer/principals and the Indian Agents/Associates have in the business of each other.
8. Business name and construction of tendering firm. Is the firm registered under :
 - i) The Indian Companies Act, 1956.
 - ii) The Indian Partnership Act, 1932 (please give the name of partner).
 - iii) Any other act.

- iv) If the firm is not registered please give the name (s) and address of the owner(s)
9. (A) Do you agree to various clauses of Para 16 of the Agreement (Annexure D) regarding Arbitration.
- (B) (i) In the case of partnership firms, whether registered under Indian partnership Act, 1932.
- (ii) In case the answer to question at 9(A) by the partnership firms be in the affirmative please state further:-
- (iii) Whether in the partnership Agreement, authority to refer disputes concerning the business of the partnership to arbitration has been conferred on the partner who has signed the tender.
- (iv) If the answer(s) to question 9(B)(iii) is in the negative, whether there is any general power of attorney executed by all the partners of the firm authorizing the partner who has signed the tender to refer disputes concerning business of the partnership to arbitration.
- (C) If the answers to either 9(B)(iii) or 9(B)(iv) is in the affirmative, please, furnish a copy of either the partnership Agreement or the general power of attorney, as the case may be.

Note before (1): Please attach to the technical bid a copy of the Partnership Agreement or the General Power of Attorney on either of which reliance is placed for authority of partner or the partner signing the tender to refer disputes to arbitration. The copy should be attested by a NOTARY PUBLIC or its execution should be admitted by an affidavit drawn on properly stamped paper by all the partners.

10. Indicate clearly the guaranteed delivery/commissioning and handing over period.
11. Please state clearly the period for which your offer will be valid for acceptance beyond the date of opening of the Technical Bids (please see note below):

IMPORTANT NOTE: Tendering firms are requested to keep their offers valid for acceptance for a period of 330 days from the date of opening of the Technical Bids. If the firm is unable to keep its offer open for the specified period of 330 days, then they should specifically state the period for which their offers would remain open but they must realize that such a provision may result in the rejection of their offers.

12. Please furnish the following details:-

Indian Agent

Income Tax

Permanent Account Number:

ANNEXURE 'C'

(To be returned with the Technical Bid)

SPECIFICATION FOR FABRICATION OF MOBILE DENTAL VAN**OPTION-1:**

Fabrication of mobile dental van over a chassis of Swaraj Mazda make, prestige TC – III WT 50, TC-II LWB COWL with wheel base 3940mm and 3455cc , which shall be provided by the university. The job has to be accomplished in all aspects within 2 months from the date of allotment of tender

A. Built-up Body**EXTERIOR BODY SPECIFICATIONS:**

Overall length, width and height of the Body should be in accordance to the permitted length, width and height by the Regional Transport Office of Chandigarh, which would be based on the Chassis Specifications.

INTERIOR BODY AND FLOOR SPECIFICATIONS:

1. Sitting seats /benches for atleast 5 people, desirable more, in passenger compartment. Seats should be made of high density moulded polyurethane foam with head rest.
2. A tank of capacity 200 L should be fiber coated on the inside, lined with FRP coat of 600 Microns with relevant resin coating on top of it along with necessary supply & drain piping along with pump of 0.25 hp. Location of the tank as per design approved.
3. One drain slump of 75 Liters capacity should be provided to contain the waste water from the dental unit as well as the sink.
4. Storage cabinet (metal) One sink, appropriately placed for space saving and have drawers for keeping instruments and should be lockable. It should be adjusted for best space utilization.
5. Luggage storage racks on both sides of the van.
6. Under carriage storage space shall be provided to house the DC battery power pack of one battery & Inverter, air compressor, as well as generator unit (220 Volts).
7. The body of the van should be fabricated from all steel and aluminum material of prime make, like Tata, Jindal, Ispat, Indal or Balco. It should be provided with complete heat & sound insulation packing using glass wool or Polyurethane between the outer & inner panels.
8. There should be appropriate space for installation of 2 dental chairs
9. Canopy on one side – foldable, length and width of 7.5 feet
10. Antistatic, antibacterial flooring with 2mm thickness
11. Exterior artwork and painting of entire vehicle as per university's choice and design
12. Adequate number of electrical points should be provided for 5 Amp and 15 Amp.
13. There should be provision to run dental chairs and other equipments both on generator as well as direct supply from the source.

B. ACCESSORIES: following accessories should be purchased and fitted within the van by the tenderer :

1. It should be installed with air conditioning system (One) of 1 Ton capacity (12250 BTU/Hr.) or its equivalent for cooling and there should be provision for heating as well. A residential grade split air conditioner must NOT be used in the vehicle.

2. TV and DVD player (1 NO each) - a 26 inch LCD TV along with same company DVD player for compatibility issues should be fitted in the van.
3. Alternating Current generator – of 220 Volts, minimum 6.8 Kva of Honda company or its best equivalent shall be installed in the rear of the van. It should be powerful enough to take load of 4KVA 220 volts alternator & compressor. It should be housed in undercarriage and should have provision to pull it out on strong channels when required for use.
4. Public address system - One public address amplifier along with a cone speaker & microphone, battery operated.
5. One stabilizer -4 KV
6. One oxygen cylinder portable for medical use.
7. Wall Mounted two Fans and one Exhaust
8. Music system with speakers. CD player and FM facility
9. Extra fuel tank-20 litres for storing fuel for generator
10. One Carbon dioxide Gas and one Dry Chemical Powder fire extinguishers should be supplied with the van
11. First Aid Box -1

DENTAL ITEMS: the following items shall be purchased and installed by the tenderer

1. Compressor (1 no.) – it should be Oil-free, Medical grade Mono-bloc of 1 - 1.25HP power,
2. Intra oral X-ray machine (1 no) – with following specifications:
 - Scissor pantographic Arm with both options of Wall Mounting / Floor Mounting
 - Automatic timers 0.02 to 3.0 seconds
 - Tube head to be lead coated.
 - 70kVp, 8mA
 - Focal spot less than or equal to 0.8 mm fine focus Italian tube inside Total filtration > 2 mm (AI equivalent)
 - Cordless Remote Exposure switch
 - Separate buttons for RVG & IOPA Uses.
 - User interface small LCD window operation.
 - Target Angle 18 - 20
 - Automatic time set for child, adult mode
 - Manual time set should also be available
 - Should be Suitable for Digital Sensor and IOPA films
 - Line Voltage 115 V or 60 Hz or 230 V, 50 Hz
 - Extended Warranty Required and provision of AMC.
3. Dental chair units -2 no. with following specifications- electronically operated with spittoon attachment , halogen light with 2 intensity, air ventury suction, airrotor, micromotor, 3 way syringe , light cure, ultrasonic scaler, x-ray viewer, instrument tray, operating stool, chair of make –confident, mookambika model or its best equivalent

Specifications of accessories with each chair:
4. Air rotor(1no.) - Ultrapush hand piece with quick change coupling & tubing with the non-retraction valve built in, to prevent flow of saliva into tubing & infection control. Airotor Hand-piece having a speed of 4,00,000 RPM , clean head of NSK, KAVO or its best equivalent make
5. Micromotor (1no.)- Speed range 1000-40,000 RPM. Should be Supplied with Contrangle Hand piece of NSK, KAVO or its best equivalent make
6. Ultrasonic Scaler (1no.)- It should be piezotronic Scalar 30 Khz frequency. Autoclavable Hand piece total control is micro processed based control unit. The

scalar should be supplied with 3 tips, two scaling tips and one special tip for perio. Should be of EMS make or its best equivalent

7. Light cure unit (1 no.)- it should be light weight portable cordless light cure unit using LED as light source, have a Built in radiometer with Extra long life time > 20,000 hours and Optical focusing. Should have Autoclavable fibreglass light-guide of 3-13 mm (different tip sizes) High performance lithium ion battery with a shorter charging time , Wavelength range 420-450 nm, should be of Coltene, Dentsply or ivoclar company or its equivalent.
8. Manual x ray developer-1
9. One autoclave having wet and dry cycle, table top and front loading which can achieve temperature of 135 C with minimum capacity of 20 litres. It should be supplied with accessories like tray stand-1, trays-3 and bin-1no.
10. Glass bead sterilizer-1: should be portable, easy to handle with low electricity consumption. On reaching 215 C indicator light should be on and unit should be made of high quality glass to withstand such temperature.

SPECIFICATION FOR FABRICATION OF MOBILE DENTAL VAN

OPTION-2:

Fabrication of mobile dental van BODY ONLY over a chassis of Swaraj Mazda make, prestige TC – III WT 50, TC-II LWB COWL with wheel base 3940mm and 3455cc , which shall be provided by the university. The job has to be accomplished in all aspects within 2 months from the date of allotment of tender

Built-up Body

EXTERIOR BODY SPECIFICATIONS:

Overall length, width and height of the Body should be in accordance to the permitted length, width and height by the Regional Transport Office of Chandigarh, which would be based on the Chassis Specifications.

INTERIOR BODY AND FLOOR SPECIFICATIONS:

1. Sitting seats /benches for atleast 5 people, desirable more in passenger compartment. Seats should be made of high density moulded polyurethane foam with head rest.
2. A tank of capacity 200 L should be fiber coated on the inside, lined with FRP coat of 600 Microns with relevant resin coating on top of it along with necessary supply & drain piping along with pump of 0.25 hp. Location of the tank as per design approved.
3. One drain slump of 75 Liters capacity should be provided to contain the waste water from the dental unit as well as the sink.
4. Storage cabinet (metal) One sink, appropriately placed for space saving and have drawers for keeping instruments and should be lockable. It should be adjusted for best space utilization.
5. Luggage storage racks on both sides of the van.
6. Under carriage storage space shall be provided to house the DC battery power pack of one battery & Inverter, air compressor, as well as generator unit (220 Volts).
7. The body of the van should be fabricated from all steel and aluminum material of prime make, like Tata, Jindal, Ispat, Indal or Balco. It should be provided with complete heat & sound insulation packing using glass wool or Polyurethane between the outer & inner panels.
8. There should be appropriate space for installation of 2 dental chairs
9. Canopy on one side – foldable, length and width of 7.5 feet
10. Antistatic, antibacterial flooring with 2mm thickness
11. Exterior artwork and painting of entire vehicle as per university's choice and design
12. Adequate number of electrical points should be provided for 5 Amp and 15 Amp.
13. There should be provision to run dental chairs and other equipments both on generator as well as direct supply from the source.

ACCESSORIES: following accessories should be purchased and fitted within the van by the tenderer :

1. It should be installed with air conditioning system (One) of 1 Ton capacity (12250 BTU/Hr.) or its equivalent for cooling and there should be provision for heating as well. A residential grade split air conditioner must NOT be used in the vehicle.
2. TV and DVD player (1 NO each) - a 26 inch LCD TV along with same company DVD player for compatibility issues should be fitted in the van.
3. Alternating Current generator – of 220 Volts, minimum 6.8 Kva of Honda company or its best equivalent shall be installed in the rear of the van. It should be powerful enough to take load of 4KVA 220 volts alternator & compressor. It

should be housed in undercarriage and should have provision to pull it out on strong channels when required for use.

4. Public address system - One public address amplifier along with a cone speaker & microphone, battery operated.
5. One stabilizer -4 KV
6. One oxygen cylinder portable for medical use.
7. Wall Mounted two Fans and one Exhaust
8. Music system with speakers. CD player and FM facility
9. Extra fuel tank-20 litres for storing fuel for generator
10. One Carbon dioxide Gas and one Dry Chemical Powder fire extinguishers should be supplied with the van
11. First Aid Box -1

DENTAL ITEMS: the following items shall be provided by the institute and shall be installed by the tenderer-

1. Compressor (1 no.) – it should be Oil-free, Medical grade Mono-bloc of 1 - 1.25HP power,
2. Intra oral X-ray machine (1 no) – with following specifications:
 - Scissor pantographic Arm with both options of Wall Mounting / Floor Mounting
 - Automatic timers 0.02 to 3.0 seconds
 - Tube head to be lead coated.
 - 70kVp, 8mA
 - Focal spot less than or equal to 0.8 mm fine focus Italian tube inside Total filtration > 2 mm (AI equivalent)
 - Cordless Remote Exposure switch
 - Separate buttons for RVG & IOPA Uses.
 - User interface small LCD window operation.
 - Target Angle 18 - 20
 - Automatic time set for child, adult mode
 - Manual time set should also be available
 - Should be Suitable for Digital Sensor and IOPA films
 - Line Voltage 115 V or 60 Hz or 230 V, 50 Hz
 - Extended Warranty Required and provision of AMC.
3. Dental chair units -2 no. with following specifications- electronically operated with spittoon attachment , halogen light with 2 intensity, air ventury suction, airrotor, micromotor, 3 way syringe , light cure, ultrasonic scaler, x-ray viewer, instrument tray, operating stool, chair of make –confident, mookambika model or its best equivalent

Specifications of accessories with EACH chair:

- A. Air rotor(1no.) - Ultrapush hand piece with quick change coupling & tubing with the non-retraction valve built in, to prevent flow of saliva into tubing & infection control. Airotor Hand-piece having a speed of 4,00,000 RPM , clean head of NSK, KAVO or its best equivalent make
- B. Micromotor(1no.)- Speed range 1000-40,000 RPM. Should be Supplied with Contrangle Hand piece of NSK, KAVO or its best equivalent make
- C. Ultrasonic Scaler (1no.)- It should be piezotronic Scalar 30 Khz frequency. Autoclavable Hand piece total control is micro processed based control unit. The scalar should be supplied with 3 tips, two scaling tips and one special tip for perio. Should be of EMS make or its best equivalent
- D. Light cure unit (1 no.)- it should be light weight portable cordless light cure unit using LED as light source, have a Built in radiometer with Extra long life time > 20,000 hours and Optical focusing. Should have Autoclavable

fibreglass light-guide of 3-13 mm (different tip sizes) High performance lithium ion battery with a shorter charging time , Wavelength range 420-450 nm, should be of Coltene, Dentsply or Ivoclar company or its equivalent.

E. Manual x ray developer-1

F. One autoclave having wet and dry cycle, table top and front loading which can achieve temperature of 135 C with minimum capacity of 20 litres. It should be supplied with accessories like tray stand-1, trays-3 and bin-1no.

G. Glass bead sterilizer-1: should be portable, easy to handle with low electricity consumption. On reaching 215 C indicator light should be on and unit should be made of high quality glass to withstand such temperature.

SPECIFICATION FOR FABRICATION OF MOBILE DENTAL VAN

OPTION-3

Fabrication of mobile dental van over a suitable chassis of more than 4800mm wheel base and atleast 2500mm in width, which shall be provided by the university. The job has to be accomplished in all aspects within 2 months from the date of allotment of tender.

A.Built-up Body

EXTERIOR BODY SPECIFICATIONS:

Overall length, width and height of the Body should be in accordance to the permitted length, width and height by the Regional Transport Office of Chandigarh, which would be based on the Chassis Specifications.

INTERIOR BODY AND FLOOR SPECIFICATIONS:

1. Sitting seats /benches for atleast 8-10 people in passenger compartment. Seats should be made of high density moulded polyurethane foam with head rest.
2. An extendable platform with steps & railing at the entrance door of the dental operatory compartment.
3. A tank of capacity 200 L should be fiber coated on the inside, lined with FRP coat of 600 Microns with relevant resin coating on top of it along with necessary supply & drain piping along with pump of 0.25 hp. Location of the tank as per design approved.
4. One drain slump of 75 Liters capacity should be provided to contain the waste water from the dental unit as well as the sink.
5. Storage cabinet (metal) with One sink, appropriately placed for space saving and have drawers for keeping instruments and should be lockable. It should be adjusted for best space utilization.
6. Luggage storage racks on both sides of the van.
7. Under carriage storage space shall be provided to house the DC battery power pack of one battery & Inverter, air compressor, as well as generator unit (220 Volts).
8. The body of the van should be fabricated from all steel and aluminum material of prime make, like Tata, Jindal, Ispat, Indal or Balco. It should be provided with complete heat & sound insulation packing using glass wool or Polyurethane between the outer & inner panels.
9. There should be appropriate space for installation of 2 dental chairs
10. Canopy on one side – foldable, length and width of 7.5 feet
11. Antistatic, antibacterial flooring with 2mm thickness
12. Exterior artwork and painting of entire vehicle as per university's choice and design
13. Adequate number of electrical points should be provided for 5 Amp and 15 Amp.
14. There should be provision to run dental chairs and other equipments both on generator as well as direct supply from the source.

B.ACCESSORIES: following accessories should be purchased and fitted within the van by the tenderer:

1. It should be installed with air conditioning system (One) of 1 Ton capacity (12250 BTU/Hr.) or its equivalent for cooling and there should be provision for heating as well. A residential grade split air conditioner must NOT be used in the vehicle.
2. TV and DVD player (1 NO each) - a 26 inch LCD TV along with same company DVD player for compatibility issues should be fitted in the van.
3. Alternating Current generator – of 220 Volts, minimum 6.8 Kva of Honda company or its best equivalent shall be installed in the rear of the van. It should be powerful enough to take load of 4KVA 220 volts alternator & compressor. It

should be housed in undercarriage and should have provision to pull it out on strong channels when required for use.

4. Public address system - One public address amplifier along with a cone speaker & microphone, battery operated.
5. One stabilizer -4 KV
6. One oxygen cylinder portable for medical use.
7. Wall Mounted two Fans and one Exhaust
8. Music system with speakers. CD player and FM facility
9. Extra fuel tank-20 litres for storing fuel for generator
10. One Carbon dioxide Gas and one Dry Chemical Powder fire extinguishers should be supplied with the van
11. First Aid Box -1

C.DENTAL ITEMS: the following items shall be purchased and installed by the tenderer-

1. Compressor (1 no.) – it should be Oil-free, Medical grade Mono-bloc of 1 - 1.25HP power,
2. Intra oral X-ray machine (1 no) – with following specifications:
 - Scissor pantographic Arm with both options of Wall Mounting / Floor Mounting
 - Automatic timers 0.02 to 3.0 seconds
 - Tube head to be lead coated.
 - 70kVp, 8mA
 - Focal spot less than or equal to 0.8 mm fine focus Italian tube inside Total filtration > 2 mm (AI equivalent)
 - Cordless Remote Exposure switch
 - Separate buttons for RVG & IOPA Uses.
 - User interface small LCD window operation.
 - Target Angle 18 - 20
 - Automatic time set for child, adult mode
 - Manual time set should also be available
 - Should be Suitable for Digital Sensor and IOPA films
 - Line Voltage 115 V or 60 Hz or 230 V, 50 Hz
 - Extended Warranty Required and provision of AMC.
3. Dental chair units -2 no. with following specifications- electronically operated with spittoon attachment , halogen light with 2 intensity, air ventury suction, airrotor, micromotor, 3 way syringe , light cure, ultrasonic scaler, x-ray viewer, instrument tray, operating stool, chair of make –confident, mookambika model or its best equivalent

Specifications of accessories with EACH chair:

- A. Air rotor(1no.) - Ultrapush hand piece with quick change coupling & tubing with the non-retraction valve built in, to prevent flow of saliva into tubing & infection control. Airotor Hand-piece having a speed of 4,00,000 RPM , clean head of NSK, KAVO or its best equivalent make
- B. Micromotor (1no.)- Speed range 1000-40,000 RPM. Should be Supplied with Contrangle Hand piece of NSK, KAVO or its best equivalent make
- C. Ultrasonic Scaler (1no.)- It should be piezotronic Scalar 30 Khz frequency. Autoclavable Hand piece total control is micro processed based control unit. The scalar should be supplied with 3 tips, two scaling tips and one special tip for perio. Should be of EMS make or its best equivalent
- D. Light cure unit (1 no.)- it should be light weight portable cordless light cure unit using LED as light source, have a Built in radiometer with Extra long life time > 20,000 hours and Optical focusing. Should have Autoclavable fibreglass light-guide of 3-13 mm (different tip sizes) High performance lithium ion battery with

a shorter charging time , Wavelength range 420-450 nm, should be of Coltene, Dentsply or Ivoclar company or its equivalent.

- E. Manual x ray developer-1
- F. One autoclave having wet and dry cycle, table top and front loading which can achieve temperature of 135 C with minimum capacity of 20 litres. It should be supplied with accessories like tray stand-1, trays-3 and bin-1no.
- G. Glass bead sterilizer-1: should be portable, easy to handle with low electricity consumption. On reaching 215 C indicator light should be on and unit should be made of high quality glass to withstand such temperature.

SPECIFICATION FOR FABRICATION OF MOBILE DENTAL VAN

OPTION-4:

Fabrication of mobile dental van **BODY ONLY** over a suitable chassis of more than 4800mm wheel base and atleast 2500mm in width, which shall be provided by the university. The job has to be accomplished in all aspects within 2 months from the date of allotment of tender.

A. Built-up Body

EXTERIOR BODY SPECIFICATIONS:

Overall length, width and height of the Body should be in accordance to the permitted length, width and height by the Regional Transport Office of Chandigarh, which would be based on the Chassis Specifications.

INTERIOR BODY AND FLOOR SPECIFICATIONS:

1. Sitting seats /benches for atleast 8-10 people in passenger compartment. Seats should be made of high density moulded polyurethane foam with head rest.
2. An extendable platform with steps & railing at the entrance door of the dental operatory compartment.
3. A tank of capacity 200 L should be fiber coated on the inside, lined with FRP coat of 600 Microns with relevant resin coating on top of it along with necessary supply & drain piping along with pump of 0.25 hp. Location of the tank as per design approved.
4. One drain slump of 75 Liters capacity should be provided to contain the waste water from the dental unit as well as the sink.
5. Storage cabinet (metal) One sink, appropriately placed for space saving and have drawers for keeping instruments and should be lockable. It should be adjusted for best space utilization.
6. Luggage storage racks on both sides of the van.
7. Under carriage storage space shall be provided to house the DC battery power pack of one battery & Inverter, air compressor, as well as generator unit (220 Volts).
8. The body of the van should be fabricated from all steel and aluminum material of prime make, like Tata, Jindal, Ispat, Indal or Balco. It should be provided with complete heat & sound insulation packing using glass wool or Polyurethane between the outer & inner panels.
9. There should be appropriate space for installation of 2 dental chairs
10. Canopy on one side – foldable, length and width of 7.5 feet
11. Antistatic, antibacterial flooring with 2mm thickness
12. Exterior artwork and painting of entire vehicle as per university's choice and design
13. Adequate number of electrical points should be provided for 5 Amp and 15 Amp.
14. There should be provision to run dental chairs and other equipments both on generator as well as direct supply from the source.

B. ACCESSORIES: following accessories should be purchased and fitted within the van by the tenderer :

1. It should be installed with air conditioning system (One) of 1 Ton capacity (12250 BTU/Hr.) or its equivalent for cooling and there should be provision for heating as well. A residential grade split air conditioner must NOT be used in the vehicle.
2. TV and DVD player (1 NO each) - a 26 inch LCD TV along with same company DVD player for compatibility issues should be fitted in the van.
3. Alternating Current generator – of 220 Volts, minimum 6.8 Kva of Honda company or its best equivalent shall be installed in the rear of the van. It should be powerful enough to take load of 4KVA 220 volts alternator & compressor. It

should be housed in undercarriage and should have provision to pull it out on strong channels when required for use.

4. Public address system - One public address amplifier along with a cone speaker & microphone, battery operated.
5. One stabilizer -4 KV
6. One oxygen cylinder portable for medical use.
7. Wall Mounted two Fans and one Exhaust
8. Music system with speakers. CD player and FM facility
9. Extra fuel tank-20 litres for storing fuel for generator
10. One Carbon dioxide Gas and one Dry Chemical Powder fire extinguishers should be supplied with the van
11. First Aid Box -1

DENTAL ITEMS: the following items shall be provided by the institute and shall be installed by the tenderer-

1. Compressor (1 no.) – it should be Oil-free, Medical grade Mono-bloc of 1 - 1.25HP power,
2. Intra oral X-ray machine (1 no) – with following specifications:
 - Scissor pantographic Arm with both options of Wall Mounting / Floor Mounting
 - Automatic timers 0.02 to 3.0 seconds
 - Tube head to be lead coated.
 - 70kVp, 8mA
 - Focal spot less than or equal to 0.8 mm fine focus Italian tube inside Total filtration > 2 mm (AI equivalent)
 - Cordless Remote Exposure switch
 - Separate buttons for RVG & IOPA Uses.
 - User interface small LCD window operation.
 - Target Angle 18 - 20
 - Automatic time set for child, adult mode
 - Manual time set should also be available
 - Should be Suitable for Digital Sensor and IOPA films
 - Line Voltage 115 V or 60 Hz or 230 V, 50 Hz
 - Extended Warranty Required and provision of AMC.
3. Dental chair units -2 no. with following specifications- electronically operated with spittoon attachment , halogen light with 2 intensity, air ventury suction, airrotor, micromotor, 3 way syringe , light cure, ultrasonic scaler, x-ray viewer, instrument tray, operating stool, chair of make –confident, mookambika model or its best equivalent

Specifications of accessories with EACH chair:

- H. Air rotor(1no.) - Ultrapush hand piece with quick change coupling & tubing with the non-retraction valve built in, to prevent flow of saliva into tubing & infection control. Airotor Hand-piece having a speed of 4,00,000 RPM , clean head of NSK, KAVO or its best equivalent make
- I. Micromotor (1no.)- Speed range 1000-40,000 RPM. Should be Supplied with Contrangle Hand piece of NSK, KAVO or its best equivalent make
- J. Ultrasonic Scaler (1no.)- It should be piezotronic Scalar 30 Khz frequency. Autoclavable Hand piece total control is micro processed based control unit. The scalar should be supplied with 3 tips, two scaling tips and one special tip for perio. Should be of EMS make or its best equivalent
- K. Light cure unit (1 no.)- it should be light weight portable cordless light cure unit using LED as light source, have a Built in radiometer with Extra long life time > 20,000 hours and Optical focusing. Should have Autoclavable fibreglass light-guide of 3-13 mm (different tip sizes) High performance

lithium ion battery with a shorter charging time , Wavelength range 420-450 nm, should be of Coltene, Dentsply or Ivoclar company or its equivalent.

- L. Manual x ray developer-1
- M. One autoclave having wet and dry cycle, table top and front loading which can achieve temperature of 135 C with minimum capacity of 20 litres. It should be supplied with accessories like tray stand-1, trays-3 and bin-1no.
- N. Glass bead sterilizer-1: should be portable, easy to handle with low electricity consumption. On reaching 215 C indicator light should be on and unit should be made of high quality glass to withstand such temperature.

S no	Item	Specification	Quantity
2	HYDRO-SOLDERING AND WELDING UNIT	<p>The unit should be able to generate high quality oxy-hydrogen fuel for an extremely hot and precise reducing flame, perfect for soldering and brazing in the orthodontic laboratory environment.</p> <p>The unit should have two separate power stages: One for extensive soldering with gas production of 70-80 litres per hour and the other one for precise soldering work with gas production of 30-40 litres per hour. The mains connection voltage: 230 volts, 50 Hz.</p> <p>The switches should be provided on the front panel of the unit and the unit should have separate work pressure switch and a separate safety pressure switch. Unit should be fitted with pressure gauge to indicate actual gas pressure. Unit should be electronically controlled.</p> <p>The micro torch should have adjustable flow control and changeable nozzles for precise control of the flame and temperature activated auto gas cut off for safety.</p> <p>The unit should include the following:</p> <p>Torch with nozzle and hand piece with flow adjustment.</p> <p>Gas tube</p> <p>Electrolyte solution</p> <p>Lighter for starting flame</p> <p>Stand for the torch</p>	1
3	Light cure unit	<p>Light weight portable and cordless curing unit using LED as light source</p> <p>Built in radiometer /with separate radiometer</p> <p>Autoclavable fibre glass light guide</p> <p>Should have broad band LEDs covering 390-510nm wavelength range</p> <p>Should have 3-4 curing modes with different light intensity and timer</p> <p>High performance lithium ion battery with a shorter charging time</p> <p>Light intensity -1500mw/sq.cm at regular mode and >1500 mw/sq.cm at hyper mode</p> <p>Possibility of start and stop of emission of light at any moment</p> <p>Protection from over heating</p> <p>Make 3m/dentsply/vivadent or equivalent</p>	8
4	Computer With All Accessories	<p>PC OEM with Windows 7</p> <p>Intel Core i7 processor</p> <p>2GB or higher RAM</p> <p>200 GB or higher hard drive</p> <p>Resolution: 1024x768 at 24-bit colour</p> <p>15" or higher monitor</p> <p>Virus protection coverage</p> <p>DVD-ROM Drive-required</p> <p>Laser printer</p> <p>UPS 620 VA</p> <p>Make DELL or HP or equivalent</p>	4
5	Computer With All Accessories And Software For Orthodontic Image Manipulation (COMPUTER SOFTWARE FOR CEPHALOMETRICS)	<p>PC OEM with Windows 7</p> <p>Intel Core i7 processor</p> <p>2GB or higher RAM</p> <p>200 GB or higher hard drive</p> <p>Resolution: 1024x768 at 24-bit colour</p> <p>15" or higher monitor</p> <p>Virus protection coverage</p> <p>DVD-ROM Drive-required</p> <p>Laser printer</p> <p>UPS 620 VA</p> <p>Make DELL or HP or equivalent</p> <p>TECHNICAL SPECIFICATIONS OF ORTHODONTIC TRACING SOFTWARE:</p>	1

		Provisions for complete lateral/frontal/cast analysis with linear and angular measurements	
		Provisions for customization of own ceph analysis,new points, planes etc	
		Provisions for creation of movies of intra oral photographs	
		Provisions to demonstrate pre and post treatment plans	
		Provisions for high precision, advanced zoom, and should have image enhancement technology including colourisation	
		Provisions for precise superimposition of photograph over tracing	
		Provisions for precise superimposition of any number of tracing over tracing with provision of changing color of each tracing	
		Provisions to allow image export to other applications including power point,word,email,etc	
		Provisions to complete patient record facility and archival facility	
		Provisions to demonstrate different profile photographic views with gradual changes at different stages	
		Able to exchange patient data from one computer to other	
		Provisions for creating different treatment plans for the same patient in the same series	
		Upgradable to 3D any time in future(at additional cost)	
		Not controlled through internet	
		Able to work independently with multiple computers at the same time	
6	Scanner with transparency adapter	Provision to scan photos and Extra oral and intra oral x-rays(Lateral Cephalogram,PA Views(8"x10") and OPG(6"x12") sizes)	1
		Provision to scan multiple photos at the same time	
		Easy to use	
		Able to scan pictures and x-rays without distortion	
		Windows/Mac compatible	
		4800x9600 dpi resolution	
		48-bit or more resolution	
		Provision to copy, scan, scan to email, scan to PDF	
7	X-ray viewers	Wall or desk mount	12
		Viewing area 15'' x 18''	
		Light weight	
		Flicker free illumination	
		2 tube lights for illumination	
8	ORTHODONTIC IMPRESSION TRAYS	AUTOCLAVEABLE HIGH QUALITY STAINLESS STEEL HIGH RIM	4 sets
		ANATOMICALLY CONTOURED PERFORATED ORTHODONTIC IMPRESSION TRAYS	
		EACH SET SHOULD HAVE TRAYS OF XL, S, M,L,XL,XXL SIZES	
9	A) TYPODONT WITH FULL TEETH SET	Should be compact and with fully functional movements Having Provision For Fitting Metal/Acrylic Teeth And Wax Forms In Different Mal-Occlusions For Orthodontic Training	6
	B) ORTHODONTIC TYPODONT METAL TEETH	Teeth Must Be Well Casted And Well Furnished To Simulate The Normal Anatomy Of Human Dentition With Roots With Provision For Banding And / Or Bonding Various Orthodontic Brackets/Molar Tubes Or Other Attachments	06 SETS OF (28 Nos.) EACH
	C) ORTHODONTIC TYPODONT ACRYLIC/PLASTIC TEETH	Teeth Must Be Well Carved And Well Furnished To Simulate The Normal Anatomy Of Human Dentition With Roots With Provision For Banding And/Or Bonding Various Orthodontic Brackets/Molar Tubes Or Other Attachments	06 SETS OF (28 Nos.)

			EACH
10	Orthodontic bracket conditioner/polisher	Provision to Polish arch wires, recondition bands Provision to clean loose bands, polish retainer clasps Provision to activate new bands, clean loose brackets, and clean soldering flux Easy to use and easy to install	1
11	Chair side Sandblaster	Fully autoclavable Featherweight Aluminium head and body Easy to use for both right and left hand users Easy to attach and disconnect Easy to use in hard to reach areas with intra oral use	1
12	Endosonic handpiece	It should be a Piezo Electric Ultrasonic System. It should be able to perform Ultrasonics and Microsonics for Endodontics and Restorative Dentistry. Can be used for removing obstructions including calcification of pulp chamber or root canals. Kit should contain Handpiece ,Endodontic Tips , Microsurgical Tips and Post Removal Tip.	2
13	Mechanized rotary instruments system	Mechanized rotary instruments system Quantity required – 1 Endomotor should be able to work in continuous rotation as well as reciprocating motion. Should be versatile and allow various rotary instruments usage. Various programs for individual settings in continuous rotation	1
14	Mechanized rotary instruments system	Motor handpiece and contra angle (mini contra head with reduction :16:1 or 20:1) It should be light weight for easy endodontic access and design to minimize fatigue and fingertip stress. Automatic safety features – foot start/ stop, torque reverse, torque slow down, apical reverse, apical slowdown. Foot switch for easy operation to use the micromotor/endomotor for root canal preparation. Flexibility of various speed settings . Tubing for micromotor	2
15	Autoclave for hand piece sterilization	Table Top autoclave specially designed to clean atleast 6 dental instruments (hand-pieces & turbines), internally and externally, lubricate & sterilize at a time. Should have provision of pulse wash with cold water & final wash with hot water to effectively remove dirt & bio-film from the hand-pieces. It should have closed-system lubrication process to prevent release of oil fumes in the clinic during the process. Should work on back-flush mechanism ensuring that saturated steam is forced through the instruments thereby thoroughly sterilizing the internal channels as well as external parts of the instruments. It should have four-user selectable sterilization processes: 134°C – 3 min. sterilization (standard program) 134°C – 3 min. sterilization (wrapped program) 134°C – 18 min. sterilization 121°C – 15 min. sterilization	2

		Should have in-built water tank, drainage tank & oil can.	
		Should have built-in water conductivity sensor with automatic alarm to signal deteriorating water quality.	
		Unit must be CE Certified.	
		Please offer suitable compressor. (quote as optional)	
		Essential Accessories:	
		Adaptors for various hand-pieces, please mention list.	
		Oil Can	
16	Apex locators	Ratio based	2
		Accurate measurement	
		No zero adjustment	
		Automatic calibration	
		Large colour LCD display	
		Provision for attachment to endodontic motor	
17	Equipment for injectable thermoplasticized gutta percha	SuperEndo Alpha for warm vertical condensation	1
		SuperEndo Beta for backfill	
		Accessories	
18	Equipment for injectable thermoplasticized gutta percha	OBTURA THERMO PLASTICISED GUTTA PURCHA OBTURATION DEVICE WITH STANDARD ACCESSORIES INCLUDING :	1
		2 sets of Obtura condensers	
		5 pack of needles	
		3 packs of gutta percha	
		Cleaning solution and cleaning brushes	
19	Pressurized local anesthesia system	computer-controlled local anesthesia delivery consisting of computer-controlled drive unit and a separate single-use disposable handpiece/needle assembly	2
20	Surgical endo kit	Please mention the prices of individual instruments and the collective price of all the instruments separately	1
		RFTSR Straight steiglitz post and point removal forceps	
		RF90 steiglitz post and point removal	
		RF45 steiglitz post and point removal	
		CC7 Chandler Bibevel bone chisel	
		BF12 Howard bone file	
		CRWI Small weider cheek and tongue retractor	
		and right Cryer elevator small left	
		Apexo elevator	
		Ewjs Straight and curved warwick-James elevator	
		GPHF Hufriedy gauze packer	
		H4 and H3 Straight and curved Halsted Mosquito hemostat	
		NHW Webster needle holder	
		Osteotome	
		P149 Periosteal	
		P9A Allen periosteal	
		PT1 AND PT2 Posterior and anterior periotome	

		SR1	Surgical retractor	
		R1	Hufriedy rongeurs	
		R4	Cleveland Rongeurs	
		E9L	root tip pick	
		S scissors	Straight and curved iris	
		CL85 all sizes	Lucas surgical curette	
		CM10 sizes	miller surgical curette all	
		MAR-AAC1 plugger	Abou Rass apical	
		MAR-C1 excavator	Abou Rass endodontic	
		MAR-SAC1 apical plugger	Abou Rass straight	
		MAR-SC1-SC2 surgical curette all sizes	Abou Rass endodontic	
		MEX1	Apical explorer	
		PLGR F1-F2 plugger	Retro filling endodontic	
		RCP11A endodontic plugger	Anterior and posterior	
21	Endodontic microsurgical kit	Please mention the prices of individual instruments and the collective price of all the instruments separately Comprising of Examination & Diagnostic, Soft Tissue Management & Tissue Elevation, Curettage & Debridement and Scissors		2
22	Torque control hand pieces	1:64 gear reduction hand piece NSK/ Anthogyr/Better		2
23	Hu freidy set of hand instruments	CP30/31	Angle Former	2
		CVTCA/B carbide carver	Anatomical tungsten	
		CVTCC/D tungsten carbide carver	Cleoid-Discoid	
		TNCFIR/L contouring XTS Composite Instrument	Right/left composite	
		TNCFIS/M contactforming XTS composite instrument	small /medium	
		EXCE2 15-9-15	E2 Excavator –DE	
		EXCE3 15	E3 Excavator 25-9-15	
		GCPCSI1NS cord packer	CS11 serrated gingival	
		KU0330 retactor	Kincheloe gingival	
		GRM1 Gingival retractor	Meinershagen	
		Gf10 chisel	Wedelstaedt gold foil	
		GF11 trimmer	Gold foil margin	
		GF16	gold foil hatchet	
		GF20	Gold foil condenser	
		GF34	Gold foil knife	
		GF2S	Gold foil knife	
		PICH	calcium hydroxide	

		placement instrument	
		AC520 Amalgam Carrier	Regular/Mini CFII
		AF1/41/4 Amalgam File	Wedelstaedt
		PLG1/21/2	Black Condenser
			Hollenback Plugger
			Eames condenser
		BB2DE burnisher	Double end
		BB186	Burnisher
		CVWR1	Ward carver
		3c1030	hollen back carver
		CP 30/31 carver	IPC interproximal
		3G2605 19/20 ALL SIDE	Marginal trimmer
		CP11/12 CHISEL	BINANGLE
		CP13/14	Hatchet
		CP ½	Wedelstaedt chisel
		CP14	Off angle hatchet
		Cp19	bibevel hoe
		Cp20	Hoe
24	Plaster Dispenser	A built-in dispensing mechanism	4
		Outside and inside body made of Stainless steel	
		Digital electronic timer	
		High accuracy.	
		Ergonomic design.	
		Capacity 10 Kg	
25	Heavy Duty Lathe	300 - 4,000 RPM speed range	6
		Constant torque through the entire speed range	
		Quick-change chuck which can be easily mounted	
		Standard dental taper shafts with chuck removers that will accommodate all types of chucks	
		Industrial grade, sealed ball bearings never need lubrication	
		Base may be bench mounted	
26	Lab Micromotor	It should have feature of easy changeable to knee control or desktop style.	9
		Should have display for showing error code & also with the feature of auto-cruise function to fix the rotation speed during work with foot switch.	
		Should have dual control like brushless and brush motor.	
		Speed should be 1000~50,000 rpm with low noise & low vibration.	
		Maximum torque should be of 7.8 ncm	
		Marathon, Kavo, NSK or equivalent	
27	Model Trimmer with carborandum disc dry type	It should be heavy duty model	5
	Please quote the price separately with or without suction	The unit should be provided with carborandum disc of 10-12".	
		The unit should be finished, inside and out, with a high gloss coating that offers durability, corrosion resistance, and good finish.	
		Resiliently mounted and precision balanced for smooth, quiet operation	
		2000-3000rpm	
		Valve for regulating water flow (Optional)	
28	Model Trimmer with diamond disc	It should be heavy duty	6
		The unit should be provided with diamond disc of 10-12".	

	dry type	<p>The unit should be finished, inside and out, with a high gloss coating that offers durability, corrosion resistance, and good finish.</p> <p>Resiliently mounted and precision balanced for smooth, quiet operation</p> <p>2000-3000rpm</p> <p>Valve for regulating water flow (Optional)</p>	
29	PINDEX SYSTEM	<p>Bright laser beam to accurately locate drill position</p> <p>Clear visibility in all light conditions</p> <p>Drill automatically penetrates to exact depth</p> <p>Manual drilling procedure</p> <p>Plastic housing</p> <p>Accessories should include complete saw system and pin system with various sizes including sleeves</p>	1
30	High Speed Alloy Grinder With Suction	<p>Fully adjustable, time-saver, heavy duty motor of 1/3 HP , Having self-contained dust collector. Motor of the supplied unit should be UL-recognized and CSA-certified for electrical safety. Equipped with precision high speed automatic spindle, which allows changing tools without stopping the motor. Provided with the feature of 10,000 and 24,000 rpm belt controlled speeds. Dimension (WxLxH) 12"x18"x11", 115 V, 50/60 Hz</p>	1
31	Preheating furnace	<p>Electronically controlled unit with micro-processor and digital display</p> <p>Feature of fume aspiration</p> <p>Memory of >5 cycles</p> <p>Ignition delay upto 100 hours.</p> <p>Max temperature >1000°C</p> <p>Chamber should be size of approx. 36x46x49 cm (wxdxh)</p>	1
32	Motorized casting machine	<p>Motorized casting machine</p> <p>Require for casting, should be provided with oxi-propane blow torch.</p> <p>Should be completely built in of stainless steel.</p> <p>Provided with digital timer to enable the end user to set the centrifuge time and having features of start-up speed adjuster.</p> <p>Should have two joints arm which should allow user flow & soft start.</p> <p>Should be already set & balance as it can be work with 1, 3, 6, 9 size of cylinders.</p> <p>Provided with Cabinet.</p> <p>Having safety features like self-braking engine so that machine stop working automatically as soon as the door would get opened.</p> <p>Allow complete operator's safety</p>	1
33	Induction casting machine	<p>User friendly, compact bench top casting machine with high-performance induction heating.</p> <p>It should have featured as of with high output at low power consumptions.</p> <p>Induction melting power must be 3.6kVA, 65kHz.</p> <p>Casting temperature upto 1550°C.</p> <p>Ideal of all available dental alloys with the feature of heating-level switch, direct cooling with automatic shut-off system, fast adjustment for use of different casting, movable counterweight.</p> <p>It should provide along with Ceramic melting crucible, graphite inserts ceramic insert and base socket mould former & melting powder</p>	1
34	Ceramic Furnace	<p>Lightweight, user-friendly furnace for all types of ceramic dental restorations, vaccum & atmospheric firing, soldering of ceramic work, crystallization firings etc.</p> <p>Having feature of touch-screen display with graphics and USB stick connection for loading updates.</p> <p>Should have auto-adjust temperature feature and having firing temperature of max. 1200°C</p>	2

		Should be provided with >100 freely definable programs.	
		Should be provided along with the following three kits: -	
		First classic kit having 16 opaque, 16 opaque dentine, 16 dentine, 1 wash opaque, 2 enamel, 1 translucent, 1 window, 3 cervical, 3 neck, 2 corrective, 2 modelling fluid, 1 opaque fluid, 1 shade guide standard, 1 shade indicator classical	
		Second 3D-master kit having 1 wash opaque, 5 opaque, 26 opaque dentine, 26 dentine, 2 enamel, 1 translucent, 1 window, 3 cervical, 5 neck, 2 corrective, 2 modelling fluid, 1 opaque fluid, 1 shade guide standard, 1 shade indicator 3d-master, 1 linearguide 3D-master.	
		Third, Stain Kit with 20 stains, 02 glaze powder, 01 glaze liquid, 01 mixing plate, 1 press (#0 no.), 01 Mixing tip & stain shade guide	
		Maximum holding time of 150 minutes	
35	Sand blaster	Fine blasting device, with integrated LED lighting technology in the handpiece	1
		The blasting device should be provided with filter module.	
		It should have feature of thorough removal of investment and oxides to prevent undesired biological reactions.	
		It should be of 4 chambers for using two other sandblasting modules (investment could be saved in another unit).	
		Colour coding system should be on the tanks.	
		Capacity should be of >400 g.	
		Filter module:	
		Should have maximum operating safety.	
		Should protect against dust during sandblasting	
		Filter should clean quickly and without any loss of performance.	
		Switches should be switched ON automatically	
36	Vacuum mixer and duplicator	Wall-mounted unit for mixing of investment materials, plaster, stump material or duplicating silicone,	2
		tabletop stand so as could use as bench unit also.	
		Having powerful vacuum pump which can be generate vacuum of up to 100mbar approx. and having capacity of 20 l/min.	
		Should provide with transparent vacuum mixing bowls size of 250 to 1200ml and should be fixed to the agitator coupling.	
		Having feature of electronic timer which controls the mixing time and front panel of the unit having display which shows the current vacuum	
37	Steam cleaner	Boiler capacity of 5 lt. Made of stainless steel and pressure of 4/5 bar	1
		Work with ordinary water	
		Having automatic pressure control feature with pressure switch	
		Adjustable steam outlet with electro valve cover, having acoustic signal	
		Heating element should be copper coated resistance with brass flange	
		Designed to distribute steam.	
		Having safety valve, cap, fuse, pressure switch and other security features	
38	COMPRESSOR	Oil-free, Medical Grade, Mono-bloc 1.00 HP . It should have:-	5
		Air moisture filter.	
		Epoxy coating to prevent rusting	
		Pressure gauge and auto cutoff switch	
		Tank should have a capacity of minimum 35 litres.	
		Auto head air release valve/drain valve.	
		The provision for drainage of water from the base tank of compressor.	
		It should give medical grade air which is absolutely oil free.	
		Safety Release Valve.	
		1200-1500 rpm & 230 V/ 50HZ	
		There should be provision and facilitation for indoor and outdoor installation (cover be provided for outdoor installation).	
39	Instrument retrieval	Kit should include various sizes of Retrievers and/or Drills to reach	1

	kit	<p>various parts of the root canal</p> <p>Made up of titanium or stainless steel</p> <p>Please mention the price of refills separately</p>	
40	Rubber dam kits	<p>Contents of the dental kit should be a rubber dam punch, rubber dam forceps of high quality of stainless steel that are autoclavable.</p> <p>Autoclavable plastic dam frame template 6"x 6" (152mm x 152 mm).</p> <p>There should be winged clamps . 9 or 10 in number.</p> <p>A dental dam stabilizing cord pack</p> <p>Ready cut rubber dam sheets box containing 30-36 sheets of 6"x 6" medium rubber dam natural latex rubber and gauge of 0.007-0.009 inches</p> <p>Dental dam napkins for patients sensitive to latex and better saliva absorption and a manual for dental dam application.</p> <p>All components of the rubber dam kit should be CE certified</p>	3
41	Magnification loupes	<p>Advanced vision enhancement System.</p> <p>Light weight binocular loupes with multifunctional capabilities.</p> <p>Multicoated precision lenses for clarity and reduced reflection.</p> <p>Fully adjustable viewing angle, pupil distance and light weight (titanium) frame size medium/large.</p> <p>Package should include a carry case in aluminum, light weight frame, side shields, head band, microfibre cloth, screw driver, calibration target .</p> <p>Loupes with retainer straps, with magnification 2.5 or 3.5 times.</p> <p>There should be an interpupillary knob, height adjustment lock screw, height adjustment rail, lumin assembly, view angle hinge, flip up handle.</p> <p>Additional requirements- trendy frame, clear lens covers, head band, lamp (LED) head light, rechargeable power</p> <p>Illumination = 40000 lux</p> <p>LED operating life = 50000 hours</p>	4
42	Intra oral camera	<p>The equipment should have the following:</p> <p>Should be USB Compatible</p> <ul style="list-style-type: none"> - Should not require separate video display cards - Should have handpiece not more than 50 grams weight - Lightweight, portable and easily transferable between operatories - Should have Universal fixed focal range delivering clear, crisp images - Should be progressive scan CCD Sensor - Should have focus range of 5-45 mm providing ability to capture images from extreme close-up to full arch without focal adjustment - Should have 8 high quality LEDs to provide superb image clarity and color - Should have USB cable length of 5 meters - Should have easy reach inside the mouth with contoured and smooth edges of the camera handpiece - Should have integrated frame capture button - Should have facility for detaching the cable from the handpiece - Should have advanced noise-free electronics and increased imager sensitivity contributing to better image quality - The Image Capture button should be located on the rear of the camera for ease of operator use - Should connect directly to any computer through high speed USB 2.0 port <p>Imaging Software:</p> <p>Should have :</p> <ul style="list-style-type: none"> - Support for multiple database archive - DICOM protocol 	5

		<ul style="list-style-type: none"> - The same image management software should allow for acquiring intraoral x-ray and camera images for same patient on same page/folder - Multiple Patient search criteria - Localized enhance feature - Ability to e-mail images directly from software and to read images from e-mail - The Intraoral Camera should work on same software as the digital intraoral sensor - Should be compatible with Win XP or Windows Vista as well as Windows 7 	
43	Automatic Intra oral X ray developer	<p>Fully automatic development of x-ray films upto 8 in number.</p> <p>The developer should have a daylight hood with bath heating with flap.</p> <p>Processing time 5-6 minutes</p> <p>Easy water drainage and refilling system</p> <p>Temperature controlled chemical heating.</p> <p>Developing without a darkroom and the accompanying procedures</p>	1
44	Variable intensity extra oral light cure unit for composite resin curing		2
45	Autoclaves for bulk sterilization (front loading)		3
46	Overhead Projector		2
47	Slide Projector		2
48	Hu Freidy Sterilizer trays		4
49	Autoclave	<p>Common specifications as per Institute</p> <p>Available on rate contract</p> <p>minimum capacity of 113 liters</p> <p>preferably two operation modes; manual & automatic</p> <p>microprocessor based control with digital display</p> <p>internal chamber and lid along with all wetted parts fabricated from stainless steel</p> <p>single lever pronged closure system with lid interlock for residual pressure</p> <p>easy lift and closing of lid by assisted support</p> <p>castors for ease of movement</p> <p>flexible sensors for control and monitoring of cycles</p> <p>spring loaded safety valve for over pressure</p> <p>audio and visual alarms for sensor open and low water level detection</p> <p>Independent over temperature safety cut out.</p> <p>Temperature: range up-to 122°C in 0.1°C resolution with an accuracy of 0.5°C.</p> <p>Timer: 1-99min</p>	6
50	Surgical trolley		48
51	Mallet		1
52	W.H.O Probe	<p>Periodontal Instruments should be made of Immunity steel , the highest quality forged stainless steel with an optimal blend of chromium and carbon</p> <p>They should have a finish by hand to a satin luster.</p> <p>Ergonomic design for optimum comfort.</p> <p>Hollow handled with textured surface.</p> <p>Surgical instruments should be made of surgical stainless steel.</p>	1
53	Naber's Probe		1

54	Thin Williams color coded periodontal probe	Periodontal Instruments should be made of Immunity steel R, the highest quality forged stainless steel with an optimal blend of chromium and carbon They should have a finish by hand to a satin luster. Ergonomic design for optimum comfort. Hollow handled with textured surface. Surgical instruments should be made of surgical stainless steel	1
55	Newman's Probe		1
56	Goldman Fox SE probe	Flat	1
57	Marquis color coded probe		1
58	15/16 Kirkland periodontal knife		1
59	3/4 Bucks Periodontal Knife		1
60	5/6 Bucks Periodontal Knife		1
61	1/2 Orbans periodontal Knife		1
62	Paquette palatal Blade handle		1
63	1 Goldman fox Pocket marker	Left	1 set
64	2 Goldman fox Pocket marker	Right	
65	Mc Call's Universal currettes		1 set
66	Gracey's currettes		5 Sets
	1/2		
	3/4		
	5/6		
	7/8		
	9/10		
	11/12		
	13/14		
	15/16		
	17/18		
	13/14 mini five Gracey's curette		
	15/16 mini five Gracey's curette		
67	Krane Kaplan Periodontal Knife		
69	Cumine scalar		
70	Scaling instruments		5 Sets
71	Cumine Universal scaler		

72	U 15/30 DE Scaler Ever Edge		
73	H 6A /7A scaler		
74	H6/H7 Hygienist scaler		
75	¾ Remington scaler		
76	204 S Sickle scaler		
77	Jacquette Scaler No. 7		
78	Krane Kaplan Scaler		
79	2 Oschenbain Periodontal Chisel		1 Set
	4 Oschenbain Periodontal Chisel		
80	9/10 Schluger's periodontal bone file		2
81	52 Miller Bone File		2
82	Benque Periosteal Elevator		4
83	B.P. Handle No.3		6
84	Artery forceps		2 each
	Straight Hartman hemostat		
	Curved Hartman hemostat		
85	Mayo Hegar grooved Needle Holder	16cm/6.24"	4
86	Scissors		2 each
	Suture scissors	12 cm/ 4.75 inch	
	Goldman fox scissors	(12.5/ 5 inch)	
	Straight Iris scissors	11 cms	
	Curved Iris scissors	11 cms	
87	Small Goldman fox tissue nipper		
88	Tissue forceps		2 each
	Toothed		
	Non- Toothed		
89	Tissue pliers		2 each
	Straight Semkin Taylor Tissue pliers	12.5 cm/5"	
	Adson's tissue pliers	12cm/4.75"	
90	Cheek retractors		2
91	Mouth props		2

92	Microsurgical periodontal Instruments:		1 set
93	Microsurgical straight smooth Castroviejo needle holder	14 cm/5.5":1	
94	Microsurgical curved smooth Castroviejo needle holder	14 cm/5.5":1	
95	Mini blade scalpel handle: 1		
96	Microcurved Castroviejo scissor	18cm/7":1	
97	Castroviejo scissor	10cm/4":1	
98	Straight iris perma sharp scissors	11.5/4.5":1	
99	Curved iris perma sharp scissors	11.5/4.5":1	
100	Micro Adson's Tissue pliers 12 cm/4.75": 1		
101	Microsurgical periodontal Instruments:	Periodontal Instruments should be made of Immunity steel , the highest quality forged stainless steel with an optimal blend of chromium and carbon	1 set
102	Microsurgical straight smooth Castroviejo needle holder 14 cm/5.5":1	They should have a finish by hand to a satin luster.	
103	Microsurgical curved smooth Castroviejo needle holder 14 cm/5.5":1	Ergonomic design for optimum comfort.	
104	Mini blade scalpel handle: 1	Hollow handled with textured surface.	
105	Microcurved Castroviejo scissor 18cm/7":1	Surgical instruments should be made of surgical stainless steel	
106	Castroviejo scissor 10cm/4":1		
107	Straight iris perma sharp scissors 11.5/4.5":1		
108	Curved iris perma sharp scissors 11.5/4.5": 1		
109	Micro Adson's Tissue pliers 12 cm/4.75": 1		
110	Bone Graft materials	Sterile, biocompatible	2 Pkts
		Synthetic bone graft containing β - tricalcium phosphate	
		Available IN 1- 0.8cc sterile syringe	
		Granule size: 0.5- 1mm	
		Sterile, biocompatible Xenogenic demineralized bone graft containing collagen type1	3 Pkts
		Available in a pack of two 0.25 gm sterile vial	
		Granule size 250 microns	3 Pkts

		Osteoconductive, resorbable, highly crystalline material comparable to natural bone	2 Pkts
		Containing no α/β tricalcium phosphates amorphous phases, or bone-inhibiting pyrophosphates	
		Synthetically derived non-ceramic bone graft material	
		Available in crystalline form (300-400 microns) 0.75 gm vials.	
		Osteoconductive, resorbable material	
		Containing Type 1 collagen with calcium sulphate	
		Resorption within 6-8 weeks	
		Easy to use, moldable	
		dough like consistency	
		Available in a pack of two 0.25 gm vials	
		Absorbable collagen membrane containing Type 1 collagen of xenogenic origin	3 Pkts
		Purified using a patented American technology	
		Stored at 4-40 degree Celsius	
		30x40 mm per vial	
111	Splinting Material	Made of fibre glass	2
		Thickness app. 0.35mm	
		Binds to both composite and acrylic	
		Multi-flex orthodontic wire	
112	Dental Iontophoresis Unit	A battery-operated dentist-held device	1
		9 volt battery	
		Ammeter with graduations ranging from 0 to 5 mA at differences of 0.05 mA	
		Voltmeter from 0 to 10 volts	
		Variable resistance	
		Polarity selection switch	
		An on/off switch	
		A patient-held grounding device, An electrically conductive cord connecting the two devices.	
113	Refrigerator	Double door	2
		Capacity of 230 lit	
		Automatic defrost	
		De-odorizing system	
		5-Star energy rating	
		Stablizer free voltage control	
		LED light system	
		Fire retardant wires	
114	LCD projector	Screen Size - 4 meters diagonally	7
		Aspect Ratio - 4:3	
		Computer Compatibility - VGA /SVGA/ XGA/ SXGA	
		Video Compatibility- PAL/SECAM/ NTSC	
		Projection Lamp - UHP/ METALHALIDE / NSH – LAMP. Details of lamp to be furnished in the offer	
		Lamp Life - 2000hrs Minimum If offered models are with lamp life less than '2000 hours, additional lamps to achieve lamp life 2000 hrs. (Minimum)	
		Lamp hour counter - To be built -in	
		Brightness- 3500ANSI Lumens or higher	
		Throw Distance (Range) - Should cover 2 meters-10 meters from screen	

		Audio System Minimum - 1.0 watt RMS with built-in speaker	
		Zoom! Focusing - Lens Zoom 1:1.2 or higher, Motorized Zoom & Focus (Controlled by a Remote)	
		Remote Control - Remote control unit for PC and Mouse with inbuilt laser pointer	
		Terminals ports with connectors (Input/output) - Video IN, S Video IN, RGBIN, Audio IN, RGB Out, external RGB multiplexer	
		Connectivity for remote mouse (to be specified by bidder)	
		Power Consumption – 260-280 W Max (to be specified by bidder)	
		Contrast Ratio - 260: 1 or higher	
		PCMCIA card slot with card.	
		Native resolution - 1024x768Color Pixels Minimum	
		Intelligent resizing - I280xI024	
		Key stone/Lens shift – Digital (± 15 degrees horizontal and vertical)	
		Wireless Connectivity between PC and projector, storage media port and wireless LAN connectivity (wherever specified) – Through integrated port in the projector only	
		Packing - Hard case high Impact, durable case for LCD Projectors	
		0.5-1.0 inch XGA Panel	
		Manufacturer should be ISO certified for quality standards.	
		Should be BIS approved product	
		Power input to be 220-240VAC, 50Hz fitted with Indian plug	
		The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	
		The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%	
		Standard accessories, power cord, RGB cable, Video Audio Cable, Component Cable PS/2 mouse cable, remote controller	
		Replacement lamp (Optional Accessories)- One spare replacement lamp of life 2000 hours to be provided (cost to be indicated separately in the offer)	
		Ceiling mount brackets (Optional Accessories)-- To be provided (cost to be indicated separately in the offer)	
115	Digital Camera Digital SLR		5
		Body type: mid size SLR	
		Sensor	
		Max resolution : 4288*24848	
		Other resolutions :	
		3216 x 2136, 2144 x	
		Image ratio w:h : 3:2	
		Effective pixels : 12.3 megapixels	
		Sensor photo detectors :	
		12.9 megapixels	
		Sensor size : APS-C	
		(23.6 x 15.8 mm)	
		Sensor type : CMOS	
		Image	
		ISO Auto, 200 - 3200 (plus 6400 with boost)	
		White balance presets:	
		Custom white balance:	
		Uncompressed format	
		RAW	
		JPEG quality levels:	
		Fine, normal,basic	
		Optics & Focus	
		Autofocus	
		Contrast Detect (sensor)	
		Phase Detect	

Multi-area
Selective single-point
Single
Continuous
Face Detection
Live View
Phase Detect
Multi-area
Selective single-point
Single
Continuous
Face Detection
Live View
Manual focus
Number of focus points
Lens mount :
Nikon F mount
Focal length multiplier
1.5X
Screen / viewfinder
Articulated LCD : fixed
Screen size 3inches
Screen dots : 9,20,000
Screen type
Super Density TFT color LCD with wide-viewing angle
Live view feature
Viewfinder type (optical, Pentaprism)
Viewfinder coverage
Viewfinder magnification 0.96X
Photography features
Minimum shutter speed
30 sec
Maximum shutter speed
1/4000 sec
Aperture priority
Shutter priority
Manual exposure mode
Subject / scene modes
Built-in flash
Flash range 17m at ISO
External flash (hot Shoe wireless)
Flash modes
Auto, On, Off, Front curtain, Rear curtain, Red-Eye, Slow Sync
Continuous drive
Self-timer
(2, 5, 10 or 20 sec)
Metering modes
Multi
Center-weighted
Spot
Center-weighted
Spot
Exposure compensation
±5 EV (at 1/3 EV, 1/2 EV steps)
AE Bracketing
(2, 3 frames at 1/3 EV, 1/2 EV, 2/3 EV, 1 EV steps)
WB Bracketing
Videography features

		Format : motion JPEG Microphone : mono Resolutions 1280 x 720 (24 fps), 640 x 424 (24 fps), 320 x 216 (24 fps) Storage Storage types SD/SDHC Connectivity USB 2.0 (480 Mbit/sec) HDMI (mini type C) Wireless : eyefi Remote control Physical Battery : battery pack Battery description : Lithium-Ion EN-EL3e rechargeable battery & charger Battery Life (CIPA) : Weight (inc. batteries) 703 g (1.55 lb / 24.80 oz) Dimensions 132 x 103 x 77 mm (5.2 x 4.06 x 3.03") Other features Orientation sensor Timelapse recording GPS (optional) GPS notes GP-1	
116	Ring Flash	IGBT and Series Circuitry Auto Check Indicator Exposure Control Compatible W/DSLRs Rings for 52, 55, 58, and 62mm Lenses Powered by 4x alkaline, NiCad, or Ni-MH batteries Number of flashes: 150-200 Angle of coverage: For 50 mm (35 mm equivalent) and longer focal lengths Recycle time: 2-3 sec	1
117	Articulator (semi-adjustable)	A) Whipmix: -Wide posterior access for visibility and lingual access. -Accumount system of inert changeability to allow accurate interchanging of casts between articulators. -condylar guidance featuring adjustable condylar inclination and progressive side shift. -with facebow,disposable bite- forks,splitex transfer stand.	3
		B) Artex :- -semi adjustable arcon articulator -adjustable condylar inclination between -20 degrees to +60 degrees radius of approx.19 mm and adjustable Bennett angle from 0 to 30 degrees. -side shift up to 1mm,protusion upto 6mm approx.	3
		C) Hannau Wide vue:- -should have intercondylar width of approx.110 mm and lateral adjustments 0 -30 degrees and protrusive adjustments 0-75 degrees. -should have adjustable incisal guide. -comprehensive basic equipment:- -2 pair metal mounting plates. -1 extension pin.	3

		-1 standard incisal pin	
		- 1 standard (adjustable) incisal side.	
		-1 orbital indicator	
		-1 technique manual.	
		-1 carrying case.	
118	Air rotor handpiece (push type) (pedo head)	-super torque push button modem	6
119	Ultrasonic Scalers	Piezo electric ultrasonic scaler -autoclavable hand piece with medical micronic filter with min 60micron meter pore size. Vibration frequency of 25-50 KHZ. -should meet safety standards as per EN ISO 13485 quality assurance system One autoclavable hand piece with one tip replacement wrench and 5 tips satelec/ sirona / EMS or equivalent	3
120	Pneumatic crown bridge remover	-Multiple tips -Autoclavable -Finger tip control -Operation 30 to 60 psi -Wrench -Padded storage case	4
121	Vibrator	-should feature cast metal housing construction with a shock absorbing base and easy to clean rubber top. -voltage 220 V -Frequency 50-60 Hz. -weight 2-3 kg Illuminated Start and stop switch -large suction feet for stability.	6
122	Acrylizer	-double walled inside made of stainless steel Should be controlled by hydraulic thermostat -should consist of; mechanical timer ;brass drain plug ;two indicator control knobs ;on/off switch	2
123	Dewaxing Unit	-Construction-stainless steel -Tank size-16*12*9 cm (min). -Water filling-manual -Power rating heater -2000w -Controller <50w -Operating voltage -230 v+/-10 %,50Hz,1 phase -Number of flasks accommodates -8 to 10 -Default cycle-92 degrees or 5min with time programmed to 'off' -Temperature / time set range -0-99 degrees C /0 to 9:55(h:mm)	3
124	Curing pressure pot	-for processing porosity free self curing resins. -Heavy gauge aluminum construction -With a pressure gauge & safety valve-operating pressure-approx.2 hrs.	2

125	Duplicator	-Electronically controlled heating, cooling and keeping the temperature constant.	1
		-Programmable, timer –controlled melting of duplicating gel.	
		Digital display, providing information on the relevant processing parameters.	
		Technical data:-	
		Capacity:- 3 kgs. (Approx)	
		Voltage -230 V	
		Frequency -50-60 Hz	
		Accessories:	
		1.Duplicating flask- Qty 1 piece –made of plastic	
		2.Duplicating gel	
126	Burn-out furnace	-Microprocessor controlled temperature regulation with digital display.	1
		-Maximum pre heating temperature 1000 degrees C approx.	
		-Programmable for up to 100 hrs approx.	
		-programmable heating rate, linear rate of 1-10 degrees C per heat	
		-No. of programmes: at least 5	
		-Electric power supply 220/240 V, 50-60 Hz.	
127	Spot welders	-spot welders with current pulse up to 2000 Amps.	5
		-Variable welding settings.	
		-provision for continuous soldering.	
		-Stand- by mode with power saving device.	
		-provision for fault detection signals of over-heating /wrong electrodes selection, system problems etc.	
		-provision for foot switch control as well as hand operation.	
128	Wax heater	-portable	2
		-voltage:	
		110V/60Hz +/- 10%	
		220V/50Hz +/- 10%	
		-power approx. 60Watts.	
129	PKT set	Stoma or Equivalent	6-set
	(wax carver)		
130	Magnifying work lamp		
131	Ultrasonic cleaner	-should be stainless steel tanks enclosed in a durable aluminium housing, water resistant construction.	7
		-should have a heater on/off switch.	
		-power balanced circuitry.	
		-Rapid start - up for instant cleaning power internal thermal cut off.	
		-min capacity 13 liters with mesh bucket.-	
132	Composite curing unit	-high temp. Nitrogen pressurized unit for curing of indirect composite restorative materials.	1
		-temp.of approx 135-140 degrees C and 60 psi pressure.	
		-dimensions of approx. height 15 cm width 30 cms depth 25 cms	
		-weight about 8-10 kgs.	
		-Electrical rating 220 V, 50-60 Hz.	
		-power 540 Watts	
133	Geyser	ISI mark with 35 liters capacity	5
134	Artery forceps	curved (Halsted mosquito 12.5 cm)	12
135	Artery forceps	curved (Spencer Wells 15 cm)	12
136	Artery forceps	curved (Spencer Wells 18-20 cm)	6
137	Artery forceps	straight (Halsted mosquito 12.5 cm)	10
138	Artery forceps	straight (Spencer Wells 15 cm)	10
139	Artery forceps	straight (Spencer Wels 18-20 cm)	6

140	Mayo scissors	straight	2
141	Mayo scissors	curved	2
142	Metzenbaum scissors	straight	2
143	Metzenbaum scissors	curved	3
144	Forceps plain (non toothed)	small	4
145	Forceps plain (non toothed)	Large	2
146	Forceps toothed	small	4
147	Forceps toothed	Large	2
148	Adson tissue forceps		2
149	Allis forceps		6
150	Babcock forceps		2
151	Lahey's forceps		2
152	Sinus forceps	small (4" – 5")	1
153	Sinus forceps	large (8")	1
154	Kocher's forceps	small, straight (6")	2
155	Kocker's forceps	large, straight (8")	2
156	Intestinal non-crushing clamps		2
157	Sponge Holding Forceps (Rampley)		4
158	Needle Holder (Mayo-Hegar)	small 6"	4
159	Needle Holder (Mayo-Hegar)	large 8"	2
160	Langenbeck's Right Angled Retractor	(narrow and medium blade)	4 each
161	Senn retractor		3
162	Doyen's retractor		2
163	Dever's retractor	(medium blade)	2
164	Adson retractor		1
165	Bulldog vascular clamp	straight	1
166	Bulldog vascular clamp	Curved	1
167	Scalpel handle no 3		2
168	Scalpel handle no 4		4
169	Towel Clips (Mayo's type)		6
170	Towel Clips (Doyen's pinch type)		12
171	Kidney tray		2
172	Bowls	Small	6
173	Bowls	Large	3
174	Stille's curette		1
175	Cheatle's forceps		2
176	Tongue depressor (Andrew type)		1
177	Instruments tray	Small	3
178	Instruments tray	Large	2
179	Proctoscope	Adult	1
180	Proctoscope	paediatric	1
181	Tracheal dilator		1
182	Magill's catheter introducing forceps	Adult	1
183	Magill's catheter introducing forceps	paediatric	1

184	Probes	assorted sizes	3
185	Volkmann's	retractor blunt pointed – 2 and 4 prongs	1 each
7Mini Instruments			
186	Bone Elevator	Snake Point Curved 6mm, 8mm wide , Length:6"	1 each
187	Plier	Serrated Jaw without gap, Length:5½"	1 each
187	Depth Gauge	Tip. Dia : 1, 1.5, 2mm Length : 4"	1 each
198	Trocar Sleeve	Dia: 2.35mm, Length: 3"	1 each
190	Self Holding Screw Drivers with Aluminium Handle	Dia: 1.5, 2, 2.5mm, Length:6½"	1 each
191	Self Holding Screw Drivers with fiber Handle	Dia: 1.5, 2, 2.5mm, Length:6½"	1 each
192	Ordinary Screw Driver	Dia: 1.5, 2, 2.5mm , Length: 6½"	1 each
193	Bone Tap S.S.	Thread Dia. 1.5,2,2.5,2.7mm , Length: 4"	1 each
194	Mini Bone Drill	With Collets : 1mm, 1.5mm & 2mm Fibre Handle, Single Gear	1 each
195	Plate Bending Forcep	3 Prong , Length : 5½"	1 each
196	Plate Bending Forcep with pin	Pin Dia: 1.5/2/2.5mm , Length:5½"	1 each
197	Modelling Lever	3 pins Dia. 1.5/2/2.5mm, Length:5½"	1 each
198	Plate Holding Forceps	Length: 6", Fenestrated Handle , Fine Tip	1 each
199	Plate Holding Fork	4mm Round Ball with groove, Length:6"	1 each
200	Screw Holding Forceps	X Action, Fenestrated Handle , Length: 4½"	1 each
201	Plate Bender for Recon.Plates	3 Round Bars Halfmoon Handle , Length:8"	1 each
202	Rowe's Maxilla Disimpaction Clamps	Left & Right, Length: 10", Slightly Curved Smooth jaw	1 each
203	Harrison Mandible Holding forcep	Speed Lock Handle with one Cut hole jaw , Length : 7½"	1 each
204	Hyton William Forceps - Forward Traction	Double Speed lock, Tappered thin front tip, Length: 9½"	1 each
205	Downward Traction	Long upper blade, Flat lower blade, Length: 9½"	1 each
206	Ash Nasal Septum Forceps - Small	2mm gap in the jaw, Small Length: 8", 35mm Blade Length	1 each
207	- Big	2mm gap in the jaw, Big Length:9", 45mm Blade Length	1 each
208	Walsham Nasal Septum Forcep	2mm gap in the jaw, Left & Right, Length:9"	1 each
209	Maxillary Fracture Reduction Forcep	Curved jaw with 2 fork inside , Length:9"	1 each
210	Bone Holding Forceps for Max Kit	Lion Jaw with Speed Lock Handle , Length: 5½"	1 each
211	Bone Holding Forceps - Pointed	Semi Sharp pointed single jaw with ratchet, Length : 5", 6"	1 each
212	Bone & Plate Holding Forceps	Ball Guarded Point, Left & Right, Length: 6½"	1 each
213	Reduction Bone Holding Forceps - Serrated with Ratchet	Pointed single jaw, Length:5½"	1 each
214	Chin Segment Forceps	Rectangle Serrated Jaw , Length: 8"	1 each
215	TMJ Spreading Forceps	15mm Wide Blade , Spring Action , Length:8"	1 each

216	Mandibular Bone Graft Holder	Half Round, Serrated jaw with Pins , Length:8"	1 each
217	Maxillary Bone Graft Holder	Half Round Serrated Jaw without pins , Length: 7½"	1 each
218	Canny Ryall Retractor Army Pattern	Blunt Single & Double Hook at both end, Length:6½"	1 each
219	Navy Pattern	Closed curved hook at one side , Blunt Tip, D/E, Length:8"	1 each
220	Czerny Retractor	One side double prong, other side solid blade, Length:7"	1 each
221	Double Hook Skin Retractor	Blunt Fine Double Prong, Round Handle, Length:6"	1 each
222	McIndoe Retractor	3 fork Right Angle, Length : 8½"	1 each
223	Stack Retractor	Serrated thin double blade, Length:5"	1 each
224	Rayne Mandibular Retractor	Serrated Tip jaw with concave blade Thick Fibre Handle	1 each
225	Davis Double Ended Retractor	6 x 10mm , D/E blade, Blunt Edge, Length:6"	1 each
226	Chin Retractor	Double Forked Jaw with Blunt Teeth, Length:6½"	1 each
227	Forked Ramus Retractors	'V' shape curved blunt tip, Length:8½", with Round Finger Handle	1 each
228	Channel Retractor	Size: 8mm, 12mm Concave Blade , Length:5½"	1 each
229	with big handle	12mm Concave Blade with Hollow Handle , Length:8½"	1 each
230	Kilner Retractor D/E 'C' Shape	3 Shape	1 each
231	Hajeck Cheek Retractor	Solid blade with right angle, Length:7"	1 each
232	Kilner Nasal Retractor	Right angle conic shape blade, Length:5"	1 each
233	Aufricht Nasal Retractor Solid	Angular conic shape blade with Fibre handle, Length:6½"	1 each
234	Fenestrated	Blunt Fenestrated edges, with fibre handle ,Length:6½"	1 each
235	Kilner Skin Retractor	Fine 4 semi sharp prong with Right angle retractor , Length:6"	1 each
236	Farabeuf Retractor	2 big blunt jaw, Length: 8½", with Round Finger Handle	1 each
237	Malleable Copper Retractor	8", 10", 12" - Long	1 each
238	Hook Retractor - double	Thick blunt double hook, Flat handle, Length : 7"	1 each
239	Austin Tissue Retractor - Regular	Thin concave blade, 2 teeth at the tip , Length: 4"	1 each
240	Halfmoon	Thin concave blade, Half round blunt tip,Length: 4"	1 each
241	Forked	Thin Concave blade, Narrow double forked tip, Length: 4"	1 each
242	With Suction Tip	Tubular Suction with Center Hole, Double forked Tip, Length:8"	1 each
243	Self Retaining Skin Retractors Alm's - Small & Big	Semi blunt 4 prong, Length Small:3", Big:5"	1 each
244	With Ratchet	Semi blunt 4 Prong, Length: 4"	1 each
245	Right Angle Lengenback Retractors - Small	Flat right angle blade, with Round Finger handle, Blade width: 6x20mm, Length 8½"	1 each
246	Medium	blade width : 10 x 30mm, Length 8½"	1 each
247	Big	blade width : 15 x 45mm, Length 9"	1 each
248	Desmare Retractor - S/M/L	Blunt conic shape curved tip, Length: 6"	1 each
249	Kocher Thyroid Retractors	Round concave blades, Blunt edge, Small & Big, Length:9", With Round Finger Handle	1 each
250	Condyle Retractors - S/E	8mm Blade with thumb rest	1 each
251	- D/E	8 x 12mm blade with thumb rest	1 each

252	D/E Hook type	Blunt curved hook, Length: 7"	1 each
253	Condylar Neck Retractor	Blunt concave blade, Length: 10", Left & Right with Round Finger Handle	1 each
254	Lip & Cheek Retractor Bishop	wide curved blade with blunt edges, Length: 6"	1 each
255	Middledorph S/M/B	Round Fenestrated jaw with blunt edges, Length: 9", with Round Finger Handle	1 each
256	Awty Osteotomy Retractors	Right angle blunt tip, Curved shaft, Length: 6½"	1 each
257	Kilner Alae Retractors	Blunt Double prong jaw, Length: 4"	1 each
258	Volkman Retractors	Semi Blunt 4 Prong, Length: 9", with Round Finger handle	1 each
259	Self Retaining Mastoid Retractor	3 or 4 Slightly curved Blunt prong, Length: 4", 5", 6"	1 each
260	Browne Lingual Flap Retractor	Concave blunt blade, Length: 6½"	1 each
261	TMJ Retractor D/E	6 x 10mm, Concave blunt blade, Length: 8"	1 each
262	Condylar Alveolar Retractor	Blunt double fork blade, Length: 9", with Round Finger Handle	1 each
263	Rowe Orbital Floor Retractor	Radial blunt floor with hollow handle, Left & Right	1 each
264	Superior Ramus Separator	Serrated 3 blade, Auto reverse Parallel closing, Length: 9"	1 each
265	Soft Tissue Retractor - Reverse Lengenback	Right angle with upward curved blade, Length: 8½", with Round Finger handle	1 each
266	Soft Tissue Retractors Cd. Up & Down - Small & Big	Right angle with concave blade, Length: 9", Length : 9", with Round Finger handle	1 each
267	Minnesota Retractor	Semi Sharp Round Tip	1 each
268	SENN D/E Retractor	4 Semi blunt Prong, Length : 6"	1 each
269	RAGNELL Retractor	6mm Concave Blade	1 each
270	Maliniac Nasal Retractor	120* Conic Shape Blade, Length : 5½"	1 each
271	Sigmoid Notch Retractor	Concave blade with blunt edge, Scoop type Tip , Length: 8½"	1 each
272	Spina Nasalis Retractor	U' Shape pointed tip, Length : 9" with Round Finger handle	1 each
273	Intraoral Retractor	Blunt round tip with thick handle, Length : 9½"	1 each
274	Plastic Cheek Retractor Small & Big	Transperent autoclavable plastic	1 each
275	Monks Tissue Retractor	Serrated Tip with concave blade, Length : 8"	1 each
276	Endoscopic Scalp Retractors 3 Sizes	8mm Semi sharp round tip, Length : 10"	1 each
277	Nasal Retractor	Conic shape blade with 'U' tip, Length : 9"	1 each
278	Ramus Retractor	Blunt Edges, Depth - 3" (75mm), 20,25,30mm Blade	1 each
279	Mandibular Rim Retractor	Double fork convave blade with blunt edge, Length : 8½"	1 each
280	Mcdonald Dissector	6mm Straight & Curved Tip, Length : 7½"	1 each
281	Dental Elevator	Serrated T handle, Length : 4", Left & Right	1 each
282	Ward Periosteal Elevator - Fan shape	6mm Sharp round angular tip, Length : 7"	1 each
283	Periosteal Elevator - fibre handle	3½" Shaft Length Various Shape	1 each
584	Bristow Elevator Fine	10mm tip Width, Gradual curved semi sharp tip, Length: 9"	1 each

685	Cryer Elevator with handle	Hollow Handle Thick Pointed Tip, Left & Right	1 each
786	Cryer Elevator (Cross Bar Elevator)	Serrated T handle, Thick Pointed Tip , Length : 4" Left & Right	1 each
887	Warwick James Elevator	Length : 6½", Left & Right, Straight	1 each
288	Rowe Zygomatic Elevator	8mm & 12mm Blade Width, Blunt tip,	1 each
289	Kilner Zygomatic Elevator	Blade width -8mm, Length : 6½"	1 each
290	Farabeuf Rugine - S/E	Width - 5mm to 7mm, Length:6", Straight & Curved	1 each
291	Howarth Elevator	Width - 5mm (sharp end), Length:9"	1 each
292	Periosteal Elevator - D/E	St. & one cd. End, Width - 8mm, Length:7"	1 each
293	Mallar Elevator	8mm Round Blade, Length:9"	1 each
294	D/E Dissector Probe	Round & Flate Tip, Length:7"	1 each
295	Septum Elevator D/E	Center groove, Length:7"	1 each
296	Periosteal Elevator Sharp & Blunt End	Width - 6mm, Length: 7"	1 each
297	Key's Fine Elevator	6mm wide Tip, Length:7"	1 each
298	D/E Alveolar Dissector	Semi sharp 6mm wide Tip, Length:8"	1 each
299	Hajeck Septum Elevator	'V Shape cut tip, Length:6"	1 each
300	Coupland Elevator	3 & 4mm Tip, Thick Fibre Handle , Length:6½"	1 each
301	Molt Elevator	6mm Round Tip , Length:7"	1 each
302	Cottle Elevator	6mm Round Tip, Graduated, Length:8"	1 each
303	Root Tip Elevator D/E	Sharp pointed double ended, Length:7"	1 each
304	Zygomatic Bone Awl with fibre handle	Pass 24G Wire, 6", 8" Long	1 each
305	Mandibular Bone Awl Set of 5	5 diff. Shape awl, Length:6"	1 each
306	Kelsey Fry Bone Awl with Ring Handle	Sharp point with hole, WL - 3", pass 24G wire, Length:6½"	1 each
307	Kelsey Fry Bone Awl with Fibre Handle	Sharp point with fibre handle, slightly cd. WL- 3", pass 24G wire, Length:7"	1 each
308	Harrison Bone Hook with fibre handle	Blunt round hook , Small & Big Size, Length:7"	1 each
309	Gillies Skin Hook - flat & Round Handle	Round - Knurling handle, Flat - plain handle & sharp round hook, Length:7"	1 each
310	Iliac Crest Awl - set of 3	To fit in one handle, Center hole eye, Poited, WL- 4', Length:5"	1 each
311	Kilner Skin Hook	Sharp skin hook with nurling handle, Length:6"	1 each
312	Double (Mcindoe) Skin Hook	Sharp double prong, round knurling handle,Length:5½"	1 each
313	poswillo Malar hook	Thin Pointed Round hook	1 each
314	Harrison Tendon Hook	Right angle Blunt point hook	1 each
315	Stacey Zygomatic Bone Hook	Blunt round hook with 'T' Handle, Length:6"	1 each
316	Bone Cutter D/A & S/A	Sharp edge, No gap in jaw , 5½", 7½", 9" - Long	1 each
317	Bone Nibbler - D/A & S/A	Sharp edge, No gap in jaw, 5½", 7½", 9" - Long	1 each

318	Strong Bone cutter D/A	Sharp cutting sightly curved edge, 11"	1 each
319	Doyen's Rib Shear	Sharp cutting edge	1 each
320	Rib Cutter	Sharp cutting edge, Thin outer jaw,Length:9"	1 each
321	Rib Raspatory	Semi sharp edges, Oval round shape, Left & Right	1 each
322	Fine Gouge St.	Sharp parallel edge, 2mm To 10mm, Length:6"	1 each
323	Tessier Osteotomes	5mm to 30mm blade width, Very sharp edge, Hexagonal handle, Length:8"	1 each
324	Fine Osteotomes	Sharp parallel edge, Tip Width 2mm To 10mm,Length:6½"	1 each
325	Fine Chisel	Sharp parallel edge, Tip Width 2mm To 10mm, Length:6"	1 each
326	Cottle Osteotomes (Halfmoon)/McIndo e Nasal Chisel	Half Moon Shape with blunt point & sharp edge, Length:7½"	1 each
327	Ward Osteotomes Square handle	Sharp parallel edge, Size 2mm To 10mm,Length:7"	1 each
328	Nasal Septum Osteotome with guard	Blunt guard point with sharp 'U' Shape Calibrated Blade, Length:7"	1 each
329	Nasal Chisel with Guard - L & R	Blunt guard with sharp cutting edge, slightly curved, Size 4,5,6,8mm, Length:6½"	1 each
330	Ramus Stripper	Half Moon Shape with blunt point , sharp edge Angular, 8mm Wide	1 each
331	Pterigoidous Chisel	Sharp parallel curved edge, Serrated Head , Size 6,8,10,12mm, Length:9"	1 each
332	Mandibular Border Stripper	Sharp curved edge, Size: 5,7,9mm, Length:8"	1 each
333	Rhinoplasty Wall Osteotomes	Sharp edge with blunt guard	1 each
334	Bone Grafting Gouge with fibre handle - Cd.	Sharp parallel edge, Slightly curved, 2mm To 10mm, Length:6"	1 each
335	Volkman Bone Scoop D/E	Sharp scoop edge with diff. end,Length:6"	1 each
336	Read (Exner) Currettes	Sharp currette edge, St. Left & Right, Length:6½"	1 each
337	Luccas Currettes D/E	Semi sharp slightly curved, tip strength	1 each
338	Bone Scoop - D/E - Angled	Sharp edge, Diff. side at both end, 1mm To 6mm, Length:7"	1 each
339	Bone Scoop with fibre handle	Sharp edge, 1mm To 6mm	1 each
340	Kilner Dott Mouth Gag	2 adj. Upper blunt hooks with 3 diff. fenestrated blades, Length:7"	1 each
341	Doyen Mouth Gag	Serrated curved blade, Adult & Paediatric	1 each
342	Dingman Mouth Gag	Frame with spring on upper & lower bar, 2 adj. Cheek Retractors, 2 adj. Upper blunt hooks & with 3 diff. fenestrated blades , Frame size - 5" x 3", Size : Adult, Length:7"	1 each
343	Dingman Mouth Gag	Frame with spring on upper & lower bar, 2 adj. Cheek Retractors, 2 adj. Upper blunt hooks & with 3 diff. fenestrated blades , Frame size - Size : Paediatric, Length:6"	1 each
344	Davis Boyle Mouth Gag with five blades	Half round blunt hook frame with solid serrated blade, Length:7"	1 each
345	Heister Jaw Opener S.S.	Tappered serrated Tip with 'T' Handle Lever, Smooth opening, Length:5½"	1 each
346	Heister Jaw Opener with Spring	Tappered serrated Tip with 'T' Handle Lever with reverse action	1 each
347	Ferguson Mouth Gag - Adults	Serrated Angular Jaw and Double Nut Speed Lock	1 each
348	Cleft Palate Raspatory (Franch Pattern type)	Blunt tip, Serrated round handle, Left & Right, Length:5½"	1 each
349	Cleft Palate Raspatory (Barsky type)	Curved upward , Left & Right, Length:5½"	1 each

350	Cleft Palate Raspatory	Curved upward & Downward, Length:6"	1 each
351	McIndoe Cleft Palate Raspatory D/E	Semi sharp hook, Left & Right side end , S/M/Length, Length:6"	1 each
352	Barsky Pharyngeal Flap Elevator D/E	Blunt edge, round tip	1 each
353	Mitchell Trimmer D/E	Sharp tip at one end, semi blunt elevator at other end, Length:7"	1 each
354	Cleft Palate Knife Triangular	90* bent Triangular both side Sharp edge, Length:7"	1 each
355	Cleft Palate hook - Right Angle	Semi Sharp single hook with thin handle, Length:7"	1 each
356	Cleft Palate hook - Down bent - Single prong	Semi Sharp single hook with thin handle, Length:6"	1 each
357	Cronin Cleft Palate Elevator	Left or Right bend, Hockey Stick Shape, Blunt edge, S/M/Length, Length:6½"	1 each
358	Palate Dissector fibre handle	Half round blunt edge, Left & Right, Length:7"	1 each
359	D/E Spoon Shape Elevator	Semi Sharp Double ended edge, Length:7"	1 each
360	Miller Bone File D/E	Fine serration, Semi sharp, Slightly curved, Length:7"	1 each
361	Elevator D/E Angle Right & Left	Blunt edge, Slightly curved, Length:6½"	1 each
362	Angle to Side & Flat	Blunt edge with one right side & other flat up side ,Length:6½"	1 each
363	Carbon drill Bits	1,1.5,2mm x 3"	1 each
364	S.S.Drill Bits for Hand drill	1,1.5,2mm x 3"	1 each
365	Coated Drill Bits for M.M.	1,1.5,2mm flute dia. X 2.3mm shaft dia. Length At least 65mm(2½"), Flute length Atleast 20mm	1 each
366	S.S.Drill Bits for M.M.	1,1.5,2mm flute dia. X 2.3mm shaft dia. Length At least 65mm(2½"), Flute length Atleast 20mm	1 each
367	S.S.Drill Bits for M.M.	1,1.5,2mm x 100mm length	1 each
368	Schanz Pins	1.5,2,2.35 & 2.5mm x 3" or 4"	1 each
369	Intraoral Distractor for Mandible	2mm hole dia., Distraction Length 10mm TO 25mm , Left & Right	1 each
370	Intraoral Distractor - Vertical - for Alveolar	2mm hole dia., , 2+2 & 3+3 Holes	1 each
371	For Maxilla L & R	2mm hole dia.	1 each
372	External Mandibular Distractors - Uni-directional	2.35mm hole dia. 4" Long	1 each
373	Bi-directional	2.35mm hole dia. 4" Long	1 each
374	External Fixator for Finger	1.5 & 2mm hole dia. 3" or 4" Long	1 each
375	Screw Driver for Intraoral Distractors	Length:6"	1 each
376	Screw Driver for External Distractors	Length:6"	1 each
377	S.S.Box for Skin Grafting Handle	Length:12½"	1 each
378	S.S.Box for Max Kit with 2 trays	8½" x 5½"	1 each
379	S.S.Box for Bone Plates & Screws - Big		1 each

380	S.S.Box for Bone Plates & Screws - Small	1.5,2,2.5mm, 3½" x 2½"	1 each
381	S.S. General Instrument Box with tray - Small	Multiple holes, 5" x 10½"	1 each
382	Medium	6" x 12"	1 each
383	Big	5½" x 13½"	1 each
384	S.S.Box with 12 Containers for Screws & Plates	5½" x 3½"	1 each
385	Drill Bit Container		1 each
386	K.Wire Container	Silicon Rubber at both end, 6",9",12",16" & 20" Long	1 each
387	Screw Container	Length:1½"	1 each
388	Plate Container	Length:2½"	1 each
389	S.S.General Instrument Box with Silicone Mate small	Total Length 5" x 8", Single Mate	1 each
390	Big	Total Length 9" x 8", Double Mate	1 each
391	Malt Rasp	deep downward serration 8" Long	1 each
392	Bone File/Nasal Raspatories D/E	Diff. Sharp Serration at both end, Length:8"	1 each
393	Killien Nasal Speculum	Tapperred Holo jaw with spring handle, Length:6"	1 each
394	Tendon Tunnelling Forceps	Serrated fine jaw without gap, 8",10" Long	1 each
395	Tendon Stripper	4,5,6mm tip dia., Semi sharp tip 16" Long	1 each
396	Cartilage Crusher	Solid tuff serrated lever,	1 each
397	Gigli saw Export Quality	Length:20"	1 each
398	Gigli Saw Handle in pair	Length:3½"	1 each
399	Gigli Saw Guide		1 each
400	Transbuccal Device	One Cheek Retractor, Two Drill Sleeve & Trocar,	1 each
401	Tessier Maxillary Mobiliser	Serrated Rectangular Tip, Left & Right, Length:7"	1 each
402	Nasal Saw	Sharp edges, Straight, Left & Right, Length:7½"	1 each
403	Finger Saw	downward sharp cutting edge, Length:8"	1 each
404	Tessier Bone Spreader	Blade width 8mm, 6" Long	1 each
405	Fickling Dental Mallet	Diff. Size Head at both end, Flat surface, Length:9"	1 each
406	Nylon faced Hammer - Small	Flat Nylonfaced Surface, 8½"	1 each
407	- Medium	Length:9"	1 each
408	- Big		1 each
409	K.Wire Introducer	hold 1mm to 2mm K.Wire, Length:5"	1 each
410	Wire Twisting Forceps - Thick	Serrated Jaw with No gap, hold up to 30G Wire, Length:6"	1 each
411	Wire Twister - Pencil Type	Length:5"	1 each
412	Calipers - Castrovijeo	Length:3"	1 each
413	Skin Graft Measure	Diff. Working Width at four end, 6" x 4"	1 each
414	Wire Cutters - S.S. XL Qyality	Cutting capacity Max.24G, Min.30G, No gap in jaw, With spring, Length:5"	1 each
415	Top End	Cutting capacity Max.24G, Min.30G, No gap in jaw, With spring	1 each
416	Arch Bar Cutter	Length:6"	1 each
417	Mini Plate Cutter with Alu.Handle	Cut 1.5, 2, 2.5mm Plates, 8" Long, Length:11"	1 each

418	K.Wire Bender/Cutter/Plier - Big	Max.cutting capacity 2mm, Wire bent at 90*, 2mm hole at the tip	1 each
419	K.Wire Bender/Cutter/Plier - Small	Max.cutting capacity 1.5mm, Wire bent at 90*, 1.5mm hole at the tip, Length:6"	1 each
420	Wire Mesh Bender	Smooth round head & deep scoop in jaw, Blunt, Length:8"	1 each
421	Suction cannula - Mastoid	With Cannula Cleaner, No 1,2,3,4,5,6, Length:8"	1 each
422	Suction cannula - Syringe Fit	No.2,3,4,5, Length:9"	1 each
423	Tongue Depressor - Fenestrated	Front blade width - with hole	1 each
424	Serrated	Front blade width -	1 each
425	Bone Trepine - 'OM' S/M/L	Blunt Outer Sleeve, Sharp Serrated Inner Sleeve, Flat graft pusher. S/M/L, Length:9"	1 each
426	Drill/ Screw/wire Gauge Scale	6" Long	1 each
427	Mouth Prop Set of 3	Semi hard Small, Medium, Large Size Rubber Block with Chain	1 each
428	Scalers Set of 8	Sharp pointed edge, diff. shapes,	1 each
429	Lipo Suction Cannula	3mm,4mm,5mm & 6mm dia., Multiple Holes, Cannulated Handle, 15", 18"	1 each
430	Templet for Recon.Plates	0.6mm thickness, Width & length as per Recon.Plates, Length:6½"	1 each
431	Skin Grafting Handle (Humby's Knife)		1 each
432	MULTIPARAMETER MONITOR	<p>High resolution EL/color graphical display at least 9" size.</p> <p>On off via front panel switch with system control via front mounted buttons or touch panel.</p> <p>Built in battery with capability to run monitors for at least 30 min.</p> <p>Should run mains AC supply of 220 V AC without external transformers/CVT.</p> <p>Interface capability with other monitors and central monitoring station.</p> <p>Facility for storing and displaying trends.</p> <p>Full function audio and visual alarms.</p> <p>Facility for monitoring ECG, SpONIBP, pulse and temperature simultaneously.</p> <p>ECG:</p> <p>Heart rate range :35- 250 bpm</p> <p>Leads: I, II, III</p> <p>Gain : 0.5-2 mV/cm</p> <p>Defibrillator protection: yes</p> <p>Input impedance:>10 M ohms</p> <p>NIBP: For adult as well as pediatric / infant patients.</p> <p>Range :30 to 250 mm Hg for adults</p> <p>25 to 80 mm Hg for pediatrics</p> <p>1.5 to 3.5 mm Hg for infant</p> <p>b) : _+5 mm Hg</p> <p>c) Display of systolic, diastolic and mean arterial pressure.</p> <p>d) Manual and auto modes of measurement ranging from 1 to 90min.</p> <p>11. Pulse oximetry:</p> <p>a) SPO2 range: 40 to 100%</p> <p>Resolution : 0.1%</p> <p>Pulse rate : 30-240bpm</p> <p>Invasive BP monitoring (for CVP measurements also).</p> <p>Reusable pressure transducer (2).</p> <p>Rang : -40 to 320mm Hg.</p> <p>Optional modules – to be quoted separately.</p>	1

		<p>Respiration.</p> <p>Method: impedance measurement.</p> <p>Accuracy : $\pm 2\%$</p> <p>Sensitivity : 2-6 ohms</p> <p>Range: 4-125 breaths/min.</p> <p>Temperature :</p> <p>Range: 20 to 45deg C</p> <p>Accuracy : ± 0.1deg C</p> <p>EtCO₂ :</p> <p>Method: side stream / mainstream with IR absorption.</p> <p>Accuracy ± 3mm Hg</p> <p>Rang : 0-99 mm Hg</p> <p>Miscellaneous :</p> <p>Should comply with international standards and CE marked.</p> <p>At least 2 seats of sets of spare probes / leads with each module except NIBP and temperature.</p> <p>Stand / trolley integrated with each monitor.</p> <p>Warranty for two years from date of installation.</p> <p>AMC for five years after warranty period .</p> <p>Company should quote rates for all accessories and consumables.</p> <p>The equipment should be designed to comply with existing international standards in term off safety and performance i.e ISO 9001. IEC 601, CE.</p> <p>All tenders to be supported by original brochure containing the details of the technical specifications of the product.</p> <p>The firm will have to demonstrate the equipment at the institution before opening of the price bid at there own cost.</p>	
433	ANESTHESIA DRUGS TROLLEY	<p>Should be a light- weight cart with buffer rails mounted on castors (12 cm diameter minimum).Two of the castors should be lockable</p> <p>Should have two vertical rows of five drawers , side by side to hold anesthesia drugs and fluids and I/V access equipment etc.</p> <p>they should be lockable with single lock for topmost drawer on each side</p> <p>Should have at least 8 small bins side by side on the top to hold ampoules of emergency drugs.</p> <p>Should be made of rust proof stainless steel.</p>	One each is 2 ots, recovery, pre-op holding
434	PATIENT TRANSFER / RECOVERY/ RESUSCITATION TROLLEYS	<p>Should be universal procedure trolleys for emergency rooms ,</p> <p>patient shifting from or ICU or PACU.</p> <p>Should have patient weight bearing capacity of at least 170kgs.</p> <p>Should be made of stainless steel and rust proof materials.</p> <p>Dimensions (minimum required patient surface), length 190 cms and width 75 cms.</p> <p>Should be convenient to move in all directions with castors (size 180mm that lock from any corner with central lock mechanism and staring control from all four corners.</p> <p>Should have hands free pneumatic / hydraulic assist positioning for height adjustment (at least 60-80cms)</p> <p>Should have facility for trendelenburg and reverse trendelenburg Positions (at least 10 degrees)</p> <p>Should have pneumatic or manual crank fowler control (9-90 degrees)</p> <p>Should have provision for quick release of elevated head end.</p>	2

		<p>Should have tuck away / fold down adjustable light weight safety side rail with self locking mechanism.</p> <p>Should have detachable head and foot panels. Foot end panels should have holding bracket for transport ventilator and transport monitor. Head end panel should have holding bracket for patient files and record sheets.</p> <p>Should have one oxygen cylinder bracket and utility tray beneath mattress base.</p> <p>Should have steel adjustable I/V drip rod with double holding hooks .I/V drip rod holding position should be present at each corner of the trolley.</p> <p>Should have pushing rubberized bumper handles at both ends.</p> <p>Should have P.U. form mattress with vinyl PVC cover- 50mm Thick- removable for patient surface.</p> <p>The equipment shall be displayed the Dr HSJ Institute of Dental Science, for technical evaluation at the cost of the company.</p> <p>Should provide at least 2 years warranty, and 5 years CMC.</p>	
435	BAINS CIRCUITS	<p>1. Length of bains circuit should be at least 180 cm.</p> <p>2. Should have diameter - inner tube = 7 cm</p> <p>3. Should have diameter - outer tube = 22 cm.</p> <p>4. Should have APL VALUE.</p> <p>5. Should have 2 litre reservoir bag.</p> <p>6. Should be convenient to use for manual ventilation by means of either:</p> <p style="padding-left: 20px;">a) 2 metre extension of the inner tube which connects to the common gas outlet of the anesthesia machine.</p> <p style="padding-left: 20px;">b) 1.5 - 2 metres of 22 mm ID tube interposed between the machines and of the circuit and the reservoir bag.</p> <p>7. Should have right angle connector with a port for ETCO2</p> <p>8. Should have a 't' piece.</p>	1
436	ANAESTHESIA MASKS	<p>Should be transparent, made of silicon.</p> <p>Should have inflatable air cushion for good seal .</p> <p>Should be suitable for connection to all anaesthesia systems .</p> <p>Sizes :</p> <p>Small (adults) = 4 nos.</p> <p>Medium (adult) = 4 nos.</p> <p>Large (adult)= 4 nos.</p>	
437	OXYGEN CYLINDER	<p>D-type, capacity=7.1 m3 =7000 litre.</p> <p>2. Should be made of steel in order to withstand high pressure.</p> <p>3. Should be color coded to have white, red and black body.</p> <p>4. Should have certificate of quality standards from BIS.</p> <p>5. Should have accompanied certificate of safety from the department of Explosives, Nagpur, India.</p> <p>6. Should have essential marks of task pressure, chemical formula of cylinder Content etc. engraved on the cylinder.</p>	4
438	NITROUS OXIDE CYLINDERS	<p>1. D-type, capacity=7.1 m3 =7000 litre.</p> <p>2. Should be made of steel in order to withstand high pressure.</p> <p>3. Should be color coded and standard blue.</p> <p>4.Should have certificate of quality standards from BIS.</p> <p>5. Should have accompanied certificate of safety from the department of Explosives, Nagpur, India.</p> <p>6. Should have essential marks of task pressure, chemical formula of cylinder content etc. engraved on the cylinder.</p>	2

439	ADULT CPR MANIKIN	<p>Should be supplied in form of torso.</p> <p>Should be of light weight (<20kg) and capable of long product life (5 years).</p> <p>It should have palpable and visual landmark for cardiopulmonary resuscitation.</p> <p>During each compression carotid plus should be felt in the neck.</p> <p>There should be monitoring unit for correct/ incorrect hand position and correct/ incorrect chest compression depth.</p> <p>It should be capable of head tilt, chin lift and jaw thrust.</p> <p>It should simulate rise and fall of chest during ventilation.</p> <p>There should be monitoring for volume of air insufflated into the lungs and should also indicate insufflations of stomach.</p> <p>It should be cable of teaching defibrillation and should be compatible with all standard brands and types of defibrillators.</p> <p>It should have programmed scenarios for defibrillation.</p> <p>It should be upgradable for training in variety of resuscitation scenarios, advance life support and attachment to a computer.</p> <p>Should be accompanied by all accessories and carry case.</p> <p>It should be provided with a two- year warranty and rate for five years CMC to be quoted separately.</p>	1															
440	OPERATING MICROSCOPE 6- STEPS MAGNIFICATION	<p>Compact Microscope body floor mounted on four castors.</p> <p>Should have binocular head of 0-180 degree inclinable head.</p> <p>Should have 32mm depth of field.</p> <p>Should have six steps turret magnification system (i.e. 2.3x, 3.2x, 5x, 8.2x, 12.8x and 19x) with 250mm objective lens.</p> <p>Should have large view of field (i.e. 72mm, 50mm 20mm 13mm and 9mm) in respect of above magnifications.</p> <p>Should have dual light source: 50w Bright white Metal Halide with 2000 Hours life with a standard 12v 100w Halogen as Backup.</p> <p>Should have True Coaxial through the lens illumination.</p> <p>Should have HD video camera capable system with accessories attached.</p> <p>Should have 10x wide Field Eyepieces with (12.5x and 20x should be available for future up gradation) .</p> <p>Should have f=250mm Objective lens standard.</p> <p>Should be supplied with fixed/inclined binocular head for assistant head fitted on beam splitter.</p> <p>Should have Warranty of 2 years.</p>	1															
441	DIATHERMY MACHINE (ELECTRO SURGICAL CAUTERY)	<p>A trolley mounted, multi-purpose solid state Electro Surgical Unit (without output</p> <p>Power fluctuations) with:</p> <p>The output circuit isolated form ground.</p> <p>Modes: Unipolar (Cutting, Coagulation & Blend) & Bipolar (Cutting & Coagulation).</p> <p>Output power (approx)</p> <table data-bbox="459 2037 1455 2306"> <tr> <td>Cutting</td> <td>:</td> <td>300w</td> </tr> <tr> <td>Blend</td> <td>:</td> <td>150w / 300w</td> </tr> <tr> <td>Coagulation</td> <td>:</td> <td>120w.</td> </tr> <tr> <td>Bipolar Output</td> <td>:</td> <td>50w.</td> </tr> <tr> <td>Power</td> <td>:</td> <td>200 to 230 V, AC 50 Hz with Indian Plug.</td> </tr> </table> <p>The unit should have digital display of output power in various modes of operation.</p> <p>The unit should have facility of output status monitoring by sound (continuous-</p>	Cutting	:	300w	Blend	:	150w / 300w	Coagulation	:	120w.	Bipolar Output	:	50w.	Power	:	200 to 230 V, AC 50 Hz with Indian Plug.	1
Cutting	:	300w																
Blend	:	150w / 300w																
Coagulation	:	120w.																
Bipolar Output	:	50w.																
Power	:	200 to 230 V, AC 50 Hz with Indian Plug.																

		<p>Cutting mode etc.)</p> <p>Audible & visible warning against malfunction and disconnection of ground plate.</p> <p>Time limit monitor to prevent major damage due to unintentional damage.</p> <p>Activation via finger switch and pedals for unipolar and bipolar use.</p> <p>Safety requirements and color codes should comply with IEC standard.</p> <p>With accessories like:-</p> <table border="1"> <tr> <td>Plate for electrode with cord-</td> <td>1 piece.</td> </tr> <tr> <td>Bipolar forceps with cord-</td> <td>1 piece.</td> </tr> <tr> <td>Foot switch</td> <td>- 1 piece.</td> </tr> <tr> <td>Electrodes</td> <td>- 1 set (12 Nos.)</td> </tr> <tr> <td>Earth cord</td> <td>- 1 piece.</td> </tr> <tr> <td>Electrode chuck handle</td> <td>- 2 pieces.</td> </tr> <tr> <td>Dust cover</td> <td>- 1 piece.</td> </tr> </table> <p>The product should be supplied with suitable portable trolley on castor to house the unit and UPS of adequate rating (ISI mark) for back up of 30 minutes.</p> <p>The product should be CE Marked or BIS approved.</p> <p>Warranty : 2 years from the date of installation</p> <p>CMC for 2 years after the expiry of warranty period</p>	Plate for electrode with cord-	1 piece.	Bipolar forceps with cord-	1 piece.	Foot switch	- 1 piece.	Electrodes	- 1 set (12 Nos.)	Earth cord	- 1 piece.	Electrode chuck handle	- 2 pieces.	Dust cover	- 1 piece.																	
Plate for electrode with cord-	1 piece.																																
Bipolar forceps with cord-	1 piece.																																
Foot switch	- 1 piece.																																
Electrodes	- 1 set (12 Nos.)																																
Earth cord	- 1 piece.																																
Electrode chuck handle	- 2 pieces.																																
Dust cover	- 1 piece.																																
442	TRANSPORT VENTILATOR	<p>Should be microprocessor controlled, suitable for adult and pediatric patients.</p> <p>Should have invasive with control, assist/control, SIMV, CPAP and Apnea back up ventilation modes.</p> <p>Volume control, pressure control and pressure support ventilation</p> <p>Should have the range of</p> <table border="1"> <tr> <td>a.</td> <td>Tidal volume</td> <td>50-2000ml</td> </tr> <tr> <td>b.</td> <td>Respiratory rate</td> <td>0 to 60/mt.</td> </tr> <tr> <td>c.</td> <td>Flow rate</td> <td>5-100 lt/mt</td> </tr> <tr> <td>d.</td> <td>Inspiratory time control cycle</td> <td>0.1 sec-3 sec (Time cycle operation)</td> </tr> <tr> <td>e.</td> <td>Oxygen delivery</td> <td>21-100% through oxygen blender</td> </tr> <tr> <td>f.</td> <td>Peak inspiratory pressure</td> <td>0-100 cm H₂O</td> </tr> <tr> <td>g.</td> <td>CPAP/PEEP</td> <td>0-20 cm H₂O</td> </tr> <tr> <td>h.</td> <td>Pressure support/ASB</td> <td>0-35 cm of H₂O or above</td> </tr> </table> <p>Should have automatic adjustment of flow at low airway pressure for delivering set tidal volume</p> <p>Should have real time monitoring of peak and plateau pressure, CPAP/PEEP, Inspired/expired minute volume, Inspiratory rate, FIO₂</p> <p>Should have audio visual alarms, alarm silence and reset facility should be available.</p> <p>Should work on gas supply from a central gas supply system or from a medical gas cylinder.</p> <p>Should be possible to operate from a variety of power sources including AC power, external/internal batteries, stand by time for batteries should be in the range of 60-120 minute.</p> <p>The ventilator should be supplied with</p> <table border="1"> <tr> <td>a.</td> <td>Adult circuits - 2 sets</td> </tr> <tr> <td>b.</td> <td>Rechargeable batteries - 2 sets</td> </tr> <tr> <td>c.</td> <td>Base to mount ventilator</td> </tr> </table> <p>2 year warranty</p> <p>5 years CAMC rates to be quoted separately.</p> <p>Equipment to be displayed for technical evaluation at Dr H S J Institute for evaluation at the expense of the company</p>	a.	Tidal volume	50-2000ml	b.	Respiratory rate	0 to 60/mt.	c.	Flow rate	5-100 lt/mt	d.	Inspiratory time control cycle	0.1 sec-3 sec (Time cycle operation)	e.	Oxygen delivery	21-100% through oxygen blender	f.	Peak inspiratory pressure	0-100 cm H ₂ O	g.	CPAP/PEEP	0-20 cm H ₂ O	h.	Pressure support/ASB	0-35 cm of H ₂ O or above	a.	Adult circuits - 2 sets	b.	Rechargeable batteries - 2 sets	c.	Base to mount ventilator	1
a.	Tidal volume	50-2000ml																															
b.	Respiratory rate	0 to 60/mt.																															
c.	Flow rate	5-100 lt/mt																															
d.	Inspiratory time control cycle	0.1 sec-3 sec (Time cycle operation)																															
e.	Oxygen delivery	21-100% through oxygen blender																															
f.	Peak inspiratory pressure	0-100 cm H ₂ O																															
g.	CPAP/PEEP	0-20 cm H ₂ O																															
h.	Pressure support/ASB	0-35 cm of H ₂ O or above																															
a.	Adult circuits - 2 sets																																
b.	Rechargeable batteries - 2 sets																																
c.	Base to mount ventilator																																
443	VENTILATOR	<p>One ventilator, for use in the Postoperative ward.</p> <p>Should be a microprocessor based unit with the following specification:</p> <p>Suitable for both adult and pediatric patients</p> <p>Should operate in IPPV, SIMV, CPAP & NIV modes with:</p>	1																														

Volume control ventilation should be available in CMV / SIMV mode:
Pressure control ventilation should be available in CMV / SIMV mode:
PSV in SIMV/CPAP mode.
Should operate with pneumatic gas source as well as compressor must be an integrated part of equipment.
UPS back up of at least one hour for compressor and ventilator must be provided.
Different colour code for different settings/alarms, preferably with knob control.
Patient Monitoring
Real Time Curves
Breathe by breath display of at least pressure flow volume Vs time & pressure.
Volume pressure or flow volume loops.
Trending Curves: Should be able to give trends of selected parameters for up to 24 hours at least.
Display of Ventilation / patient parameter & alarms.
Display should be on coloured TFT screen / TFT Touch screen.
They should be visible from reasonable distance.
Display should be adjustable for optimal visibility.
Capable of displaying min. of 2 wave forms/curves at a time.
It should be able to display
Total Breath rate
Spontaneous breath rate
Exhaled tidal volume
Exhaled minute volume
Fio2%
Peak flows
Peep/CPAP
There must be a provision for calculation and display of respiratory mechanics like:
Compliance/ resistance.
Dynamic mechanical monitoring
Plateau pressure / peak pressures
Auto PEEP
Sittings Machine must have provision for following settings.
Tidal Volume :30 to 200ml
Respiratory rate : 1-100cycles/min
Flow : 6l/pm to 150 l/min
Flow pattern : square, decelerated.
Inspiratory Plateau : 0-60%insiratory time.
PEEP/CPAP : 0 to 35cm H2O
Pressure Support : 0 to 70cm H2O
O2 : 2l TO 100%
Trigger sensitivity : Flow 1-15 Lpm all patient initiated breath
: Pressure: 1to 10 cm below PEEP
I:E ratio : Inverse ratio up to 4:1
Apnoea backup
100% Oxygen : For at least 3mintus for suction.
Alarms: Must have followings alarms.
Pressure : Min/max
O2 : Minimum / high oxygen.
Low exhaled tidal volume.
High respiratory rate.
Low PEEP/CPAP pressure.
Patient disconnection.
Apnoea ventilation.
Main power, air oxygen supply failure.
Machines should have power on self test and extended self test for safety.
Following accessory must be provided with the machine.
Reusable patient filter (2) at least .(per machine)

		Patient's circuits (Reusable) Adult & Pediatric (2 adult 1 pediatric). Humidifier , water traps and Nebulizer. Non – invasive CPAP mask with harness (2 Nos). Should have facility for software upgradation. Power supply 220V AC. 2 year warranty , 5 years CAMC rates two be quoted separately. The equipment two displayed at DR HSJ institute at the company expense before purchase.	
444	DIGITAL INTRAORAL RADIOVISIOGRAPHY SENSOR AND SOFTWARE	The equipment should have the following: DIGITAL INTRAORAL SENSOR SPECIFICATIONS The equipment should have the following: Sensor with following features: - Size Adult (Size-1) - Option of Size '0' (Pedo) and Size '2' (Extra-large) - Thickness not more than 5 mm Based on CCD/CMOS-APS Technology - Directly adaptable to USB 2.0 Port Round edges and maximum reach inside the mouth - Sensor Active Area should range from 430 to 925 mm ² - Sensor Life of 350,000 Exposure or more Sensor should be detachable from USB Interface - The sensor cable length should be at least 1.5 mtr - USB Cable length should be at least 2 mtrs (preferably 5mtrs) Imaging Software Features: - should allow for faster & easier exposure; no hardware or computer reset should be required between two successive x-ray shots Automatic acquisition and save mode - No time-out of sensor system while waiting to take intraoral xray - No re-setting of hardware and/or software between two x-rays - Ability to do Horizontal / Vertical / Line Histograms - Sharpening / Cleaning / Improving Features - Single Click enhancement for under / over exposed images - Support for multiple database archive - Multiple Patient search criteria - Automated Microsoft Word report templates TWAIN Support for direct scanning acquisition - Emboss image enhancement - Localized enhance feature - Ability to e-mail x-ray exams directly from software and to read exams from e-mail - Should work on Windows 7, Vista and XP Prof - The image management software should be DICOM compliant.	5
445	Composite kits	3M/ Dentsply/ Coltene	3
446	Composite polishing kits	Enhance or Equivalent	3
447	Ceramic finishing kits	Shofu or Equivalent	2

448	Metal finishing kits	Shofu or Equivalent	
449	Amalgam finishing kits	Shofu or Equivalent	
450	Electro Hydraulic O.T.TABLE C ARM COMPATIBLE	<p>A versatile Operation Table for General Surgery and certain special procedures.</p> <p>Provides smooth, easy and accurate positioning</p> <p>Fully manouverable by Finger tip operated Touch Keys on a Remote Control Hand Switch.</p> <p>a. All parts should are made up of Stainless Steel (304 G)</p> <p>b. Table top completely Radio-lucent</p> <p>c. In built Kidney Bridge</p> <p>d. Split leg rest</p> <p>e. Automatic Floor Locking</p> <p>f. Full length Cassette Tunnel to move X-Ray cassette. Special quick-change clamp to hold cassette firmly in any position.</p> <p>g. Electrically Operated positions</p> <p><input type="checkbox"/> Memberane type, feather touch, hand control, to adjust all Electro-Hydraulic movements. Shock Free, Operating on DC 12V with a flexible cable.</p> <p><input type="checkbox"/> Parallel Operating Switches which is fixed to the table</p> <p><input type="checkbox"/> Raising and Lowering</p> <p><input type="checkbox"/> Trendelenberg to reverse trendlenberg 30 deg with automatic sensor leveling device which stops table when it reaches 100% level to restart on activating switch again</p> <p><input type="checkbox"/> Lateral tilt left to right 28deg with central leveling device which stops table when it reaches 100% level to restart on activating switch again</p> <p><input type="checkbox"/> Back rest 80 deg upright to 10 deg downward</p> <p>f. Mechanical & Other adjustments :</p> <p>- Leg rest mechanical movement from parallel to 90 deg downward</p> <p>- Head Section - moved mechanically, detachable for fixing neuro Head Rest;</p> <p>- Table mounted on Castor wheels. Its movements in the Operation Theatre should be smooth.</p> <p>- Brake for firm and rigid locking of table;</p> <p>- When the Brake is released the table is free to move on its castors.</p> <p>The Movement should be controlled by high pressure Electro Hydraulic System to achieve smooth and efficient operation, without the slightest jerk at start/end.Manifold should has Flow Control Valves for adjusting the desired speed of the table movement to high accuracy.</p> <p>Hydraulic Motor Pump with long operating life is fitted with Anti-Vibration mountings and Auto Thermal Cut-off.</p> <p>DIMENSIONS :</p> <p>Length : 1800 to 1900 mm approximately</p> <p>Width : 500mm to 550mm approximately</p> <p>ELECTRO-HYDRAULIC MOVEMENTS :</p> <p>I) Raising & lowering</p> <p>a) Minimum height : 700mm to 800 mm approximately</p> <p>b) Maximum Height : 1000 to 1100 mm approximately</p> <p><u>Standard accessories:</u></p> <p>Arm Board 2 Nos</p> <p>Lateral Support 2 Nos</p> <p>Universal Lateral Support 2 Nos</p> <p>Knee Crutches complete 2 Nos</p> <p>Anaesthetic Screen frame 1 No.</p>	1

		Shoulder support complete	2 Nos	
		<u>Additional accessories to be quoted separately</u>		
		1. General purpose head Support		
		2. Raised Arm Board		
		3. Cassette Tray with adjustable Rod		
		4. Cassette Holder		
		5. Lateral Cassette Holder		
		6. Knee rest		
		7. Douche Tray- Hanging type		
		8. Stainless Steel Stand to mount all attachments		
		9. Orthopaedic Attachment		
		10. Battery Back up		
		11. Top sliding		
451	Piezo ultrasonic surgery kit	Annexure C		1
452	Hard/soft tissue dental laser	Annexure E		1
453	Digital panoramic x-ray with Dicom printer	Annexure F		1

454	PEDIATRIC CIRCUITS	1. Should have 500 ml reservoir bag with an open end	2
		2. Should have a right angle connector with a port for ETCO2	
		3. Should have 2 meters long tubing for fresh gas flow with a 15 mm OD connector to connect to anaesthesia machine	
		4. Should have at least 60 cm long corrugated tubing connected to reservoir bag	
		5. Should have a T-piece	
455	PULSE OXIMETER	Should run on both 220 V AC and in-built rechargeable battery Fully Charged battery should run for at least one hour	1
		Display of digital oxygen saturation and pulse rate	
		Display of plethysmographic waveform	
		Adjustable audible and visible alarms for low and high saturation and pulse rate	
		Change in pitch of audible pulse tone with saturation	
		Selectable response time	
		Should be supplied with at least 2 wrap type, 2 finger and 2 ear lobe probes	
		Data out put port (RS 232 compatible)	
		Warranty for 2 years and C.M.C for 5 years after warranty	
456	GLUCOMETER	Should be based upon glucose oxidase method	1
		Should use plasma glucose as reference for calibration	
		Should have a testing time of less than 20 seconds	
		Should have a result range of 20-600 mg/dl	
		Should display results in both mg/dl and mmols/l	
		Should be able to operate with a 3V batter	
		Should have a long batter life to conduct minimum of 1000 tests	
		Should have a memory of minimum 150 test	
		Should provide a automatic shut/off facility	
		Should provide the instrument as well as maintenance free of cost	
		Should conform to BIS/ISI/CE or equivalent standards	

		SPECIFICATION FOR GLUCOSTIXS	
		Should be based on glucose oxidase method	
		Should be compatible with the glucometer supplied	
457	Portable dental chair		2
		chair should be light weight and sturdy, has a strong padded case and safe for upto 150-200 Kg and has provision for adjustable back from upright to supine position and seat height. It should be foldable for carrying into field.	
458	Portable suitcase unit with compressor	A compact suitcase in which all desired equipments mentioned below are fitted-	2
		Saliva ejector -1	
		3way-syringe-1	
		Air rotor point-1	
		Micromotor point-1	
		Ultrasonic Scaler (2no) - It should be piezotronic scalar of 30 Khz frequency. Autoclavable Hand piece total control is micro processed based control unit. The scalar should be supplied with 3 tips. Preferably of EMS make or its best equivalent	
		Compressor (1no.) – should be Oil-free, Medical grade Mono-bloc of 0.75Hp power and be of compact dimension with a handle attached to carry it. Should have a air release and drain valve	

Consumables			
459	ELISA KIT for	(Placental growth factor (96 wells)	2 Nos
460		Plasma protein 13	(96 wells) – 2 Nos.,
461	Adjustable micropipette (1 ml)		1 Nos
462	Adjustable micropipette (5 ml)		1 Nos
463	ELISA KITS		
464		s CD40 ligand	1 Nos
465		CXCL5	3 Nos
666		CXCL16	3 Nos
467		Amyloid A	3 Nos
468		MIP-1 α	3 Nos
469	Alginate	Packing of 250 gms, regular setting, chromatic,	500 Pkts
470	Alloy Powder	Fine Grain 30 gms	100 bottles
471	Exam. Gloves Small	Pkt of 50 pairs The gloves should meet minimum AQL standards particularly w. r. t. tensile strength, elongation, texture, barrier integrity and size.	1000 pkts
472	Exam. Gloves Medium	Pkt of 50 pairs The gloves should meet minimum AQL standards particularly w. r. t. tensile strength, elongation, texture, barrier integrity and size.	400 Pkts
473	GIC Luting	Powder 35 gms, Liquid 20 ml	25 Pkts
474	Hand Disinfectant	Bottle of 500 ml	200 Bottles
475	Putty Wash Material with Light Body	(putty soft-base paste-250 ml, catalyst past-250 ml), (Light body-base paste/catalyst paste 100 ml. mixing tips-10	20 Set
476	Mercury	Bottle of 225 gms	60 Bottles
477	X Ray Films	IOPA Adult (pack of 150) Kodak	300 Pkts
478	X Ray Films	IOPA Pedo (pack of 150) Kodak	50 Pkts
479	Gel Documentation	Electrophoresis time 5 min. GNA electrophoresis Storage conditions 4-5 Months at Room Temperature Separation range 50 bps – 10kb DNA Well Volume 55ul Dimension of Gel 70mm (L) x 84mm(W)x2mm(H) Dimension of tray 115mm (L) x 107mm(W)x17mm(H) Recovery time of sample 1-5 mins.	1
480	Ultra low freeze (-80 $^{\circ}$ C)	(a) CFC-free refrigeration (b) Exterior: 18 gauge steel, 1.2mm thick. Powder coated. (c) Interior: Top Quality, Polished 304L Stainless steel. (d) Internal capacity should be in the range of 400 -430 liters. (e) 5 compartments with four adjustable shelves. (f) Insulation: Urethane insulation (g) Lowest attainable temperature of -80 $^{\circ}$ C at the ambient temperature	1

		<p>range of 32°C.</p> <p>(h) Membrane keypad eye level control panel.</p> <p>(i) Door Latch: Molded handle with built in removable lock.</p> <p>(j) Battery back up: Activate alarms and displays during power outages.</p> <p>(k) Microprocessor based functionality.</p> <p>(l) Minimum of 5 year warranty for compressor and refrigerant</p> <p>(m) alarm for power failure, high low temperature, battery low, filter clean and fault analysis.</p> <p>(n) Alarm and temperature should be adjustable with in 1 degree increments.</p> <p>(o) Inbuilt diagnostic software provides fault codes to trace and solve system error.</p> <p>(p) On off switch and On off Alarm should be lockable</p> <p>(q) 4 digit password for set point security</p> <p>(r) CE, UL, WEEE Directive certified</p> <p>(s) Automatic Reset: Protect the microprocessor controller from failure caused by Power Spikes.</p> <p>(t) Automatic returns alarm and set points to user –programmed level after power interrupted.</p> <p>(u) Power consumption not more than 525 watt. Pull down Time should not be more than 4.1 hrs.</p> <p>(v) (W) System should provide with 5KVA voltage stabilizer should provide 3 racks along with 24 boxes and divider.</p>		
481	Chemicals	Blood DNA isolation kit	100 reactions	3
		(5' GAATACGTCCTGACACGCCT-3')	20nm	3
		(5' GCCAGCTGCACAGGAAGGACAT-3')	20 nm	3
		(5' CCT GGTCCCTCCCCAACACT-3')	20nm	3
		(5' T C T G A G A A C A A G C C C T-3')	20nm	3
		(5' T C T G A G A A C A A G C C C T G A G A-3')	20nm	3
		Hinf (Restriction Digestion Enzyme)	2500U	3
		Bsa01 (Restriction Digestion Enzyme)	2500 U	3
		Ban II (Restriction Digestion Enzyme)	2500U	3
		Taq DNA polymerase	1000U	3
		4 dNTPs	4 x 10mM	3
		Sodium borohydrate	500g	3
		N-(2 mercaptopropioly) glycine	500 g	3
482	Glassware	EDTA disposable plastic vials (3ml.)		200
		Disposable syringe (5 ml.)		200
		Big Cotton Bundles		03
		Spirit Bottles (1 Ltr.)		05
		Yellow Tips		1000
		White Tips		1000
		Adjustable micropipette (1 ml.)		02
		Adjustable micropipette (5ml.)		02
		Adjustable micropipette (10 ml.)		02
		Tissue Rolls		12
		Glass Beaker's (100 ml.)		20
		Glass Beaker's (250ml.)		20
		Glass Beaker's (500 ml.)		20

DENTAL CONSUMABLE ITEMS				
Sr.No.	Item	A/U	QTY	Make & Equivalent (The items quoted should be of the make specified or its equivalent)
483	Agar Agar	Kg	5	
484	Amalgam Polishing Kit	Kit	20	Shofu
485	Applicator Tips	Pkt	100	Imorted, 3M, Dentsply
486	Base Plate	Pkt	60	Deepti
987	Betadine Scrub Bottle of 500 Ml	Bott	50	Ranbaxy
488	Betadine Solution Bootle of 500 Ml	Bott	50	Ranbaxy
489	Bonding Agent 6 gms	Bottle	75	3M, Dentsply, Coltene
490	Bone Graft Material Sterile, biocompatible, Synthetic bone graft containing B tricalcium phosphate Granule Size	Pkt	2	
491	Broaches	Pkt	75	Mani, Shofu
492	Burs Air Rotor Crown Cutting All Shapes	Pkt	500	Mani, Shofu
493	Burs Air Rotor for Cavity Preparation All Shapes	Pkt	750	Mani, Shofu
494	Burs Bone Cutting	No	50	SS White
495	Burs Carbide Round & Straight Fissure Inverted	No	150	SS White
496	Burs Diamond for CAMM	Pkt	100	Mani
497	Burs MM Aerylic Trimmer-Flame Round	Pkt	50	Mani, SS White
498	Cal Excel (Light Cure Radio Opaque)	Syr	20	Septodont, Dentsply
499	Calcium Hydroxide Powder	Bott	75	
500	Calcium Hydroxide Paste with Idoform	Syr	50	Dentsply, Meta
501	Calcium Hydroxide Two Paste	Pkt	50	Septodont
502	Carbide Cutter Flame & Tapered	No	50	SS White
503	Catgut 3.0 (4201) Pkt of 12 pcs	Pkt	7	J & J
504	Casting Ring Liner	Pack	3	
505	Ceramic Material	Kit	2	Ceramico, Vita
506	Chlorohexidine Mouth Wash 2%	Bott	50	J & J
507	Composite Flowable 4gms	Syr	60	Synergy, Coltene, Dentsply
508	Composite Posterior Shade	Syr	100	Synergy, Coltene, Dentsply
509	Composite Universal	Tube	200	Synergy, Coltene, Dentsply
510	Composite Finishing Kit	Kit	12	Synergy, Coltene, Dentsply
511	Core Build Up Material Dual Core	Syr	10	Synergy, Coltene, Dentsply
512	Cotton Absorbent 500 Gms	Roll	500	Modern, Surgicot
513	Cotton Roll Dental	Pkt	500	Confident
514	Dappen Dish	No	150	
515	Denture Base Resin			DPI, Dentsply
516	Die Stone	Kg	40	Kalabhai
517	Disp Syr. 5 CC (Box of 100 syrs)	Box	300	Dispovan
518	Disp Syr. 2 CC (Box of 100 syrs)	Box	200	Dispovan
519	Disinfectant Solution for Suctioning	Ltr	20	Lonza, Microgen, Alpro, Raman & Viels or equivalent
520	Disinfectant Solution Surgical Instrument	Ltr	10	Lonza, Microgen, Alpro, Raman & Viels or equivalent
521	Disinfectant Wipe	Pkt	4	Lonza, Microgen, Alpro, Raman & Viels or equivalent
522	Disp Syr. 10 CC (Box of 25 syrs)	Box	30	Dispovan

523	EDTA Gel	Syr	60	Densply, Prevest
524	EDTA Solution	Bottle	70	Densply, Prevest
525	EG Post Screws	Pkt	10	Mani, Dentsply
526	Eugenol	Bott	50	
527	Finishing Stripes	Pkt	10	3 M, Dentsply, Coltene
528	Etchant	Bottle	75	3 M, Dentsply, SS White
529	Face Mask Disposable with Elastic Pkt of 50 pcs three layers	Pkt	500	
530	Face Mask Disposable with String Pkt of 50 pcs three layers	Pkt	200	
531	Formacresol	Bott	5	Septodont
532	Fissure Sealant	Syr	40	3 M, Dentsply, Coltene
533	Fibre Posts	No	5	Coltene, PD, Dentsply
534	Gate Drills 32 MM No 1-6	Pkt	40	Mani
535	G-Coat Plus	Set	10	GC
536	GIC Type II, Light Cure (LC)	Pkt	30	GC
537	GIC Type II, Liq 8 Ml + Pdr -15 Gms	Pkt	100	GC
538	GIC Type IX, Liq 6.4 Ml + Pdr -15 Gms	Set	100	GC
539	GP No 15 Pkt of 120 GP	Pkt	100	Meta Korea, Hygienic, Dentsply
540	GP No 20 Pkt of 120 GP	Pkt	200	Meta Korea, Hygienic, Dentsply
541	GP No 25 Pkt of 120 GP	Pkt	200	Meta Korea, Hygienic, Dentsply
542	GP No 30 Pkt of 120 GP	Pkt	200	Meta Korea, Hygienic, Dentsply
543	GP No 35 Pkt of 120 GP	Pkt	200	Meta Korea, Hygienic, Dentsply
544	GP No 35 Pkt of 120 GP	Pkt	200	Meta Korea, Hygienic, Dentsply
545	GP No 40 Pkt of 120 GP	Pkt	200	Meta Korea, Hygienic, Dentsply
546	GP No 45 -80 Pkt of 120 GP	Pkt	100	Meta Korea, Hygienic, Dentsply
547	Greater Taper GP Points	Pkt	10	Meta Korea, Hygienic, Dentsply
548	GP Points 0.4 Tapers Assorted	Pkt	60	Meta Korea, Hygienic, Dentsply
549	GP Solvent	Bott	30	Septodont
550	Green Stick	Pkt	100	Meta Korea, Hygienic, Dentsply
551	Hydrogen Peroxide Bott of 500 Ml	Bott	80	Generic
552	Hand Niti K Files 15-40	Pkt	40	Dentsply
553	H-Files 21 MM No 10 SS	Pkt	50	Mani
554	H-Files 21 MM No 15 SS	Pkt	100	Mani
555	H-Files 21 MM No 15-40 SS	Pkt	150	Mani
556	H-Files 21 MM No 20 SS	Pkt	150	Mani
557	H-Files 21 MM No 25 SS	Pkt	150	Mani
558	H-Files 21 MM No 30 SS	Pkt	150	Mani
559	H-Files 21 MM No 35 SS	Pkt	100	Mani
560	H-Files 21 MM No 40 SS	Pkt	100	Mani
561	H-Files 21 MM No 45-80 SS	Pkt	100	Mani
562	H-Files 25 MM No 10 SS	Pkt	50	Mani
563	H-Files 25 MM No 15 SS	Pkt	80	Mani
564	H-Files 25 MM No 15-40 SS	Pkt	100	Mani
565	H-Files 25 MM No 20 SS	Pkt	100	Mani
566	H-Files 25 MM No 25 SS	Pkt	100	Mani
567	H-Files 25 MM No 30 SS	Pkt	50	Mani
568	H-Files 25 MM No 35 SS	Pkt	50	Mani

569	H-Files 25 MM No 40 SS	Pkt	50	Mani
570	IRM	Pkt	25	Dentsply
571	Impression Paste	Pkt	60	DPI
572	Investment Material for Ringless & Rings System(Phosphate Bonded)	Kg	10	Bego 29
573	K3 Endodontic Files	Pkt	5	Sybron Endo
574	K-Files 21 MM No 6	Pkt	50	Mani
575	K-Files 21 MM No 8	Pkt	50	Mani
576	K-Files 21 MM No 10	Pkt	200	Mani
577	K-Files 21 MM No 15	Pkt	200	Mani
578	K-Files 21 MM No 20	Pkt	200	Mani
579	K-Files 21 MM No 25	Pkt	200	Mani
580	K-Files 21 MM No 30	Pkt	200	Mani
581	K-Files 21 MM No 35	Pkt	100	Mani
582	K-Files 21 MM No 40	Pkt	100	Mani
583	K-Files 21 MM No 45- 80	Pkt	50	Mani
584	K-Files 25 MM No 6	Pkt	50	Mani
585	K-Files 25 MM No 8	Pkt	50	Mani
586	K-Files 25 MM No 10	Pkt	100	Mani
587	K-Files 25 MM No 15	Pkt	100	Mani
588	K-Files 25 MM No 20	Pkt	100	Mani
589	K-Files 25 MM No 25	Pkt	100	Mani
590	K-Files 25 MM No 30	Pkt	100	Mani
591	K-Files 25 MM No 35	Pkt	50	Mani
592	K-Files 25 MM No 40	Pkt	50	Mani
593	K-Flex Files 21 MM No 15-40	Pkt	100	Mani
594	K-Flex Files 21 MM No 45-80	Pkt	20	Mani
595	K-Flex Files 25 MM No 15-40	Pkt	100	Mani
596	K-Flex Files 25MM No 45-80	Pkt	10	Mani
597	Labolene Liquid Soap	Ltr	100	
598	Lentilospiral 21 MM No 25-40	Pkt	40	Mani
599	Light Curable Post	Kit	10	Parapost
600	Lignocaine Spray	Bott	50	
601	Lignocaine Plain	Vial	200	
602	Lignocaine with Adrenaline 2% (1:200000)	Vial	800	Astrazeneca
603	Lignocaine 2% Gel	Tube	60	
604	Liquid Soap	Bott	300	
605	Lubricant Oil for HPs	Bottle	130	Kavo/W & H
606	Marix Band No 1	Pkt	100	
607	Marix Band No 8	Pkt	100	
608	Matrix Band Tofflemire	Pkt	100	
609	Matrix Band Retainer Ivory No 1	Pkt	10	
610	Matrix Band Retainer Tofflemire	Pkt	10	
611	Metal Polishing Kit	Kit	3	SS White, Shofu
612	Mouth Mirror Top	No	1000	API
613	Myler Stripes	Pkt	50	Dentsply
614	MTA	Pkt	10	Dentsply
615	Paper Point No 15-40	Pkt	50	Meta Korea
616	Paper Points No 15	Pkt	40	Meta Korea
617	Paper Points No 20	Pkt	50	Meta Korea
618	Paper Points No 25	Pkt	100	Meta Korea
619	Paper Points No 30	Pkt	100	Meta Korea
620	Paper Points No 35	Pkt	50	Meta Korea
621	Paper Points No 40	Pkt	50	Meta Korea
622	Paper Points 45- 80	Pkt	50	Meta Korea
623	Para Post	Kit	5	
624	Para Core	Kit	10	
625	Peeso Reamer 32 MM No 1-6	Pkt	40	Mani
626	Plastic Box for Developer & Fixer	No	10	

627	Phenol	Bott	30	
628	Plastic Spatula	No	100	
629	Prophylaxis Paste	Jar	10	
630	Pluggers Hand & Finger No 15-40	Pkt	100	Mani
631	Post Extraction Dressing	Pack	10	Dentsply
632	Protaper Files F1 21 MM	Pkt	25	Dentsply
633	Protaper Files F2 21 MM	Pkt	25	Dentsply
634	Protaper Files F3 21 MM	Pkt	25	Dentsply
635	Protaper Files S1 21 MM	Pkt	25	Dentsply
636	Protaper Files S2 21 MM	Pkt	25	Dentsply
637	Protaper Files SX	Pkt	10	Dentsply
638	Protaper Files Hand SX	Pkt	25	Dentsply
639	Protaper Files Hand F1 25 MM	Pkt	25	Dentsply
640	Protaper Files Hand F2 25 MM	Pkt	25	Dentsply
641	Protaper Files Hand F3 25 MM	Pkt	25	Dentsply
642	Protaper Files Hand S1 25 MM	Pkt	25	Dentsply
643	Protaper Files Hand S2 25 MM	Pkt	25	Dentsply
644	Polishing Wax	Cake	20	
645	Polyether Impression Material	Kg	30	Impragnum
646	Diamond Separating Disc	No	10	SS White, Shofu
647	Pulp Devitalizer	Bottle	18	Septodont
648	Putty Material Tips	Pkt	10	3 M
649	Rapid Repair Powder	Bott	30	Ashvin
650	Rapid Repair Liquid	Bott	30	Ashvin
651	RC Prep/Glyde	Syr	30	GC, Dentsply
652	Resin Cement	Pkt	15	GC Fiji
653	Root Canal Sealer	Set	30	AH Plus
654	Root Canal Sealer	Set	30	Vitapex
655	Rubber Gloves for Washing	Pair	100	
656	Shade Guide	No	5	Vita 3 D Master
657	Race Niti Files Assorted	Pkt	20	
658	Savlon Bottle of 1 Ltr	Bott	50	Ranbaxy
659	Self Curing Material for preparing EPD Shade No. 3.4.5.	Pkt	5	Ashvin
660	Solution for Fumigation	Ltr	25	Lonza, Microgen, Alpro, Raman & Viels or equivalent
661	Self Cure Intraoral EPD	Pkt	2	Ashvin
662	Sodium Hypochlorite Solution	Bottle	150	Prevest
663	Spirit for Lamp	Ltr	1000	Mani
664	Splinting Material	Pkt	2	Made of fibre glass, Thickness app. 0.35mm, Binds to both composite and acrylic, Multiflex Orthodontic Wire
665	Spreader Finger 21 MM No 15-40	Pkt	100	Mani
666	Spreader Hand	Set	35	Mani
667	Sprue Wax of Different Sizes	Roll/Pkt	1 of Each Size	Bego
668	Suction Tips Disposable (Pkt of 100)	Pkt	800	Dentoplast
669	Surgical Blade No 11	Pkt	25	Glass Van
670	Surgical Blade No 15	Pkt	25	Glass Van
671	Suture 3.0 (5028) Pkt of 12 Pcs	Pkt	50	
672	Surg Gloves 6.5 Size Pkt of 25 pairs	Pkt	25	Lightly powdered, Anatomic Shape, Beaded Cuff, Textured surface with size embossed
673	Surg Gloves 7.0 Size Pkt of 25 pairs	Pkt	25	---- Do ----
674	Surg Gloves 7.5 Size Pkt of 25 pairs	Pkt	50	---- Do ----
675	Teeth Set Anterior	Strip/Set	300	Rolex

676	Teeth Set Complete/Complete	Set	300	Premadent
677	Teeth Set, Highly Cross Link	Set	75	Confident
678	Temporary Filling Material (Ready Mix)	Bottle	120	Meta
679	Temporary Luting Cement Eugenol Free	Pkt	5	3 M
680	Twisted Files	Pkt	20	Sybron Endo
681	Solution for Fumigation	Ltr	20	Lonza, Microgen, Alpro, Raman & Viels or equivalent
682	Vicryl 4.0 Pkt of 12	Pkt	10	J & J
683	Varnish	Bott	24	
684	Vaseline	Jar	50	Agarwal
685	Veneer Cement	Pkt	5	
686	Wedges	Pkt	30	
687	X-Ray Hangers Single	No	20	
688	Zinc Phosphate Cement	Pkt	50	Harward
689	Zinc Oxide Cement (Eugenol Free)	Pkt	60	
690	Zinc Polycarboxylate cement	Pkt	10	
700	Zinc Oxide Cement Free	Pkt	40	

ANNEXURE – D
(To be returned with the Technical Bid)

Terms and conditions of the Agreement to be executed by successful Tenderers.

This Agreement regarding the supply, installation and maintenance of _____ made this day _____ Two thousand and _____ by and between Panjab University, Chandigarh, represented by The Principal cum Professor Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Panjab University, Sector-25, Chandigarh (Hospital/user) (herein after referred to as the First Party) and M/s _____ and their agents _____ (hereinafter referred to as the “Second Party and “Third Party” respectively) which expression shall unless specifically excluded by or repugnant to the context include their Heirs, Executors, Administrator, Legal Representatives and Assignees. The second party may nominate their agent if they so desire and inform the First Party in writing about such appointment. It is further stipulated that notwithstanding anything else in this Agreement, the Second Party shall inform the First Party in writing about the change of such agency. Further, the new agency shall remain bound by the present Agreement irrespective of any arrangement written or otherwise between the Second Party and its agents to which agreed that this Agreement will be binding on all parties collectively and separately.

2.0 THE AGREEMENT :

- 2.1 This Agreement concerns the supply installation and commissioning of _____ equipment on turnkey basis to be supplied by the Second Party and Third Party according to Supply _____ Order(s) No. _____ Dated _____ and their Proforma Invoice No. _____ dated _____ a copy of which is appended (Annexure____) . Further, the equipment is to be installed by the Second Party and the Third Party at the designated premises of the first party according to the schedule agreed upon as stated below.
- 2.2 The Second Party and Third Party agree to supply, install and commission the entire equipment within the period of **84 days** after the opening of the Letter of Credit opened by the First Party for the supply, installation and commissioning of the said equipment.

2.3 MODE OF DESPATCH

The equipment with all its accessories should be dispatched by air to Delhi (India) duly insured upto Chandigarh, freight and insurance charges prepaid.

2.4 The Second and Third Party shall ensure submission of performance Bank Guarantee and duly executed Agreement within 30 days of issue of Supply Order failing which and without prejudice to its remedy under the contract, the Supply Order shall stand cancelled, except when specific extension is given by The Principal cum Professor Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Panjab University, Chandigarh in this regard, on a request form the supplier within 30 days of issue of Supply Order, citing valid reasons for seeking extension, which shall, in any case, be given for a maximum of 30 days. If the PBG and Agreement is not supplied, as called for within the stipulated period, the Supply Order shall be liable to be cancelled and EMD forfeited.

2.4 (a) Further, the equipment will be supplied, installed, commissioned and handed over to the First Party in complete working order within a total period of **84 days** after the opening of the Letter of Credit.

If the supplier fails to deliver any or all of the goods or perform the services within the time period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated demurrages, a sum equivalent to 0.5 % of the contract price for each week of delay or part thereof until actual delivery or performance, upto a maximum deduction of 10 (ten) % percent of the contract price. Once the maximum is reached, the purchaser may consider termination of the contract by which the supplies or their satisfactory installation, commissioning and handing over is delayed. The Second Party and Third Party will inform the First Party in writing, intimating the reasons for delay in supplying, commissioning and handing over of the equipment in satisfactory working order. The First Party at its sole discretion may consider a reduction or waiving of the penalty for a period to be stipulated in writing.

2.5 The system operational efficiency and concepts would be fully demonstrated after job completion by the Second/Third Party for which nothing extra shall be payable by the Institute. The materials etc. required for demonstration of satisfactory functioning of the equipment shall be arranged by the Second and Third Party.

2.6 Thorough inspection of the equipment system will be carried out by the First Party only on completion of the entire job of installation and commissioning of the equipment. The acceptance of the equipment will be based on demonstration of the satisfactory working of all modes of the equipment as tested by the Inspecting Authority.

2.7 This Agreement comes into effect from the date of opening of the Letter of Credit in favour of the Second Party. The Agreement will initially be valid for a **period of _____ years** to be counted from the date of installation and commissioning & handing over of the equipment. **This duration of _____ years includes the guarantee period of _____ years followed by the service contract period of _____ years.**

2.8 On expiry of the initial **period of _____ years**, this Agreement may be renewed for a further period by mutual Agreement between the parties in writing. However, notwithstanding anything else stated here, the Second Party undertakes to continue to provide service and required spare parts at an agreed price for the entire life of the equipment. Further, the Second Party undertakes to provide all the circuit diagrams of the entire equipment, including all its accessories, in the event the particular model is phased out of production. It further agrees to provide

and sell to the First Party all spare parts that may be needed for the remaining life of the equipment.

3. PRICES:

- 3.1 Prices of the equipment as shown in **Annexure** _____ **viz** _____ are CIF for destination Dr. Harvansh Singh Judge. Institute of Dental Sciences & Hospital, P.U. Chandigarh (Site of installation) with the break up for approximate freight and insurance, agency commission, installation charges payable at actuals.

4. PAYMENT TERMS:

(i) On Shipment :

80% of the FOB value shall be paid through irrevocable Letter of Credit established in the favour of the foreign supplier through State Bank of India, Panjab University, Sector 14, and Chandigarh on a bank in the supplier's country, on submission, to the bank, of the documents specified in the Letter of Credit and further following documents:

- a foreign supplier's certificate that the amounts shown in the invoice are correct in terms of the contract and that all the terms and conditions of the contract have been complied with
- b foreign supplier's certificate confirming that the original shipping documents have been dispatched to the port consignee in accordance with the contract and
- c any other document specified in the notification of award or the contract.

(ii) INDIAN SUPPLIER

- a Final payment shall be made after receiving of the Mobile Dental Van/Consumable/Equipments and submitting the satisfactory working / installation report duly signed by HOD of concern Deptt., Principals cum Professor of the Institute and registration & physical fitness certification by RTO/ Deptt. of Transport Chandigarh.

4.2 ON FINAL ACCEPTANCE:

Remaining 20% of the FOB value and actual freight and insurance (based on production of the receipts of the same limited to the estimated amount as mentioned in the Supply Order) shall be payable by Draft/SWIFT on receipt of goods on submission of claim supported by the acceptance certificate issued by the consignee/ purchaser's representative in the proforma given in Annexure – G of the NIT, inter-alia mentioning therein the date of completion of 90 days satisfactory and faultless functioning of the equipment and subject to other provisions of the Agreement.

- 4.3 The **Indian Agency Commission** of **Rs.** _____ will be paid to the Third Party and has been included in the total FOB value of the equipment.

- 4.4 The Institute shall make all reasonable and due efforts to pay the Indian Agency Commission out of the FOB value to the Third Party at the earliest possible after satisfactory installation/commissioning and handing over of the system in good working condition and meeting any other requirements for payment of the Agency Commission. The rate of exchange applicable for covering Agency commission into equivalent Indian Rupees shall be the TT selling rate prevalent on the date of releasing the documents at the time of shipment by the bankers. The Indian Agency Commission out of the FOB value will be paid in Indian Currency (Rupees) to the Third Party.
- 4.5 The equipment will be installed by the Second Party or the Third Party at the designated premises of the First Party.
- 4.6 The octroi exemption certificate, if required, shall be provided by the First Party.
- 4.7 It is agreed that increase in price on account of any statutory increase or fresh imposition of customs duty, sales tax or on account of any other tax or duty leviable in respect of the stores specified in the accepted tender which takes place after the date of delivery installation, commissioning and handing over period stipulated in the contract, shall not be admissible on such of the said stores as are delivered after the stipulated date of delivery and completion. This is subject to Force Majeure clause.
- 4.8 It is agreed that notwithstanding anything stipulated in the contract for increase in price on any other grounds, such increase which takes place after the date of the delivery and completion stipulated in the contract shall not be admissible on such of the said stores as are delivered after the expiry of the delivery and completion period stipulated in the contract.
- 4.9 But, nevertheless, the Institute shall be entitled to the benefit of any decrease in price on account of reduction in or remission of custom duty, excise duty or sales tax or any other tax or duty or on accounts of any other grounds, which takes place before the date of actual delivery of the goods.
- 4.10 A certificate shall be submitted, alongwith the final payment bills of the tendering firm, stating whether or not they have any pending appeal/protest for refund of partial or full excise duty already reimbursed to the firm by the Institute pending with the excise authorities and if so, the nature, the amount involved and the position of such appeals. This certificate should be signed by the Managing Director/Manager/ Accountant of Second/Third Party.
5. IMPORT FORMALITIES AND CUSTOMS CLEARANCE :
- 5.1 The equipment requiring import from abroad will be imported under the OGL scheme, for which Second Party and Third Party will ensure, before shipment takes place, that the equipment in question can be imported under the said scheme.
- 5.2 It will be the responsibility of the Third Party to get the customs clearance of the equipment duty free where this dispensation is available. It will also be the responsibility of the Third Party to pursue any claims with the customs authorities/insurance company, cargo operators and transporters as may arise at any stage.
- 5.3 The N.M.I.C. (Not Manufactured in India Certificate) and the C.D.E.C. (Custom Duty Exemption Certificate) will be provided by the First Party. However, the Second Party and third party will effect the shipment only after seeking confirmation regarding availability of the above from the First Party. Delays on this account will not count towards any penalty clauses in this Agreement.

5.4 The First Party shall indicate in the Supply Order whether any custom duty / excise duty exemption is available. The First Party shall make available such custom / excise duty exemption certificate. However, it shall be the responsibility of the Second and Third Party, before dispatching the consignment to ensure that such exemption certificates have become available with the First Party. Failure on this part of Second and Third party will render them liable to pay all demurrage charges which become payable.

6. INSURANCE

6.1 The Second Party will ensure that the equipment is properly insured for the full C.I.F. value to cover the transit **upto site of installation** (At user's premises) and to cover the further storage period etc. upto and of the period of satisfactory installation as agreed upon. If the installation is delayed beyond the agreed date of satisfactory installation, commissioning and handing over of the unit then in that event any transit and storage damages which come to light after such delays shall be at the risks and cost of the second/Third Party. The second party/Third Party will provide to the First Party, after due inspection, a detailed list of any loss or damage that may have occurred so as to enable the First Party to file the appropriate claims that may arise with the insurance company (ies). The second/Third Party undertakes to provide all assistance in pursuing any such insurance claims expeditiously. In lieu of damaged/lost items etc. regardless of the fact whether the claim is settled by the underwriters or not, the Second Party's liability is restricted to making free replacement/rectifications and any local expenses such as Customs Duty Clearance etc. connected with such replacements shall be borne by the First Party.

7. It should be noted that if, in consideration of offer of earlier delivery, the contract is placed with a higher tenderer in preference to the lowest acceptable offer, the tenderer will be liable to pay to the Institute the difference between the contract rate and that of the lowest acceptable tender on the basis of the final price for destination, including all elements of freight, sales tax, local taxes, duties and other incidentals, in case of failure to complete supplies in terms of such contract within the date of delivery specified and incorporated in the contract. This is in addition to and without prejudice to other rights of the Institute to recover all other losses and damages resulting from delayed supplies and of cancellation and risk purchase in case of failure to supply the stores.

8. GUARANTEE/WARRANTY:

8.1 Guarantee/warranty shall be for a period of _____ months.

8.2 The foreign suppliers and the tenderer should guarantee the entire equipment against defects of manufacture, workmanship and poor quality of components.

8.3 The guarantee/warranty against defects of manufacture, workmanship and poor quality of components shall be for the entire equipment and work conducted under the contract. During the guarantee period the replacement of any part(s) of the equipment or rectification of defect of works shall be free of cost.

8.4 UPTIME GUARANTEE

The firm will be required to give warranty / guarantee that during warranty period the equipment, including accessories, will be maintained in good working condition for a period of 347 days out of a period of 365 days (i.e. 95% uptime). If the machine is out of order for more than 5 hours during any day, it shall be considered as one day down time. The essential period to shut down the

installation, entirely or partially, shall also be included in the downtime if it exceeds 2 days, while calculating the 95% guaranteed uptime. No deduction or advantage of any kind on account of Sundays, half days on Saturdays, and Public/Govt. holidays observed by the Institute shall be allowed from the total down time permissible as defined above. The equipment will thus be required to be maintained in satisfactory working conditions for a minimum of 347 days in each period of 365 days which defines the 95% guaranteed uptime required to be maintained in each such period of 365 days. This guaranteed uptime shall be calculated for each block of 365 days.

- 8.5 The Second Party and Third Party will be required to pay a **penalty of Rs. 500/- per day** in case the number of days of downtime in each period of 365 days is more than the downtime permissible during warranty period which is to be calculated as defined above and the delay for not bringing the equipment in functioning order is in any way directly, even partially, attributable to the firm. The penalty will apply only for the number of days in excess of the permissible downtime as defined above.
- 8.6 The Second Party and the Third Party guarantee that the equipment being offered is the latest model and that spares for the equipment will be available for a period of at least 10 years (life span). The Second Party and the Third Party also guarantee that they will keep the Institute informed of any up-date of the equipment over a period of next 5 years and undertake to provide the same to the Institute at no extra cost.
- 8.7 The Second Party and Third Party guarantee/warranty that they will supply regularly any items of spare parts requisitioned by the purchaser for satisfactory operation of the equipment till the life span (to be mutually decided) of the equipment if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price or an agreed percentage of profit on the landed cost.
- 8.8 The Second Party and Third Party guarantee that before going out of production of spare parts, the Second Party/ Third Party will give adequate advance notice of atleast six months to the First Party so that the First Party may undertake to procure the balance of the life time requirements of spare parts.
- 8.9 The Second Party and Third Party guarantee that they will make available to the First Party the blue prints and drawings of the spare parts as and when required in connection with the equipment.
- 8.10 The Second Party and Third Party guarantee that the goods/articles supplied to the First Party under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained/ mentioned in the clauses here of and the Second Party and Third Party hereby guarantee that the said goods/stores/articles conform to the description and quality aforesaid. The First Party will be entitled to reject the said goods/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection, the goods/ stores/articles will be at the seller's risk and all the provisions herein contained relating to rejection of goods etc. shall apply. The Second Party and Third Party shall, if called upon to do so, replace within a period of fourteen days or such further period as may be extended from time to time by the First Party at his discretion, on an application made thereof by the Second Party/Third Party, the goods/stores/articles or such portion thereof as rejected by the First Party. In such an event, the above mentioned warranty/guarantee period of the entire equipment shall be extended by the time taken for these replacements. Otherwise, the second/Third Party shall pay to the

First Party such **demurrages** as may arise by reason of breach of the conditions herein contained. Nothing herein contained shall prejudice any other right of the First Party in that behalf.

- 8.11 The Second Party and Third Party will submit a **Performance Bond / Bank Guarantee (PBG) for 10% of the F.O.B.** value of the equipment towards the execution of the Agreement and the warranty valid till the expiry of the warranty **period of 24 months**, or extended period of warranty of **24 months** as the case may be. The PBG should however be valid for **at least 24 months**. After receipt of said bank guarantee, the First Party will return the call deposit receipt already submitted by the Second Party and Third Party as earnest money. On expiry of the warranty period, the PBG will be returned by the First Party to the Second Party and Third Party but only after the latter parties have submitted a fresh Bank Guarantee for **Rs. _____ valid till the expiry of the period of the service contract**. The fresh Bank Guarantee to cover the service contract shall be submitted at least one month before expiry of the previous Bank Guarantee and shall be for 5% of FOB value of the equipment referred to above in case of AMC and for 10% of FOB value of the equipment referred to above in case of CMC.

9. TRAINING OF PERSONNEL

The successful tenderer will be required to undertake to provide at his cost technical training for personnel involved in the use of the equipment at site at P.U. immediately after its installation. For this purpose the company experts shall be required to operate and train the P.U. personnel at site at P.U. for a minimum period of one month at the company's cost.

10. The Second Party/Third Party hereby agree to station at all times at Chandigarh, at their cost, a Resident Engineer who is suitably trained for affective preventive and prompt maintenance of the equipment during the period of **guarantee/warranty of _____ months** or extended period of warranty and the service contract period.

11. INSTALLATION AND SATISFACTORY COMMISSIONING OF THE EQUIPMENT:

- 11.1 The scope of work includes the satisfactory installation and satisfactory commissioning of the equipment by the Second and Third Party. The term satisfactory installation and commissioning and handing over wherever used in this contract/Agreement will mean satisfactory and faultless functioning of the equipment for **90 days** and of works conducted there under covered under the contract in working order. The Second Party and Third Party shall in consultation with the First Party, furnish at no extra cost to the First Party within 15 days of the Supply Order, the full details of all works required to be carried out by the Institute in connection with the completion of the work within the stipulated period.
- 11.2 In case the equipment is not installed and/or put in working condition to the full satisfaction of First Party within the period stipulated in the Agreement or within such time as may be extended in writing by the First Party, or the equipment does not function properly during the period of _____**years** from the date of its installation the First Party shall be entitled to return the equipment and seek the refund of the amount paid and the interest accrued thereon/demurrages borne by it from the Second and the Third Party jointly and severally.

12. MAINTENANCE OF THE EQUIPMENT DURING SERVICE CONTRACT PERIOD:

12.1 It shall be the responsibility of the Second Party and Third Party to keep the equipment including its accessories, covered under this Agreement in good working condition during the **entire service contract period of 5 years**, which will start with the expiry of the guarantee period as stipulated in Para 8.1 or extended period as the case may be from the date of installation of the equipment. During the service contract period, the equipment, including accessories, will be maintained in good working condition for a period of 347 days out of a period of 365 days (i.e. 95% uptime). If the machine is out of order for more than 5 hours during the period 8.00 AM to 5.00 PM on any day, it shall be considered as one day down time. The essential period to shut down the installation entirely or partially shall also be included in the down time if it exceeds 2 days while calculating the 95% guaranteed uptime. No deduction or advantage of any kind on account of Sundays, half days on Saturdays, Public/Govt. holidays observed by the Institute shall be allowed from the total downtime permissible as defined above. The equipment will thus be required to be maintained in satisfactory working conditions for a minimum of 347 days in each period of 365 days which defines the 95% guaranteed uptime required to be maintained in each such period of 365 days. The firm will be required to pay a penalty of **Rs.500/- per day** in case the number of days of downtime in each period of 365 days is more than the downtime permissible which is to be calculated as defined above and the delay for not bringing the equipment in functioning order is in any way directly, even partially, attributable to the firm. The penalty will apply only for the number of days in excess of the permissible downtime as defined above.

- (a) During the AMC, the time taken by the First Party in providing the spares till the functioning of the unit will not be calculated as down time. But the period of AMC will be extended equivalent to period the unit remains out of order. The Second Party has to submit the Proforma Invoice for the import of spares within 4 days. Extra period than this will be counted as down time.
- (b) During the guarantee/warranty period the time taken by the Second Party for putting the unit in working order more than 5 days will be considered as down time, the guarantee/warranty will be extended accordingly.
- (c) If the First Party opts to enter CMC during this period, the equipment alongwith its accessories has to be maintained for 347 days in a year as defined in above Para 12.1. However, 5 days time will be allowed to procure the spares, in case the same has to be imported and this period of 5 days will not be counted as down time. The Second Party will furnish a Bank Guarantee as stipulated in Para 8.11 of the Agreement.

13. SPARE PARTS DURING GUARANTEE/WARRANTY PERIOD :

13.1 All spare parts required during the guarantee/warranty period of the equipment as defined in Clause 8 for the satisfactory maintenance, running and upkeep of the equipment shall be provided by the second/Third Party at its cost, expenses and care. All such defective parts/components replaced by the second/Third Party during the guarantee period and Comprehensive Maintenance Contract period shall be the property of the second/Third Party.

13.2 During the Annual Maintenance Contract period, replacement of parts/components that may be needing replacement shall be made available by the First Party to

the Third Party at the First Party's own expense. Replacements may be the property of First Party.

14. Service charges and payment during service contract period.
- 14.1 The maintenance service charges will become effective automatically after the expiry of the guarantee period or extended warranty period as stipulated in Para 8.11 of the Agreement from the date of satisfactory installation and commissioning and handing over of the complete equipment including all accessories.
- 14.2 The _____ **Maintenance Contract Service Charges** payable during the service contract period by the First Party to the Third Party shall be as under :-
- Rate for 1st year = Rs. _____
- Rate for 2nd year = Rs. _____
- Rate for 3rd year = Rs. _____ For _____ Units
- Rate for 4th year = Rs. _____
- Rate for 5th year = Rs. _____
- NOTE: The AMC / CMC charges shall be payable in Indian Rupees only.
- 14.3 In case CMC, these charges include the cost of replacement parts/components/spares/accessories etc which shall be borne by the Second and Third Party. In case of AMC these charges do not include the cost of any replacement parts/components etc.
- 14.4 The payment of the Service Contract will be released to the firm in four equal installments after verification of all service reports. The payment will be made after the expiry of each quarter.
- 14.5 The firm will arrange 4 regular visits (one every three months) every year for keeping the equipment in good working condition during the period of Service Contract. In addition to it, the firm will be responsible for attending to all emergency break down calls as and when required by the concerned department during the year.
- 14.6 No price revision will be accepted by the First Party during the tenure of the Agreement.

15 **FORCE MAJEURE :**

Any failure of omission or commission to carry out the provisions of this contract by the supplier shall not give rise to any claim by any party, one against the other, if such failure of omission or commission arises from an act of God, which shall include all acts of natural calamities such as fire, flood, earthquake, hurricane, or any pestilence or from civil strikes, compliance with any statute and/or regulations of the Government, lockouts and strikes, riots, embargoes or from any political or other reasons beyond the supplier's control including war (whether declared or not), Civil War or state of insurrection, provided that notice of the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majeure conditions.

16 **ARBITRATION :**

- 16.1 If at any time, any question, dispute or difference whatever shall arise between the two parties upon or in relation to or in connection with this Agreement, either of the parties may give to the other notice in writing of the existence of such a question, dispute or difference and the same shall be referred to two Arbitrators one to be nominated by the First Party and the other to be nominated by the Second Party/Third Party. Such a notice of the existence of any question, dispute

or difference in connection with the Agreement shall be served by either party within one year of the beginning of such dispute failing which all rights and claims under this Agreement shall be deemed to have been forfeited and absolutely barred.

Before proceeding with the reference, the Arbitrators shall appoint/nominate an Umpire. In the event of the Arbitrators not agreeing in their award, the Umpire appointed by them shall enter upon the reference and his award shall be binding on the parties. The venue of the arbitration shall be at Chandigarh (India). The Arbitrators/Umpire shall give a reasoned award.

16.2 The provisions of the Indian Arbitration Act in force and of rules framed there under and any statutory modifications thereof shall be deemed to apply and be incorporated in this Agreement.

16.3 Upon every or any such reference, the cost of any incidentals to the reference and award(s) respectively shall be at the discretion of the Arbitrators or in the event of their not agreeing, of the Umpire appointed by them who may determine the amount thereof or direct the same to be fixed as between solicitors and client or as between parties and shall direct by whom and in what manner the same shall be borne and paid.

17. JURISDICTION:

The courts at Chandigarh alone will have the jurisdiction to try any matter, dispute or reference between the parties arising out of this Agreement/Contract. It is specifically agreed that no court outside and other than Chandigarh court shall have jurisdiction in the matter.

ANNEXURE - 'E'

(To be returned with the Technical Bids)

PERFORMANCE BOND (BANK GUARANTEE)

In consideration for The Principal cum Professor, Dr. Harvansh Singh, Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh (*hereinafter called the purchaser*) having agreed to release the 100% payment of net F.O.B. price as per terms and conditions of a concluded Contract No _____ dated _____ (*hereinafter called 'the contract'*) for supply of _____ (*hereinafter called the goods and services*) to Messrs _____ (*hereinafter called 'the supplier'*) on submission of a Bank Guarantee to the satisfaction of the purchaser for the due performance of the said contract.

We, _____ (*hereinafter called 'the Bank'*) at the request of the supplier do, as a primary obliger and not merely as surety, hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by the purchaser by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of the purchaser in terms of the contract.

We, the Bank, do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the purchaser stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the purchaser by reason of any breach by the said supplier of any of the terms and conditions contained in a said contract or by reason of the supplier's failure or omission or negligence to perform the said contract or any part thereof. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this guarantee, which shall not be considered as satisfied by any intermediate payment or satisfaction of any part of or obligation hereunder. However, our liability under this Guarantee shall be restricted to an amount not exceeding _____ .

We, the Bank, undertake to pay to the purchaser any amount so demanded by the purchaser, notwithstanding,

- a) any dispute or difference between the purchaser and the supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto or
- b) the invalidity, irregularity or unenforceability of the contract or
- c) any other circumstances which might otherwise constitute discharge of this guarantee, including any act or omission or commission on the part of the purchaser to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Bank, further agree that the Guarantee herein contained shall be continued one and remain in full force and effect during the period that would be taken for the performance of the said contract and that it shall continue to be enforceable till all the dues of the purchaser under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the office of The Principal cum Professor, Dr.

Harvansh Singh. Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh that the terms and conditions of the said contract have been fully and promptly carried out by the said supplier and accordingly discharges this Guarantee.

We, the Bank, hereby agree and undertake that any claim which the Bank may have against the supplier shall be subject to and subordinate to the prior payment and performance in full of all the obligations of the bank hereunder and the bank will not, without prior written consent of the purchaser, exercise any legal rights or remedies of any kind in respect of any such payment or performance so long as the obligations of the bank hereunder remain owing and outstanding, regardless of the insolvency, liquidation or bankruptcy of the supplier or otherwise howsoever. We, the Bank, will not counter claim or set off against its liabilities to the purchaser hereunder any sum outstanding to the credit of the purchaser with it.

We, the Bank, further agree with the purchaser that the purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the purchaser against the said supplier and forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier or for any forbearance, act or omission on the part of the purchaser or any indulgence by the purchaser to the said supplier or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This guarantee will not be discharged due to the change in the constitution of the Bank or the supplier.

We, the Bank, lastly undertakes not to revoke this Guarantee during its currency except with the previous consent of the purchaser in writing.

The disputes relating to this Bank Guarantee shall be resolved as per the terms and conditions of the contract.

Signature and seal of the bank

Place

Date

ANNEXURE - 'E1'

(Undertaking from the Supplier on a Non Judicial Stamp Paper of Rs. 5/- duly attested by Notary)

(To be returned with the Technical Bids)

PERFORMANCE BOND / GUARANTEE

In consideration for The Principal cum Professor, Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh (*hereinafter called the purchaser*) having agreed to release the 100% payment of net F.O.B. price as per terms and conditions of a concluded Contract No _____ dated _____ (*hereinafter called 'the contract'*) for supply of _____ (*hereinafter called the goods and services*) to us i.e. Messrs _____ (*hereinafter called 'the supplier'*) on submission of a Performance Bond to the satisfaction of the purchaser for the due performance of the said contract.

We, Messrs _____ (*hereinafter called 'the Supplier'*) hereby submit the FDR/TDR No. _____ issued by _____ (Name of the Bank) for Rs. _____ pledged in favour of The Principal cum Professor Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh as Performance Guarantee amount and hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by the purchaser by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of the purchaser in terms of the contract.

We, the Supplier, do hereby authorize The Principal cum Professor Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, Sector-25, Panjab University, Chandigarh to forfeit this Performance Guarantee amount/undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the purchaser stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the purchaser by reason of any breach by us of any of the terms and conditions contained in a said contract or by reason of our failure or omission or negligence to perform the said contract or any part thereof.

We, the Supplier, undertake to pay to the purchaser any amount so demanded by the purchaser, notwithstanding,

- a) any dispute or difference between the purchaser and the supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto or
- b) the invalidity, irregularity or unenforceability of the contract or
- c) any other circumstances which might otherwise constitute discharge of this guarantee, including any act or omission or commission on the part of the purchaser to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Supplier, further agree that the Performance Bond/Guarantee herein contained shall be continued one and remain in full force and effect during the period that would be taken for the performance of the said contract and that it shall continue to be enforceable till all the dues of the purchaser under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the office of the Principal cum Professor Dr. Harvansh Singh Judge Institute of Dental Sciences, Panjab University, Chandigarh

certifies that the terms and conditions of the said contract have been fully and promptly carried out by us and accordingly discharges this Performance Bond / Guarantee.

We, the Supplier, further agree with the purchaser that the purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by us from time to time or to postpone for any time or from time to time and of the powers exercisable by the purchaser against us and forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extension being granted to us or for any forbearance, act or omission on the part of the purchaser or any indulgence by the purchaser to us or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Performance Bond / Guarantee will not be discharged due to the change in the constitution of the Supplier.

We, the Supplier, lastly undertakes not to revoke this Performance Bond / Guarantee except with the previous consent of the purchaser in writing.

The disputes relating to this Bank Performance Bond / Guarantee shall be resolved as per the terms and conditions of the contract.

Signature and seal of the Supplier

Place

Date

ANNEXURE - 'F'

MANUFACTURERS/AUTHORISED FABRICATOR CERTIFICATE

To

The Director Principal,
Dr.H.S. Judge Institute of Dental Sciences & Hospital,
Sector-25,
Panjab University,
Chandigarh

Dear Sir,

Tender No.

We, _____, who are established and reputable manufacturers/ fabricator of _____, having factories/ fabricating unit at _____ and _____, hereby authorise Messrs. _____ [name and address of agents] to bid, negotiate and conclude the contract with you against Tender No. _____ for the above goods manufactured /fabricate by us.

We shall remain responsible for the tender / Agreement negotiated by the said M/s _____, jointly and severely.

No company or firm or individual other than Messrs. _____ are authorised to bid, negotiate and conclude the contract in regard to this business against this specific IFB as also for all business in the entire territory of India.

An agency commission of _____ % included in the gross ex-works price is payable to Messrs. _____.

We hereby extend our full guarantee and warranty as per clause 15 of the conditions of contract for the goods offered for supply against this invitation for bid by the above firm.

Our other responsibilities include :

- i _____
- ii _____

[here specify in detail manufacturer's responsibilities]

The services to be rendered by Messrs. _____ are as under :

- i _____
- ii _____

[here specify the services to be rendered by the agent]

In case duties of the agent are changed or agent is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian agent.

Yours faithfully,

[name]

for and on behalf of Messrs. _____

[name of manufacturers].

Note : This letter of authorization should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. A copy of notarized power of attorney should also be furnished.

ANNEXURE - 'G'

**PROFORMA OF CERTIFICATE FOR ISSUE
BY THE PURCHASER AFTER SUCCESSFUL COMMISSIONING OF
EQUIPMENT**

No. _____ Date _____

To

Messrs. _____

Subject : Certificate of installation/commissioning of equipment/plant and its satisfactory and faultless functioning for 90 days after installation/commissioning.

01 This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good condition along with all the standard and special accessories and a set of spares (subject to remarks in para no. 02) in accordance with the contract/technical specifications. The same has been installed and commissioned.

- a Contract No./Supply Order No. _____ dated _____
- b Description of the equipment(s)/plant(s)
- c Sr. No. of equipment(s)/plant(s).
- d quantity
- e Bill of lading/air way bill/railway receipt/goods consignment note no. dated
- f Date of installation/commissioning
- g Date of completion of 90 days satisfactory and faultless functioning of equipment.

02 Details of accessories/spares not yet supplied and recoveries to be made on that account. :

Sl. No.	Description of item	Quantity	Amount to be recovered
---------	---------------------	----------	------------------------

03 The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

04 This will be without prejudice to the recoveries/penalties/LD which become payable due to omission or commission on the part of the Second and Third Party as per the Agreement, Supply Order and LOC.

Signature

Name

Designation with stamp

Explanatory notes for filling up the certificate :

- a. He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract.
- b. Training of personnel has been done by the supplier as specified in the contract.
- c. It should always be kept in mind that satisfactory installation and commissioning means satisfactory and faultless functioning of the equipment for 90 days and of works conducted there under covered under the contract in working order.

ANNEXURE - H

Proforma for performance statement
(for the period of last three years)

IFB No. :

Dated of opening :

Name and address of the tenderer

Ordered placed by (full address of purchaser)	Order number and date	Description and quantity of ordered goods and services	Value of order (Rs.) of contract	Date of completion		Remarks indicating functioning satisfactorily (attach documentary proof)	Have the goods been
				As per Contract	Actual		
1.	2.	3.	4.	5.	6.	7.	8.
<hr/>							
<hr/>							

Signature and seal of the tenderer

NOTE : Please indicate major order only