

**TENDER NOTICE**

**“Digital OPG with Cephalostat”**  
**AIIMS, Raipur, Tatibandh, Raipur,**  
Date: 10 Sep 2013

On behalf of the Director, All India Institute of Medical Sciences, Raipur tenders in sealed cover are invited under **two-bid** system from manufacture and their authorised dealers/ distributors for supply, installation and commissioning of **Digital OPG with Cephalostat** for AIIMS Raipur.

The interested manufactures and their authorised dealers/ distributors are required to submit the technical and financial bid separately. The bids in Sealed Cover-I containing “Technical Bid” and Sealed Cover-II containing “Financial Bid” should be placed in a third sealed cover super scribed **“Tender For Dentistry Equipments”** and should reach at the office of **“The Administrative Officer, AIIMS, Tatibandh Raipur (CG) - 492001, by or before on 03.00 PM on 04-10-2013.** The bid received after due date and time will not be entertained whatsoever may be the reason. The technical bids shall be opened on the same day at **03.00 PM** at AIIMS, Raipur. In the event of any of the abovementioned date being declared as a holiday / closed day, the tenders will be opened on the next working day at the appointed time. The date of technical evaluation of items and opening of financial bid of technically qualified agencies will be announced later.

BID REFERENCE :ADMIN/Tender/OPG/1/2013.

PRE BID MEETING : 25.09.2013 AT 11:00 AM

<b>Key Dates : Single Submission MultiOpening With Prequalification</b>		
<b>Seq No</b>	<b>DME Stage</b>	<b>Start Date &amp; Time</b>
1	Tender Preparation and Release of NIT	10.09.2013
2	Pre Bid Meeting	25.09.2013 11:00
3	Close for Bidding - Submission of Tender	04-10-2013 15:00
4	Open EMD & Technical / PQ bid	04-10-2013 15:00

The tender document containing technical bid form, financial bid form, technical description/specification & tem and terms & conditions can be downloaded rom website [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in). Demand Draft/Pay Order for Rs.1135.00 (Rupees one thousand one hundred thirty five only) (non-refundable) in favour of **“AIIMS, Raipur”**, payable at **Raipur**, against cost of the tender document along with their technical bid in the Cover-I “Technical Bid”. The amount of bid security (EMD) for **Tender For Dentistry Equipments of Rs. 1,00,000/- (Rupees One Lakh)** of tender documents should be paid by FDR/DD in favour of **“AIIMS, Raipur”** payable at **Raipur** and will be placed in cover-1 with technical bid. The Tender Documents are not transferable.

Any future clarification and/or corrigendum(s) shall be communicated through Administrative Officer on the AIIMS, Raipur website: [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in).

**Administrative Officer**  
**AIIMS, Raipur**

**TENDER DOCUMENT**  
**“Digital OPG with Cephalostat”**  
 AIIMS, Raipur

**TECHNICAL BID**  
**(In separate sealed Cover-I super scribed as “Technical Bid”)**

1.	Name & Address of the manufacture and their authorised dealers/ distributors/Agency with phone number, email, name and telephone/mobile	
2.	Specify your firm/company is a manufactures/ authorised dealer/distributor/ Agency	
3.	Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
4.	Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant poof. Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. <b>If you don't fulfil this criteria, your tender will be out rightly rejected.</b>	
5.	Detailed & exact specification of the product available with the vendor should be mentioned in the technical bid in <b>Annexure-I</b> only. <b>Mentioning ‘Yes’ or ‘No’ is not sufficient.</b> Original product boucher with details of the product quoted should be attached along with. <b>Bids not complying with this instruction will be out-richtly rejected.</b>	
6.	Please attach copy of last of Income Tax Return	
7.	Please attach balance sheet ( <i>duly certified by Chartered Accountant</i> ) for last three (3) years (Annual minimum turnover should not be less than 50 lakhs)	
8.	PAN No. (Please attach copy)	
9.	VAT/Service Tax Registration Number. (Please attach copy)	
10.	Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. <b>Otherwise your tender will be rejected.</b>	
11.	Power of Attorney/authorization for signing the bid documents	
12.	Please submit a notarised affidavit on Indian Non judicial stamp paper of Rs. 10/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner. Please also declare that proprietor/firm has never been black listed by any organization.	
13.	Details of the FDR/DD of bid security (EMD) FDR/DD No: Date: Payable at	<b>Detail of cost of Tender for Rs. 1135/- (if downloaded from website) DD No. Date: Payable at-</b>

**Declaration by the Tenderer:**

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

Encls:

1. DD/Pay Order (if tender form is downloaded from the website of this Institute)
2. FDR/DD/BG
3. Terms & Conditions (each page must be signed and sealed)
4. Financial Bid

Place:.....

Date:.....

**(Signature of Tenderer with seal)**

Name:

Address :

**Tender Enquiry No. ADMIN/Tender/OPG/1/2013**

**“Digital OPG with Cephalostat”  
AIIMS, Raipur  
COMPREHENSIVE FINANCIAL BID**

**(In sealed Cover-II super scribed “Financial Bid”)**

S. No.	Item Description	Unit Price in INR		Custom duty in INR (if applicable)		Taxes (if applicable) VAT / Sales Tax/etc in INR		Service Tax (if applicable) in INR		Qty of units	Any Other Charges in INR if applicable (Specify)		Total in INR (Unit price x Quantity + Other Charges)	
		Figures	Words	Figures	Words	Figures	Words	Figures	Words		Figures	Words	Figures	Words
	Equipment supply, installation, commissioning & demonstration of performance including 5 year warranty.													
	Equipment													
	Accessories													
	Service / Turnkey													
	CMC Total for Five Years ( details as mentioned in next Table)													
													<b>Grand Total*</b>	

The grand total \* will be the deciding factor for L1 provided all the other conditions mentioned in the tender document (GCC, SCC and the technical conditions) are fulfilled.

DATE:

SIGNATURE WITH NAME AND SEAL

**PRICE SCHEDULE FOR COMPREHENSIVE (INCLUDE FREE  
LABOUR, REPAIR, OTHER SERVICES & SPARE PARTS)  
MAINTENANCE CONTRACT  
(C.M.C. ) AFTER EXPIRY OF WARRANTY**

**(RATES SHOULD BE QUOTED IN INDIAN RUPEES ONLY )**

Sr No	SM E Code No.	Name of the Equipment	For Sixth year with spare parts & labour	For Seventh year with spare parts & labour	For Eighth year with spare parts & labour	For Ninth year with spare parts & labour	For Tenth year with spare parts & labour
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

Place:

Date:

Signature  
Name in Capital Letters  
Designation

**SPECIAL CONDITIONS**

1. The bidders should submit the relevant certificates / evidence of previous supply to other hospitals. If required, the technical committee may enquire from the other hospitals where the bidders have supplied the material.
2. The bidders should also submit a certificate from the relevant authority as to the quality of the equipment.
3. The bidder should not have been blacklisted before.
4. The bidders shall also arrange for the demonstration of their equipment to the concerned committee regarding the quality aspect.

The above quote should include all applicable taxes. If the rates of various items are L1 for different Tenderer, the AIIMS Raipur reserve the right to either accept the L1 of different firm/agencies or will negotiate, with the firm who has quoted the maximum gross value of L1 items to lower the rate of other item up to the limit of L1 quoted by other firms. In this context, final decision of the committee will be binding to all and no claim in the regard can be entertained. The quantity indicated is tentative and may vary, and any decision in this regard by Director AIIMS Raipur shall be final.

## **Warranty, Service, Maintenance:**

### **Warranty**

The equipment price should be quoted along with full comprehensive warranty of 5 years with proper maintenance service mentioned in this document.

### **Service**

The supplier will ensure regular maintenance service by the appropriate engineer having the technical know-how of the equipment. The supplier shall also ensure the presence of resident engineer in the geographical location of this city of Raipur so that he attends the call without loss of time.

### **Maintenance**

It will be mandatory for the supplier to enter into a maintenance contract as applicable below:

- a. If the cost of the unit/instrument/equipment is less than INR Five Lacs, then the supplier has to sign an annual maintenance contract with the purchaser. During this period the supplier shall ensure quality maintenance / check service of minimum 4 times a year in addition to the calls that might be raised by the user department. This contract will be 1 % per annum of the base price (exclusive of taxes / duties) quoted in the financial bid and shall be paid to the supplier at the end of the year with the clearance / satisfaction certificate issued by the user department.
- b.
- c. If the cost of the unit/instrument/equipment is more than INR Five Lacs, then the supplier has to sign a comprehensive maintenance contract with the purchaser. During this period the supplier shall ensure quality maintenance / check service of minimum 4 times a year in addition to the calls that might be raised by the user department. This contract will be 3 % per annum of the base price (exclusive of taxes / duties) quoted in the financial bid and shall be paid to the supplier at the end of the year with the clearance / satisfaction certificate issued by the user department.

Non-compliance of any of these conditions or any of the conditions mentioned in the document renders the purchaser to blacklist the supplier along with appropriate legal actions.

**Declaration by the Bidder:**

1. This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained in Tender document regarding terms & condition of the contract, rules regarding purchase of Digital OPG with Cephalostat . I/we agree to abide them.
2. No other charges would be payable by Client and there would be no increase in rates during the Contract period.

Place:.....

**(Signature of Bidder with seal)**

Date:.....

Name :

Seal :

Address:

**“Digital OPG with Cephalostat”**

**AIIMS, Raipur**

**Terms & Conditions**

**(A) Information and Conditions relating to Submission of Bids**

1. The tender document containing eligibility criteria, scope of work, terms & conditions and draft agreement can be downloaded from website [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in). Those who download the tender document from Website should enclose a Demand Draft/Pay Order for Rs 1135/- (Rupees one thousand one hundred thirty five only) in favour of “AIIMS, Raipur”, payable at Raipur, not later the date of 04-10-2013, along with their bid in the Cover-I containing “Technical Bid”.
2. The interested firms/suppliers are required to submit the Technical and Financial Bids separately in the format enclosed. The bids in sealed Cover-I containing “Technical Bid” and sealed Cover-II containing “Financial Bid” should be placed in a third sealed cover super scribed “Tender for Purchase of “Dentistry Equipments” should reach AIIMS, Raipur by or before 03.00 PM on 04-10-2013. The Technical bids shall be opened on same day at 03.00 PM at AIIMS, Raipur in presence of the bidders or their authorized representatives who choose to remain present. The Tender received after due date & time will be rejected and no claim shall be entertained whatsoever may be the reason.
3. The bidders are required to submit their query in writing before 25.09.2013 to DDA, AIIMS Raipur, if any.
4. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the Authorized signatory signs the tenders, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.
5. All entries in the tender form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. No overwriting or cutting is permitted in the Technical Bid as well as Financial Bid unless authenticated by full signature of bidder. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filled up carefully by the tenderer. All Corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made



by using fluid and overwriting will not be accepted and tender would be rejected.

6. The bidder shall pay an amount of Rs. 1,00,000/- as Bid Security (EMD) alongwith the Technical Bid in the form of FDR/DD/BG in favour of “AIIMS, Raipur” drawn on any Nationalized Bank/ Scheduled Bank and payable at Raipur and must be valid for (6) six month. Bids received EMD shall stand rejected and thus shall not be considered for evaluation etc at any stage. The original EMD will be put in cover-I containing Technical bid.
  - a. The Public Sector Undertaking of the Central/State Govt. are exempted from furnishing Earnest Money along with tender.
  - b. The firms Registered with DGS & D/SSI and any approved source of Centre/States Govt. are not exempted from furnishing Earnest Money in so far as this institute is concerned.
  - c. Earnest Money deposited with AIIMS, Raipur in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.
7. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract.
8. The successful bidders has to constitute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) and also required to furnish the security deposit @ 10% of contract value in the form of FDR/DD/BG of any nationalised bank in favour of AIIMS, Raipur & payable at Raipur only. This deposit will be valid till 60 days beyond the completion of the warranty period. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 15 (fifteen) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited unless time extension has been granted by AIIMS, Raipur.
9. The EMD shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.
10. The bid shall be valid and open for acceptance of the competent authority for a period of 180 (one hundred eighty) days from the date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained
11. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their

bids. The request for clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.

12. After evaluation, the work shall be awarded normally to the Agency fulfilling all the conditions and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.
13. The competent authority of AIIMS, Raipur reserved all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any term and condition of the tender enquiry after due discussion in pre bid conference. This will be communicated to all tenderers in writing. AIIMS, Raipur also reserves the right to reject any bid, which in his opinion is non-responsive, or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.
14. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
15. Canvassing in any form is strictly prohibited and the tenderer who are found canvassing are liable to have their tenders rejected out rightly.

**(B) OTHER TERMS & CONDITIONS OF THE TENDER**

1. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at FOR AIIMS Raipur.
2. All the rates should be mention in Indian national currency (INR) only. The rates quoted in foreign currency will not be entertained in this tender enquiry & such tenders will be cancelled straightway.
3. Rates should be mentioned both in figures and in words. The offer should be typed or written in Ink Pen/ Ball Pen without any correction. Offers in pencil will be cancelled. Telegraphic/ Telex/ Fax offers will not be considered and cancelled straightway.
4. **Guarantee / Warranty period:** The tenderers must quote for 5 years on site warranty from the date of completion of the satisfactory installation as certified by the stipulated committee. The Warranty charges **shall not** be quoted separately otherwise the offer shall be summarily rejected. Also the Bidders should submit their quote for subsequent 5 years on site CMC (include free labour, repair, other services & spare parts). Failure to comply this condition will entail the rejection of the Bids. The price comparison shall be made taking into account on basic price and post warranty CMC. The Rate Contracting Authority reserves the right to award CMC. The amount of CMC would be released to the supplier on successful completion of the maintainence of that particular year duly certified by the user department.

5. The supplier shall submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier has quoted lower rates than those quoted in this tender, the Institute (the purchaser) would be given the benefit of lower rates by the Supplier. If such affidavit is not submitted, tender will be out rightly rejected.,
6. If the prices of the contracted articles is/ are controlled by the Government, in no circumstances the payment will be higher than the controlled rate.
7. Tender will be regarded as constituting an offer open to acceptance in whole or in part at the discretion of the competent authority of the institute for a period of 180 days (6 months) valid from the date of opening of the tender by the committee.
8. The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply. In such a case, bid security of the supplier shall stand forfeited.
9. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged.
10. In case the tenderer on whom the supply order has been placed, fails to made supplies within the delivery schedule and the purchaser has to resort risk purchase, the purchaser (AIIMS, Raipur) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and bid security deposit will be forfeited.
11. The Specification and quantity of the item needed is mentioned in Financial Bid but it is approximate detail and is subject to increase/decrease at the discretion of the competent authority of AIIMS, Raipur. The payment would be made for actual supply taken and no claim in this regard should be entertained.

12. Where the specifications are as per tenderer's range of product & tenderer's offer should mention that the item meets all specifications as per the tender enquiry and if there are improvements/deviations the same should be brought out on separate Letter Head of the firm. It would be discretion of the competent authority of the institute to accept or reject such deviations which are not in accordance with our required specifications as per given in **Annexure - I**.
13. It must be mentioned clearly whether tenderer is a manufacturer/sole distributor/sole agent for the items for which he is quoting.
  - a. Manufacturer must add a certificate that item(s) is manufactured by them as per range of products
  - b. Sole Manufacturers must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private Organisation and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
  - c. Authorized agents must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals in proforma given in attach duly supported by a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- (Rupees ten only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.
14. The Tenderers should furnished a copy of S.T./C.S.T./VAT registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected
15. The tenderers should submit along with the tender, a photostat copy of the last Income Tax return and copy of current valid income tax clearance certificate (IT CC) otherwise tender may be ignored
16. In case asked, tenderer must personally supply a sample/give the demonstration of the equipments/Instruments to the competent authority of the institute and in that case all the expenses will be borne by the supplier.
17. Full description & specifications, make/brand and name of the manufacturing

firm must be clearly mentioned in the tender failing, which the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original failing which tender may be ignored.

18. Any failure or omission to carryout of the provisions of this supply by the supplier shall not give rise to any claim by supplier and purchaser one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any status and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure.
19. The Courts at Raipur/CG alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.
20. If at any time, any question, dispute or difference whatever shall arise between supplier and the institute (Purchaser) upon or in relation to or in connection with the 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 institute (Purchaser) and the other to be nominated by the supplier. Such a notice of the existence of any question dispute or difference in connection with the agreement shall be served by either party within 60 days of the beginning of such dispute failing which all Right sand 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 Raipur, (Chhattisgarh, India). The arbitrators/Umpire shall give reasoned award.
21. The supplier should mention the compliance to the specification in the technical bid of the tender document failing this, the bid document will be disqualified.
22. Supply of equipment, goods and services should be completed within 6 weeks from the date of supply order unless otherwise specified in the supply order. Purchaser will place order by fax &/or e-mail &/or speed post

23. The Bidder shall provide on site warranty/guarantee of the equipment for the period of **five years from the date of installation**. Warranty will cover services, repairs, maintenance, replacement of spare parts, broken / damaged / worn out spare parts and other services free of cost during the whole warranty period of five years. The warranty shall also include “on call service” which should not exceed **24 hours from the time of lodging of complaint through e-mail**.

I / We hereby accept the terms and Conditions given in the tender

-----  
(Signature & Stamp of the bidder)

*Note- Please sign each page of document including terms & conditions & tender*

**Annexure-I**

**TECHNICAL SPECIFICATIONS FOR STATE OF THE ART, TOP OF THE LINE DIGITAL ORTHOPANTOMOGRAPHY SYSTEM WITH CEPHALOSTAT**

Competitive bids are invited for the procurement & installation of a new state-of-the-art top-of-the-line digital orthopantomography system with cephalostat for a comprehensive imaging of maxillofacial region, cephalometric assessment for orthognathic and craniofacial surgeries, implant assessment in addition to the general dentistry applications. The specifications that follow are the essential in the equipment to be procured. The response should be given in detail and not just ‘yes’ or ‘no’. These specifications may not be all inclusive. In case your system has additional features regarding a particular part or the machine as a whole, bidders are expected to mention them additionally. The specifications quoted should be supported by documents from the original vendor. The vendors should quote for the latest facilities and should make sure that the equipment supplied is the latest one for the year of installation and would be requiring free upgrades for next five years. The equipment should have a **US FDA/ European CE approved & AERB compliant**.

<b>S.No.</b>	<b>Part &amp; Specifications</b>	<b>Comments</b>	
<b>1</b>	<b>Digital OPG with Cephalostat</b>		
a.	The digital OPG with the cephalostat should be a floor standing one. Both the OPG and cephalostat should have a centralized control system.		
b.	Applications required are <ul style="list-style-type: none"> <li>i. Full Panoramic (Adult &amp; Child)</li> <li>ii. Segmented panoramic</li> <li>iii. PA TMJ Views</li> <li>iv. Lateral TMJ-2 views</li> <li>v. Lateral TMJ- 4 views</li> <li>vi. Lateral Multi Angle TMJ</li> <li>vii. Sinus Images PA &amp; Lateral</li> <li>viii. Cephalometry</li> <li>ix. All Skull views (AP,Lateral, PNS)</li> <li>x. Submento Vertex View</li> <li>xi. Hand &amp; Wrist view</li> <li>xii. True Extra oral Bitewing Images</li> <li>xiii. Linear Tomography</li> </ul> Programs should be included.	Any other additional feature to be mentioned and specified.	

c.	Weight: It should be lightweight system with a weight 140 kg or less (inclusive of Cephalostat).	Lighter weight system is preferred	
d.	Should have an option to Upgrade to 3D on a later date.	The Cost of the upgradation should be quoted separately	
<b>2</b>	<b>Generator:</b>		
a.	It should be constant potential microprocessor controlled resonance mode x-ray generator with very high operating frequency.	60KHz -150KHz or above	
b.	Should have short rise time	Less than 3 ms is preferable	
<b>3</b>	<b>X ray tube</b>		
a.	Focal spot: 0.5 mm as per IEC standards	Please specify the details	
b.	Anode Voltage and current. Please also specify the incremental steps	Preferable is 50-90 KV in 1-2 KV steps and current 0.5-18 mA DC	
c.	Should have an universal power input including power factor corrector, mains voltage fluctuations automatically compensated		
d.	Adjustable focal trough (Min 9-way adjustable.)		
e.	Should have automatic primary collimator		
f.	Should have optimized image geometry and constant magnification		
g.	Should have an automatic exposure control		
h.	How is cooling control? – Automatic preferred.		
i.	Give the exposure parameter range that is optimized for digital imaging.		
j.	Specify the range of exposure time.	Minimal Exposure Time preferable	
k.	Filter: Total filtration to be Equivalent to 2.5 mm Al or more		
l.	Magnification of panoramic exposure: 1.2-1.29		
m.	Low Patient Dose		



<b>4</b>	<b>Positioning:</b>		
a.	Positioning should be easy and fast. Does it have an automatic patient system?	Automatic preferable	
b.	Option for adjusting for both Standing and Sitting patients.	Standing/ Wheel-chair Accessible	
c.	Positioning visor light details, please specify.		
d.	Is the height adjustment for forehead and temple support manual or motorized? Motorized preferable.	In case of the motor failure, does it have a manual override	
<b>5</b>	<b>Exposure</b>		
a.	Multiple modes for different patient sizes.	Separate modes for Pediatric Patients	
b.	Different dental arch morphology modes	Orthogonal	
c.	Exposure time should be as minimum as possible. Between 2 sec to 20 seconds for all possible radiographs is preferable.	In case there is any other additional range, kindly mention.	
d.	All the modes and exposure controls should be available on the remote control at the console		
<b>4</b>	<b>Detector:</b>		
a.	High resolution CCD sensor	CMOS Sensor	
b.	Pixel size of resolution more than 46 microns with multiple selectable pixel sizes.		
c.	Protective fiber layer for protection and longevity of the sensor		
d.	Mention the panel size for eg 145 x 6 mm		
e.	Sensor should have a long life.		
<b>5</b>	<b>Console and control</b>		
a.	Should have provision for general patient demographics like patient identity, age, sex, study, date, etc. with possibility to import the same from the HIS / RIS		
b.	Should have a user-friendly graphical user interface on a computer and also on the console of the machine itself.		
c.	Software must be user friendly for easy selection of exposure parameters.		

d.	Should have a DICOM-3 compatibility for easy image transfer to the PACS/HIS through the networking for image transfer to view at various workstation and to print from remote dry chemistry printers.		
<b>6</b>	<b>Image quality/resolution</b>		
a.	The image should be of excellent quality better than 1530 x 2730 pixels		
b.	The Cephalometric Images should give true measurements with a Scale shown on each image. Magnification should be 1 and should have means for adjusting the magnifications.		
<b>7</b>	<b>Post Processing</b>		
a.	Should have wide range of Image Processing and enhancement tools.		
b.	The Programme should adjust and optimize the contrast of the image automatically and brings out image details on the entire grey scale.		
<b>8</b>	<b>Computer</b>		
a.	Computer should be latest with minimum features of Intel core 2 duo processor with 1 TB Hard Disk, Graphic card, 8 GB RAM with operating system of Window 7 multimedia or Window 8 with drives of DVD ROM + writer. UPS requirement for supporting above system should have 5 KVA online. High Quality Laser Printer/ Thermographic printer	Should be Quoted along	
<b>9</b>	<b>Accessories</b>		
a.	Protective screen between the machine and the operator to protect a standard size adult		
b.	Positioning accessories like standard bite blocks, edentulous bite blocks, Panoramic chin rest, TMJ Nose rest		

	sinos chin rest should be available as standard. Patient immobilization device to prevent image blurring.		
c.	UPS suitable for the operability back up of the complete equipment for 30 minutes.		
d.	Lead Apron – Ultra light weight (zero lead) with protection of 0.5 mm lead equivalent.		
e.	Thyroid shield - 2		
f.	Gonadal shield - 2		
g.	Cabinate should be provided		

**Special Conditions**

1. The system should be a state of the art, top of the line equipment and the latest for the year of installation. It should be upgraded for free for the next five years for any hardware / software component.
2. It should be quoted with a 5-year onsite warranty.
3. It will be the responsibility of the supplier to ensure compliance with AERB guidelines.
4. After sales service will be a major concern and the supplier should undertake the service during the warranty and the maintenance contract period.

**MANUFACTURER'S / PRINCIPAL'S AUTHORIZATION FORM**

(Clause 13 (c) of the tender)

To

The Administrative Officer,  
All India Institute of Medical Sciences Raipur

Dear Sir,

TENDER: \_\_\_\_\_.

we, \_\_\_\_\_ who are established and reputable manufacturers of \_\_\_\_\_, having factories at \_\_\_\_\_ and \_\_\_\_\_, hereby authorize Messrs. \_\_\_\_\_ (name and address of agents) to bid, negotiate and conclude the contract with you against Tender No. \_\_\_\_\_ for the above goods manufactured by us. No company or firm or individual other than Messrs. \_\_\_\_\_ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

We hereby extend our full guarantee and warranty as pexr the conditions of tender for the goods offered for supply against this tender by the above firm.

The authorization is valid up to \_\_\_\_\_.

Yours faithfully,

(Name)

For and on behalf of Messrs. \_\_\_\_\_  
(Name of manufacturers)/Principal.