TENDER DOCUMENT
FOR
SUPPLY, INSTALLATION AND
COMMISSIONING OF ECHO MACHINE,
LAPAROSCOPE STACK COMPLETE WITH
LIGHTSOURCE AND ACCESSORIES, X-
RAY,

AND DENTAL EQUIPMENTS

CGM/ONT/ 002/2015-2016
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Introduction

1.1 This Standard Tender Document has been prepared for use by public entities in Kenya.

1.2 The following general directions should be observed when using the document.
   (a) Specific details should be furnished in the Invitation to Tender and in the special conditions of contract. The final documents to be provided to the tenderers should not have blank spaces or give options.

   (b) The Instructions to Tenderers and the general conditions of contract should remain unchanged. Any necessary amendments to these parts should be made through the special conditions of contract and the appendix to instructions to tenderers.
1.3 (a) Information contained in the Invitation to Tender shall conform to the data and information in the tender documents to enable potential tenderers to decide whether or not to participate and shall indicate any important tender requirements.

(b) The Invitation to tender shall be issued as an advertisement in accordance with the regulations or a letter of invitation addressed to tenderers who have expressed interest following the invitation for expression of interest for which the invitation is issued.

SECTION I INVITATION TO TENDER

DATE ________________________

TENDER REF NO. (CGM/ONT/002/2015-2016)

TENDER NAME supply, installation and commissioning of echo machine laparoscope stack complete with light source and accessories, x-ray and dental equipments

1.1 The COUNTY GOVERNMENT OF MERU invites sealed bids from eligible candidates for supply installation and commissioning of echo machine laparoscope stack complete with light source and accessories, x-ray and dental equipment

1.2 Interested eligible candidates may obtain further information from and inspect the tender documents at county government of Meru website www.meru.go.ke

1.3 A complete set of tender documents may be obtained by interested candidates by downloading it from the website for free
1.4 Completed tender documents are to be enclosed in plain sealed envelopes marked with tender reference number and be deposited in the Tender Box at the county headquarters ground floor.

1.5 Prices quoted should be net inclusive of all taxes and delivery must be in Kenya Shillings and shall remain valid for (120) days from the closing date of the tender.

1.6 Tenders will be opened immediately thereafter in the presence of the Candidates or their representatives who choose to attend at the county chamber hall.

SECTION II - INSTRUCTIONS TO TENDERERS

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SECTION II - INSTRUCTIONS TO TENDERERS

2.1 Eligible Tenderers

2.1.1 This Invitation for Tenders is open to all tenderers eligible as described in the Invitation to Tender. Successful tenderers shall complete the supply of goods by the intended completion date specified in the Schedule of Requirements Section VI.

2.1.2 The procuring entity’s employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.

2.1.3 Tenderers shall provide the qualification information statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods under this Invitation for tenders.

2.1.4 Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices.
2.2 **Eligible Goods**

2.2.1 All goods to be supplied under the contract shall have their origin in eligible source countries.

2.2.2 For purposes of this clause, “origin” means the place where the goods are mined, grown, or produced. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

2.2.3 The origin of goods is distinct from the nationality of the tenderer.

2.3 **Cost of Tendering**

2.3.1 The Tenderer shall bear all costs associated with the preparation and submission of its tender, and the procuring entity, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

2.3.2 All firms found capable of performing the contract satisfactorily in accordance with the set prequalification criteria shall be prequalified.

2.4 **The Tender Document**

2.4.1 The tender document comprises the documents listed below and addenda issued in accordance with clause 2.6 of these instructions to Tenderers:

(i) Invitation to Tender
(ii) Instructions to tenderers
(iii) General Conditions of Contract
(iv) Special Conditions of Contract
(v) Schedule of requirements
(vi) Technical Specifications
(vii) Tender Form and Price Schedules
(viii) Tender Security Form
(ix) Contract Form
(x) Manufacturer’s Authorization Form
(xi) Confidential Business Questionnaire
2.4.2 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tender documents. Failure to furnish all information required by the tender documents or to submit a tender not substantially responsive to the tender documents in every respect will be at the tenderers risk and may result in the rejection of its tender.

2.5 Clarification of Documents

2.5.1 A prospective tenderer requiring any clarification of the tender document may notify the Procuring entity in writing or by post at the entity’s address indicated in the Invitation to Tender. The Procuring entity will respond in writing to any request for clarification of the tender documents, which it receives not later than seven (7) days prior to the deadline for the submission of tenders, prescribed by the procuring entity. Written copies of the Procuring entities response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective tenderers that have received the tender document.

2.5.2 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

2.6 Amendment of Documents

2.6.1 At any time prior to the deadline for submission of tenders, the Procuring entity, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer, may modify the tender documents by amendment.

2.6.2 All prospective candidates that have received the tender documents will be notified of the amendment in writing or by post and will be binding on them.

2.6.3 In order to allow prospective tenderers reasonable time in which to take the amendment into account in preparing their tenders, the Procuring entity, at its discretion, may extend the deadline for the submission of tenders.

2.7 Language of Tender
2.7.1 The tender prepared by the tenderer, as well as all correspondence and documents relating to the tender exchange by the tenderer and the Procuring entity, shall be written in English language, provided that any printed literature furnished by the tenderer may be written in another language provided they are accompanied by an accurate English translation of the relevant passages in which case, for purposes of interpretation of the tender, the English translation shall govern.

2.8 Documents Comprising of Tender

2.8.1 The tender prepared by the tenderers shall comprise the following components

(a) a Tender Form and a Price Schedule completed in accordance with paragraph 2.9, 2.10 and 2.11 below

(b) documentary evidence established in accordance with paragraph 2.1 that the tenderer is eligible to tender and is qualified to perform the contract if its tender is accepted;

(c) documentary evidence established in accordance with paragraph 2.2 that the goods and ancillary services to be supplied by the tenderer are eligible goods and services and conform to the tender documents; and

(d) tender security furnished in accordance with paragraph 2.14

2.9 Tender Forms

2.9.1 The tenderer shall complete the Tender Form and the appropriate Price Schedule furnished in the tender documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

2.10 Tender Prices

2.10.1 The tenderer shall indicate on the appropriate Price Schedule the unit prices and total tender price of the goods it proposes to supply under the contract

2.10.2 Prices indicated on the Price Schedule shall include all costs including taxes, insurances and delivery to the premises of the entity.

2.10.3 Prices quoted by the tenderer shall be fixed during the Tender’s performance of the contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and will be rejected, pursuant to paragraph 2.22
2.10.4 The validity period of the tender shall be 120 days from the date of opening of the tender.

2.11 **Tender Currencies**

2.11.1 Prices shall be quoted in Kenya Shillings unless otherwise specified in the Appendix to Instructions to Tenderers.

2.12 **Tenderers Eligibility and Qualifications**

2.12.1 Pursuant to paragraph 2.1, the tenderer shall furnish, as part of its tender, documents establishing the tenderers eligibility to tender and its qualifications to perform the contract if its tender is accepted.

2.12.2 The documentary evidence of the tenderers eligibility to tender shall establish to the Procuring entity’s satisfaction that the tenderer, at the time of submission of its tender, is from an eligible source country as defined under paragraph 2.1.

2.12.3 The documentary evidence of the tenderers qualifications to perform the contract if its tender is accepted shall be established to the Procuring entity’s satisfaction;

   (a) that, in the case of a tenderer offering to supply goods under the contract which the tenderer did not manufacture or otherwise produce, the tenderer has been duly authorized by the goods’ Manufacturer or producer to supply the goods.
   (b) that the tenderer has the financial, technical, and production capability necessary to perform the contract;
   (c) that, in the case of a tenderer not doing business within Kenya, the tenderer is or will be (if awarded the contract) represented by an Agent in Kenya equipped, and able to carry out the Tenderer’s maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

2.13 **Goods Eligibility and Conformity to Tender Documents**

2.13.1 Pursuant to paragraph 2.2 of this section, the tenderer shall furnish, as part of its tender documents establishing the eligibility and conformity to the tender documents of all goods which the tenderer proposes to supply under the contract.
2.13.2 The documentary evidence of the eligibility of the goods shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

2.13.3 The documentary evidence of conformity of the goods to the tender documents may be in the form of literature, drawings, and data, and shall consist of:

(a) a detailed description of the essential technical and performance characteristic of the goods;

(b) a list giving full particulars, including available source and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of two (2) years, following commencement of the use of the goods by the Procuring entity; and

(c) a clause-by-clause commentary on the Procuring entity’s Technical Specifications demonstrating substantial responsiveness of the goods and service to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

2.13.4 For purposes of the documentary evidence to be furnished pursuant to paragraph 2.13.3(c) above, the tenderer shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procurement entity in its Technical Specifications, are intended to be descriptive only and not restrictive. The tenderer may substitute alternative standards, brand names, and/or catalogue numbers in its tender, provided that it demonstrates to the Procurement entity’s satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

2.14 Tender Security

2.14.1 The tenderer shall furnish, as part of its tender, a tender security for the amount specified in the Appendix to Invitation to Tenderers.

2.14.2 Any tender not secured in accordance with paragraph 2.14.1 and 2.14.3 will be rejected by the Procuring entity as non responsive, pursuant to paragraph 2.22.
2.15 Validity of Tenders

2.15.1 Tenders shall remain valid for 120 days or as specified in the Invitation to Tender after the date of tender opening prescribed by the Procuring entity, pursuant to paragraph 2.18. A tender valid for a shorter period shall be rejected by the Procuring entity as non-responsive.

2.15.2 In exceptional circumstances, the Procuring entity may solicit the Tenderer’s consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The tender security provided under paragraph 2.14 shall also be suitably extended. A tenderer may refuse the request without forfeiting its tender security. A tenderer granting the request will not be required nor permitted to modify its tender.

2.16 Format and Signing of Tender

2.16.1 The Procuring entity shall prepare two copies of the tender, clearly marking each “ORIGINAL TENDER” and “COPY OF TENDER,” as appropriate. In the event of any discrepancy between them, the original shall govern.

2.16.2 The original and all copies of the tender shall be typed or written in indelible ink and shall be signed by the tenderer or a person or persons duly authorized to bind the tenderer to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the tender. All pages of the tender, except for unamended printed literature, shall be initialed by the person or persons signing the tender.

2.16.3 The tender shall have no interlineations, erasures, or overwriting except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

2.17 Sealing and Marking of Tenders

2.17.1 The Tenderer shall seal the original and each copy of the tender in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” The envelopes shall then be sealed in an outer envelope.
2.17.2 The inner and outer envelopes shall:

(a) be addressed to the Procuring entity at the address given in the Invitation to Tender:

(b) bear, tender number and name in the Invitation for Tenders and the words, “DO NOT OPEN BEFORE,” 24th, March 2016 at 10:00am

2.18.1 The inner envelopes shall also indicate the name and address of the tenderer to enable the tender to be returned unopened in case it is declared “late”.

2.17.3 If the outer envelope is not sealed and marked as required by paragraph 2.17.2, the Procuring entity will assume no responsibility for the tender’s misplacement or premature opening.

2.18 Deadline for Submission of Tenders

Tenders must be received by the Procuring entity at the address specified under paragraph 2.17.2 no later than 24th, March 2016 at 10:00am

2.18.2

2.18.3 The Procuring entity may, at its discretion, extend this deadline for the submission of tenders by amending the tender documents in accordance with paragraph 2.6, in which case all rights and obligations of the Procuring entity and candidates previously subject to the deadline will therefore be subject to the deadline as extended

2.19 Modification and Withdrawal of Tenders

2.19.1 The tenderer may modify or withdraw its tender after the tender’s submission, provided that written notice of the modification, including substitution or withdrawal of the tenders, is received by the Procuring Entity prior to the deadline prescribed for submission of tenders.

2.19.2 The Tenderer’s modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of paragraph 2.17. A withdrawal notice may also be sent by cable, telex but followed by a signed confirmation copy, postmarked not later than the deadline for submission of tenders.
2.19.3 No tender may be modified after the deadline for submission of tenders.

2.19.4 No tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period of tender validity specified by the tenderer on the Tender Form. Withdrawal of a tender during this interval may result in the Tenderer’s forfeiture of its tender security, pursuant to paragraph 2.14.7.

2.19.5 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.

2.19.6 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

2.20 **Opening of Tenders**

The Procuring entity will open all tenders in the presence of tenderers’ representatives who choose to attend, at 24th March 2016 at 10:00am and in the location specified in the Invitation to Tender.

The tenderers’ representatives who are present shall sign a register evidencing their attendance.

2.20.2 The tenderers’ names, tender modifications or withdrawals, tender prices, discounts and the presence or absence of requisite tender security and such other details as the Procuring entity, at its discretion, may consider appropriate, will be announced at the opening.

2.20.3 The Procuring entity will prepare minutes of the tender opening.

2.21 **Clarification of Tenders**
2.21.1 To assist in the examination, evaluation and comparison of tenders the Procuring entity may, at its discretion, ask the tenderer for a clarification of its tender. The request for clarification and the response shall be in writing, and no change in the prices or substance of the tender shall be sought, offered, or permitted.

2.21.2 Any effort by the tenderer to influence the Procuring entity in the Procuring entity’s tender evaluation, tender comparison or contract award decisions may result in the rejection of the tenderers’ tender.

2.22 Preliminary Examination

2.22.1 The Procuring entity will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the tenders are generally in order.

2.22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the candidate does not accept the correction of the errors, its tender will be rejected, and its tender security forfeited. If there is a discrepancy between words and figures the amount in words will prevail.

2.22.3 The Procuring entity may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such waiver does not prejudice or effect the relative ranking of any tenderer.

2.22.4 Prior to the detailed evaluation, pursuant to paragraph 2.23 the Procuring entity will determine the substantial responsiveness of each tender to the tender documents. For purposes of these paragraphs, a substantially responsive tender is one which conforms to all the terms and conditions of the tender documents without material deviations. The Procuring entity’s determination of a tender’s responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
2.22.5 If a tender is not substantially responsive, it will be rejected by the Procuring entity and may not subsequently be made responsive by the tenderer by correction of the non conformity.

2.23  Conversion to Single Currency

2.23.1 Where other currencies are used, the procuring entity will convert these currencies to Kenya Shillings using the selling exchange rate on the date of tender closing provided by the Central Bank of Kenya.

2.24  Evaluation and Comparison of Tenders

2.24.1 The Procuring entity will evaluate and compare the tenders which have been determined to be substantially responsive, pursuant to paragraph 2.22

2.24.2 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.

2.24.3 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

2.25  Preference

2.25.1 Preference where allowed in the evaluation of tenders shall not exceed 15%

2.26  Contacting the Procuring entity
2.26.1 Subject to paragraph 2.21 no tenderer shall contact the Procuring entity on any matter related to its tender, from the time of the tender opening to the time the contract is awarded.

2.26.2 Any effort by a tenderer to influence the Procuring entity in its decisions on tender, evaluation, tender comparison, or contract award may result in the rejection of the Tenderer’s tender.

2.27 Award of Contract

(a) Post-qualification

2.27.1 In the absence of pre-qualification, the Procuring entity will determine to its satisfaction whether the tenderer that is selected as having submitted the lowest evaluated responsive tender is qualified to perform the contract satisfactorily.

2.27.2 The determination will take into account the tenderer financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the tenderers qualifications submitted by the tenderer, pursuant to paragraph 2.12.3 as well as such other information as the Procuring entity deems necessary and appropriate.

2.27.3 An affirmative determination will be a prerequisite for award of the contract to the tenderer. A negative determination will result in rejection of the Tenderer’s tender, in which event the Procuring entity will proceed to the next lowest evaluated tender to make a similar determination of that Tenderer’s capabilities to perform satisfactorily.

(b) Award Criteria

2.27.4 The Procuring entity will award the contract to the successful tenderer(s) whose tender has been determined to be substantially responsive and has been determined to be the lowest evaluated tender, provided further that the tenderer is determined to be qualified to perform the contract satisfactorily.

(c) Procuring entity’s Right to Vary quantities
2.27.5 The Procuring entity reserves the right at the time of contract award to increase or decrease the quantity of goods originally specified in the Schedule of requirements without any change in unit price or other terms and conditions

(d) Procuring entity’s Right to accept or Reject Any or All Tenders

2.27.6 The Procuring entity reserves the right to accept or reject any tender, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for the Procuring entity’s action

2.28 Notification of Award

2.28.1 Prior to the expiration of the period of tender validity, the Procuring entity will notify the successful tenderer in writing that its tender has been accepted.

2.28.2 The notification of award will constitute the formation of the Contract but will have to wait until the contract is finally signed by both parties

2.28.3 Upon the successful Tenderer’s furnishing of the performance security pursuant to paragraph 2.28, the Procuring entity will promptly notify each unsuccessful Tenderer and will discharge its tender security, pursuant to paragraph 2.14

2.29 Signing of Contract

2.29.1 At the same time as the Procuring entity notifies the successful tenderer that its tender has been accepted, the Procuring entity will send the tenderer the Contract Form provided in the tender documents, incorporating all agreements between the parties.

2.29.2 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.

2.29.3 Within thirty (30) days of receipt of the Contract Form, the successful tenderer shall sign and date the contract and return it to the Procuring entity.

2.30 Performance Security
2.30.1 Within Thirty (30) days of the receipt of notification of award from the Procuring entity, the successful tenderer shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the tender documents, or in another form acceptable to the Procuring entity.

2.30.2 Failure of the successful tenderer to comply with the requirements of paragraph 2.27 or paragraph 2.28 shall constitute sufficient grounds for the annulment of the award and forfeiture of the tender security, in which event the Procuring entity may make the award to the next lowest evaluated Candidate or call for new tenders.

2.31 Corrupt or Fraudulent Practices

2.31.1 The Procuring entity requires that tenderers observe the highest standard of ethics during the procurement process and execution of contracts when used in the present regulations, the following terms are defined as follows;

(i) “corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and

(ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring entity, and includes collusive practice among tenderer (prior to or after tender submission) designed to establish tender prices at artificial noncompetitive levels and to deprive the Procuring entity of the benefits of free and open competition;

2.31.2 The procuring entity will reject a proposal for award if it determines that the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

2.31.3 Further a tenderer who is found to have indulged in corrupt or fraudulent practices risks being debarred from participating in public procurement in Kenya.
Appendix to Instructions to Tenderers

Notes on the Appendix to the Instruction to Tenderers

1. The Appendix to instructions to tenderers is intended to assist the procuring entity in providing specific information in relation to the corresponding clause in the instructions to Tenderers included in Section II and has to be prepared for each specific procurement.

2. The procuring entity should specify in the appendix information and requirements specific to the circumstances of the procuring entity, the goods to be procured and the tender evaluation criteria that will apply to the tenders.

3. In preparing the Appendix the following aspects should be taken into consideration;

   (a) The information that specifies and complements provisions of Section II to be incorporated

   (b) Amendments and/or supplements if any, to provisions of Section II as necessitated by the circumstances of the goods to be procured to be also incorporated

4. Section II should remain unchanged and can only be amended through the Appendix.

5. Clauses to be included in this part must be consistent with the public procurement law and the regulations.
The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers

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<td>Indicate day, date and time of closing</td>
</tr>
<tr>
<td>2.29.1</td>
<td>As in 2.18.1 above</td>
</tr>
<tr>
<td>2.29.1</td>
<td>Indicate particulars of performance security</td>
</tr>
</tbody>
</table>

*(Complete as necessary)*
SECTION III: GENERAL CONDITIONS OF CONTRACT

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<th>Page</th>
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<td>29</td>
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</tbody>
</table>

3.1 Definitions

3.1.1 In this Contract, the following terms shall be interpreted as indicated:
(a) “The Contract” means the agreement entered into between the Procuring entity and the tenderer, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

(b) “The Contract Price” means the price payable to the tenderer under the Contract for the full and proper performance of its contractual obligations.

(c) “The Goods” means all of the equipment, machinery, and/or other materials, which the tenderer is required to supply to the Procuring entity under the Contract.

(d) “The Procuring entity” means the organization purchasing the Goods under this Contract.

(e) “The Tenderer’ means the individual or firm supplying the Goods under this Contract.

3.2 Application

3.2.1 These General Conditions shall apply in all Contracts made by the Procuring entity for the procurement installation and commissioning of equipment.

3.3 Country of Origin

3.3.1 For purposes of this clause, “Origin” means the place where the Goods were mined, grown or produced.

3.3.2 The origin of Goods and Services is distinct from the nationality of the tenderer.

3.4 Standards

3.4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications.
3.5 Use of Contract Documents and Information

3.5.1 The tenderer shall not, without the Procuring entity’s prior written consent, disclose the Contract, or any provision therefore, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring entity in connection therewith, to any person other than a person employed by the tenderer in the performance of the Contract.

3.5.2 The tenderer shall not, without the Procuring entity’s prior written consent, make use of any document or information enumerated in paragraph 3.5.1 above.

3.5.3 Any document, other than the Contract itself, enumerated in paragraph 3.5.1 shall remain the property of the Procuring entity and shall be returned (all copies) to the Procuring entity on completion of the Tenderer’s performance under the Contract if so required by the Procuring entity.

3.6 Patent Rights

3.6.1 The tenderer shall indemnify the Procuring entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring entity’s country.

3.7 Performance Security

3.7.1 Within thirty (30) days of receipt of the notification of Contract award, the successful tenderer shall furnish to the Procuring entity the performance security in the amount specified in Special Conditions of Contract.

3.7.2 The proceeds of the performance security shall be payable to the Procuring entity as compensation for any loss resulting from the Tenderer’s failure to complete its obligations under the Contract.

3.7.3 The performance security shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring entity and shall be in the form of a bank guarantee or an irrevocable letter of credit issued by
a reputable bank located in Kenya or abroad, acceptable to the Procuring entity, in the form provided in the tender documents.

3.7.4 The performance security will be discharged by the Procuring entity and returned to the Candidate not later than thirty (30) days following the date of completion of the Tenderer’s performance obligations under the Contract, including any warranty obligations, under the Contract.

3.8 **Inspection and Tests**

3.8.1 The Procuring entity or its representative shall have the right to inspect and/or to test the goods to confirm their conformity to the Contract specifications. The Procuring entity shall notify the tenderer in writing in a timely manner, of the identity of any representatives retained for these purposes.

3.8.2 The inspections and tests may be conducted in the premises of the tenderer or its subcontractor(s), at point of delivery, and/or at the Goods’ final destination. If conducted on the premises of the tenderer or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring entity.

3.8.3 Should any inspected or tested goods fail to conform to the Specifications, the Procuring entity may reject the equipment, and the tenderer shall either replace the rejected equipment or make alterations necessary to make specification requirements free of costs to the Procuring entity.

3.8.4 The Procuring entity’s right to inspect, test and where necessary, reject the goods after the Goods’ arrival shall in no way be limited or waived by reason of the equipment having previously been inspected, tested and passed by the Procuring entity or its representative prior to the equipment delivery.

3.8.5 Nothing in paragraph 3.8 shall in any way release the tenderer from any warranty or other obligations under this Contract.

3.9 **Packing**
3.9.1 The tenderer shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.

3.9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract.

3.10 **Delivery and Documents**

3.10.1 Delivery of the Goods shall be made by the tenderer in accordance with the terms specified by Procuring entity in its Schedule of Requirements and the Special Conditions of Contract.

3.11 **Insurance**

3.11.1 The Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacturer or acquisition, transportation, storage, and delivery in the manner specified in the Special conditions of contract.

3.12 **Payment**

3.12.1 The method and conditions of payment to be made to the tenderer under this Contract shall be specified in Special Conditions of Contract.

3.12.2 Payments shall be made promptly by the Procuring entity as specified in the contract.

3.13 **Prices**

3.13.1 Prices charged by the tenderer for goods delivered and services performed under the Contract shall not, with the exception of any price adjustments authorized in Special Conditions of Contract, vary from the prices by the tenderer in its tender.

3.13.2 Contract price variations shall not be allowed for contracts not exceeding one year (12 months).
3.13.3 Where contract price variation is allowed, the variation shall not exceed 10% of the original contract price.

3.13.4 Price variation request shall be processed by the procuring entity within 30 days of receiving the request.

3.14. Assignment

3.14.1 The tenderer shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring entity’s prior written consent.

3.15 Subcontracts

3.15.1 The tenderer shall notify the Procuring entity in writing of all subcontracts awarded under this Contract if not already specified in the tender. Such notification, in the original tender or later, shall not relieve the tenderer from any liability or obligation under the Contract.

3.16 Termination for default

3.16.1 The Procuring entity may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the tenderer, terminate this Contract in whole or in part:

   (a) if the tenderer fails to deliver any or all of the goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring entity;

   (b) if the tenderer fails to perform any other obligation(s) under the Contract;

   (c) if the tenderer, in the judgment of the Procuring entity has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

3.16.2 In the event the Procuring entity terminates the Contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, equipment similar to those undelivered, and the tenderer shall be liable to the Procuring entity for any excess costs for such similar goods.

3.17 Liquidated Damages
3.17.1. If the tenderer fails to deliver any or all of the goods within the period(s) specified in the contract, the procuring entity shall, without prejudice to its other remedies under the contract, deduct from the contract prices liquidated damages sum equivalent to 0.5% of the delivered price of the delayed items up to a maximum deduction of 10% of the delayed goods. After this the tenderer may consider termination of the contract.

3.18 Resolution of Disputes

3.18.1 The procuring entity and the tenderer shall make every effort to resolve amicably by direct informal negotiation and disagreement or dispute arising between them under or in connection with the contract

3.18.2 If, after thirty (30) days from the commencement of such informal negotiations both parties have been unable to resolve amicably a contract dispute, either party may require adjudication in an agreed national or international forum, and/or international arbitration.

3.19 Language and Law

3.19.1 The language of the contract and the law governing the contract shall be English language and the Laws of Kenya respectively unless otherwise stated.

3.20 Force Majeure

3.20.1 The tenderer shall not be liable for forfeiture of its performance security or termination for default if and to the extent that it’s delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
Notes on Special Conditions of Contract

The clauses in this section are intended to assist the procuring entity in providing contractspecific information in relation to corresponding clauses in the General Conditions of Contract.

The provisions of Section IV complement the General Conditions of Contract included in Section III, specifying contractual requirements linked to the special circumstances of the procuring entity and the goods being procured. In preparing Section IV, the following aspects should be taken into consideration.

(a) Information that complement provisions of Section III must be incorporated and
(b) Amendments and/or supplements to provisions of Section III, as necessitated by the circumstances of the goods being procured must also be incorporated.

SECTION IV  SPECIAL CONDITIONS OF CONTRACT

4.1. Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, between the GCC and the SCC, the provisions of the SCC herein shall prevail over these in the GCC.

42. Special conditions of contract as relates to the GCC
REFERENCE OF GCC OF SPECIAL CONDITIONS OF CONTRACT

<table>
<thead>
<tr>
<th>Reference</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7.1</td>
<td>Indicate particulars of performance security</td>
</tr>
<tr>
<td>3.12.1</td>
<td>Indicate terms of payment</td>
</tr>
<tr>
<td>3.18.1</td>
<td>Indicate resolutions of disputes</td>
</tr>
</tbody>
</table>

(Complete as necessary)

Mandatory requirement

1. Certificate of incorporation
2. Pin certificate
3. Valid tax compliance
4. Manufacturers authorizations letter

SECTION V TECHNICAL SPECIFICATIONS
5.1 General

5.1.1 These specifications describe the requirements for goods. Tenderers are requested to submit with their offers the detailed specifications, drawings, catalogues, etc for the products they intend to supply.

5.1.2 Tenderers must indicate on the specifications sheets whether the equipment offered comply with each specified requirement.

5.1.3 All the dimensions and capacities of the equipment to be supplied shall not be less than those required in these specifications. Deviations from the basic requirements, if any shall be explained in detail in writing with the offer, with supporting data such as calculation sheets, etc. The procuring entity reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products.

5.1.4 The tenderers are requested to present information along with their offers as follows:

(i) Shortest possible delivery period of each product
(ii) Information on proper representative and/or workshop for back-up service/repair and maintenance including their names and addresses.
5.2 PARTICULARS

[Text of Technical Specifications to be inserted in the tender documents by the Procuring entity, as applicable]

1. Digital X-ray Technical Specification

1. CONFIGURATION

- Digital Flat-Panel Detector (Table)
- Digital Flat-Panel Detector (Wall stand)
- Imaging Software with post processing
- Imaging workstation & 23inch LCD monitor
- High Frequency X-ray Generator: 52KW (Line powered including AEC)
- 12inch Touch screen LCD Console
- Patient Table Elevating, AEC ion chamber
- Wall Bucky Stand
- Tube Stand Floor mounted
- X-ray tube Toshiba
- Collimator
- HV cable
### 2. Specification

#### 2.1 Digital Flat Panel Detector

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Varia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Pixel Area / Matrix</td>
<td>17 x 17 inch (3,052 x 3,052)</td>
</tr>
<tr>
<td>Pixel Limiting Resolution</td>
<td>139μ</td>
</tr>
<tr>
<td>Screen Energy Range</td>
<td>CsI or 40 –</td>
</tr>
<tr>
<td>A/D Conversion Interface</td>
<td>Gigabit</td>
</tr>
<tr>
<td>Weigh</td>
<td>7.5kg</td>
</tr>
</tbody>
</table>

#### 2.2 Imaging Workstation

<table>
<thead>
<tr>
<th>CPU</th>
<th>Intel(R) Core i5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memor</td>
<td>4GB DDR3</td>
</tr>
<tr>
<td>Display</td>
<td>NVIDIA NVS 310 512MB GFX(Dual)</td>
</tr>
<tr>
<td>Storag</td>
<td>500GB x 2, 7200RPM SATA HDD</td>
</tr>
<tr>
<td>Make</td>
<td>HP</td>
</tr>
<tr>
<td>Weigh</td>
<td>12kg (26lb)</td>
</tr>
</tbody>
</table>

#### 2.3 Monitor

| Display | 23 inch Color LCD |
| Resolutio | 1920 x 1080 pixels |
| ETC | LED backlight, Antiglare coating |
| Make | DELL |
| Weigh | 7kg (15lb) |
### 2.4 Imaging Software

1) General Features
- Windows based graphic user interface
- Multi-image display (1x1 / 2x2 / 3x3 / 4x4)
- Multi-image selection
- Auto display layout changing function
- X-ray generator control panel
- Unlimited procedure step
- Quick step add feature and image maintenance feature by popup menu
- ROI changing and creation feature
- Maker feature (support the creation of unlimited number of maker by user)
- Multi-language support
- EXCEL sheet for language support (only possible on Microsoft Office automation environment)
- DAP meter (optional)
- Unlimited PACS code (CPT code)
- Default anatomic program more than 700
- Support DICOM Worklist SCU, DICOM Storage SCU and transfer function
- Support DICOM Multi-transfer function
- High-performance post-processing feature

2) Post processing parameters
- Noise reduction parameter (de-noise parameter): 10 level
- Global contrast parameter: 10 level
- Detail contrast parameter: 10 level
- Edge enhancement parameter: 10 level
- Edge enhancement frequency parameter: 5 level
- Dynamic range compression parameter: 10 level

3) Image Maintenance (All functions are supported by the pop-up menu)
- ROI: Default 8 ROI support / Unlimited support for anatomic projection
- MARK: Unlimited support (User preset support)
- Horizontal Flip
- Vertical Flip
- Rotate CW
- Rotate CCW
- Inverse (Black or White)
• Text Annotation
• Ruler : Distance tool
• Angle : Angle measurement tool
• Zoom : Image zoom in/out
• Magnify : Image magnify glass window
• Pan : Image panning
• Fit Image : Auto fitting to window size
• Image Cut : Image crop/cut function
• Image Copy : Copy of image in the region of interest(ROI)
• Image Recovery : Recover the original image
• Image Bright/Contrast control : Supported by right-click mouse

4) CD Burning
• DICOMDIR based CDR data generation
• Support CD/DVD Recording
• Include internal DICOM Viewer
• Support multi-study data

5) DICOM Features : DICOM PRINT
• DICOM 3.0 compatible
• Support Print Preview
• Support Film Layout : 1:1 / 1:2 / 2:1 / 2:2
• Support multi-page printing
• Support Real size printing
• Support transfer progress bar
• Support image swap in layout

6) DICOM Feature : DICOM STORAGE
• DICOM 3.0 compatible
• Support DX/CR modality ( can be extended for DR and other )
• Support the modification of Transfer Syntax

7) DICOM Feature : MPPS
• Support Modality Performed Procedure Step feature
• Provides only three state : FAILED / IN PROGRESS / OK

8) DICOM Feature : WORKLIST
• Suppo DICOM Modality Worklist Standard
• Suppo DICOM Query/Retrieve
• rtSuppo Search Filter ( ID / Name / Access
• rtSuppo NuImpmort ber Filt ) er

9) Overlay Display on image
• Projection description
• Patient Name / Sex / Age
• kV / mA / Time / mAs
• Feed-back mAs / Feed-back Time for AEC
• El(Exposure Index) / Di(Deviation Index)
• Window Width/Level
• Overlay can be set by user

2.5 X-ray Generators
<table>
<thead>
<tr>
<th><strong>Output Rating</strong></th>
<th><strong>52k</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Line Nominal, Phase</strong></td>
<td>400VAC,</td>
</tr>
<tr>
<td><strong>Line Voltage Range kV</strong></td>
<td>±10% (Frequency: 40~150kV, 1kV)</td>
</tr>
<tr>
<td><strong>mA</strong></td>
<td>10 to</td>
</tr>
<tr>
<td><strong>Timer Range</strong></td>
<td>0.001 to 10 sec, 38</td>
</tr>
<tr>
<td><strong>mAs Range</strong></td>
<td>0.1 to 500mAs (Optional 640, 800, 1,000mAs)</td>
</tr>
<tr>
<td><strong>Max. Power Output</strong></td>
<td><strong>640mA@81kV, 500mA@104kV, 400mA@130kV, 320mA@150kV</strong></td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td>Minimum 125% of output rating</td>
</tr>
<tr>
<td><strong>Rotor Supply</strong></td>
<td>Low</td>
</tr>
<tr>
<td><strong>Reproducibility</strong></td>
<td>Coefficient of Variation: kV &lt; 0.005, Time &lt; 0.005, mAs &lt; 0.01</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>kV &lt; ±(1%+1kV), mA &lt; ±(3%+1mA), Time &lt; ±(1%+0.5ms), mAs &lt;</td>
</tr>
<tr>
<td><strong>Linearity</strong></td>
<td>Coefficient of Linearity &lt; 0.01 : CL = (X1-X2)/(X1+X2), where X is</td>
</tr>
<tr>
<td><strong>Anatomical Programs</strong></td>
<td>User programmable max. 1,280 programs with APR utility software</td>
</tr>
<tr>
<td><strong>Technique Selection</strong></td>
<td>4 point display(kV, mA, Time, mAs)</td>
</tr>
<tr>
<td><strong>Image Receptors</strong></td>
<td>2 Bucky + 1 Non-</td>
</tr>
<tr>
<td><strong>Leakage Radiation</strong></td>
<td>Less than</td>
</tr>
<tr>
<td><strong>Dimension / Weight</strong></td>
<td><strong>Control Console</strong> 336(W) x 47(H) x 232(D) mm / 1.7kg(3.8lbs)</td>
</tr>
<tr>
<td><strong>Main Cabinet</strong></td>
<td>650(W) x 655(H) x 455(D) mm /</td>
</tr>
</tbody>
</table>

### 2.6 Patient Table

<table>
<thead>
<tr>
<th><strong>Tabletop Movement</strong></th>
<th><strong>Longitudinal</strong> 1,000(±500)m</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transverse(Lateral)</strong></td>
<td>250(±125)m</td>
</tr>
<tr>
<td><strong>Trave</strong></td>
<td>285(565~850)mm,</td>
</tr>
<tr>
<td><strong>Spee</strong></td>
<td>17mm/se</td>
</tr>
<tr>
<td><strong>Vertical Buck</strong></td>
<td><strong>Motorized movement by Foot Switch</strong></td>
</tr>
<tr>
<td><strong>Operatin</strong></td>
<td><strong>Inherent Filtration</strong> 1.2mmAl at 100kV</td>
</tr>
<tr>
<td><strong>Longitudinal</strong></td>
<td><strong>Max. Patient Weight</strong> 300kg(660lb)</td>
</tr>
</tbody>
</table>
### Tabletop

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2,200(W) x 810(D) x 45(H) mm</td>
</tr>
<tr>
<td>Oscillating</td>
<td>FD 100 cm, 103 lpi, ratio 10:1</td>
</tr>
<tr>
<td>EM Lock, Foot Switch on/off</td>
<td></td>
</tr>
<tr>
<td>Transverse center, height center</td>
<td></td>
</tr>
<tr>
<td>2-story telescopic</td>
<td></td>
</tr>
<tr>
<td>Electrical Rating</td>
<td>100–240 Vac, 400 VA, 50/60 Hz</td>
</tr>
<tr>
<td>Dimension / Weight</td>
<td>Max. 2200(W) x 810(D) x 850(H) mm / 260 kg (573 lbs)</td>
</tr>
</tbody>
</table>

### 2.7 Wall stand

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cassette stroke</td>
<td>Vertical 1,390 mm (420~1,810 mm from floor to Bucky</td>
</tr>
<tr>
<td>Oscillating</td>
<td>FD 150 cm, 103 lpi, ratio 10:1</td>
</tr>
<tr>
<td>EM Lock, Switch</td>
<td></td>
</tr>
<tr>
<td>Counter</td>
<td></td>
</tr>
<tr>
<td>24 VDC</td>
<td></td>
</tr>
<tr>
<td>Dimension / Weight</td>
<td>Max. 1,920(H) x 740(W) x 410(D) mm / 120 kg (264 lbs)</td>
</tr>
</tbody>
</table>

### 2.8 Tube stand

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column Rotation</td>
<td>90° step, Foot</td>
</tr>
<tr>
<td>Electrical Rating</td>
<td>24 VDC,</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube Rotation Angle</td>
<td>±135</td>
</tr>
<tr>
<td>Longitudinal</td>
<td>2,500 m</td>
</tr>
<tr>
<td>Latera</td>
<td>220 m</td>
</tr>
<tr>
<td>Vertical</td>
<td>1,330 mm (430~1,760 mm from floor to Bucky)</td>
</tr>
<tr>
<td>Lock(Brak)</td>
<td></td>
</tr>
<tr>
<td>Balanc</td>
<td></td>
</tr>
<tr>
<td>EM Lock, Switch</td>
<td>Counter</td>
</tr>
<tr>
<td>Counter</td>
<td></td>
</tr>
<tr>
<td>Dimension / Weight</td>
<td>2,060(H) x 1,140(D) mm / 180kg(397lbs)</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>---------------------------------------</td>
</tr>
</tbody>
</table>

**2.9 Collimator**

<table>
<thead>
<tr>
<th>Control Field</th>
<th>Manual with 30sec. lamp timer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shape</td>
<td>Rectangular</td>
</tr>
<tr>
<td>Max. Field Size</td>
<td>43x43cm (17x17inch) at 100cm SID</td>
</tr>
<tr>
<td>Leakage Radiation</td>
<td>Less than</td>
</tr>
<tr>
<td>Max. kVp shield</td>
<td>150k</td>
</tr>
<tr>
<td>Inherent Filtration</td>
<td>1.2mmAl</td>
</tr>
<tr>
<td>Luminosity Light</td>
<td>Over 160LUX at 100cm SID (Typ. 200LUX)</td>
</tr>
<tr>
<td>Electrical Rating</td>
<td>HLX64640 150W 24V G6,35 / OSRAM</td>
</tr>
<tr>
<td>Dimension / Weight</td>
<td>185(W) x 213(D) x 180(H) mm / 6.3kg(13.9lb)</td>
</tr>
</tbody>
</table>
### 2.10 X-ray Tube

<table>
<thead>
<tr>
<th>Manufacture</th>
<th>TOSHIBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal Spot</td>
<td>0.6/1.2m</td>
</tr>
<tr>
<td>Rating(0.1</td>
<td>22/54kW@60</td>
</tr>
<tr>
<td>Max. Anode HU</td>
<td>300kHU(210)</td>
</tr>
<tr>
<td>Target</td>
<td>12°</td>
</tr>
<tr>
<td>Max.</td>
<td>150k</td>
</tr>
<tr>
<td>Weigh</td>
<td>16kg (35.3lb)</td>
</tr>
<tr>
<td>Inherent Filtration</td>
<td>0.9mmAl/75</td>
</tr>
<tr>
<td>Additional Filtration</td>
<td>1.0mm</td>
</tr>
<tr>
<td>Half Value Layer</td>
<td>More than 2.9mmAl eq. at 80kVp</td>
</tr>
<tr>
<td>Leakage Radiation</td>
<td>Less than</td>
</tr>
</tbody>
</table>

### 2.11 AEC Ion Chamber

<table>
<thead>
<tr>
<th>Field</th>
<th>3 Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray Energy Range</td>
<td>40~150kV</td>
</tr>
<tr>
<td>Dose Rate Range</td>
<td>0.2mV/mR~8V/mR</td>
</tr>
<tr>
<td>Exposure Dose Range</td>
<td>0.4~600mAs</td>
</tr>
<tr>
<td>Inherent Filtration</td>
<td>0.4 mm Al eq.</td>
</tr>
<tr>
<td>Weigh</td>
<td>2kg (4.4lb)</td>
</tr>
</tbody>
</table>
2.12 Environment

OPERATING ENVIRONMENT
Ambient temperature range
10 to 35 °C (50 to 95 °F). Relative humidity 30% to 75%, non-condensing Atmospheric pressure range 800 hPa to 1060 hPa

Must be CE marked.
Warranty: Minimum of 1 year.
Vendor must submit evidence of being a member of the Kenya Radiation Protection Board for at least 1 year. Training and Installation should be included.
Must have manufacturer authorization letter
SECTION VI - SCHEDULE OF REQUIREMENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Delivery schedule (shipment)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>In Weeks/months from ________</td>
</tr>
</tbody>
</table>

1 SECTION VII - PRICE SCHEDULE FOR DIGITAL X-RAY MACHINE

Name of tenderer ______ Tender Number _____ Page _____ of _______

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
</table>

1 The Procuring entity must specify here the date from which the delivery schedule will start. That date should be either the date of the contract award, or the date of contract signature, or the date of opening of letter of credit, or the date of confirmation of the Letter of Credit, as appropriate. The Tender Form should include only a cross reference to this Schedule.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Country of origin</th>
<th>Quantity</th>
<th>Unit price</th>
<th>Total Price EXW per item (cols. 4x5)</th>
<th>Unit price of other incidental services payable</th>
</tr>
</thead>
</table>

Signature of tenderer .................................................................

*Note:* In case of discrepancy between unit price and total, the unit price shall prevail.

**2. Portable Color ECHO Ultrasound Specifications**

**Features:**
- PC-based Open Architecture Platform
- Fully Digital, Multi-beam Processing
- Advanced Ergonomics Workflow
- Automatic Frequency Adjustment
- Hyper Sensitive PW and CW Doppler
- High-intensity, Ultra wide view TFT LCD
- Fully Integrated Communication
- Anatomical M-mode
- Doppler Tissue Imaging
- Easy Print capability
System Overview Display

Modes

Basic Imaging Modes
- B-mode (2D)
- Harmonic Imaging
- Spatial Compounding
- Trapezoidal Imaging
- Image enhancement filters
- M-mode
- Anatomical M-mode
- PW Doppler
- CW Doppler
- Color Doppler (CFM) / (Directional) Power Doppler / Velocity Directional Power Doppler
- Color M-mode
- Doppler Tissue Imaging (DTI) Combined Modes
- B dual simple and synchronized
- B + M, full M
- Duplex (B + PW/CW)
- Full PW
- Full CW
- CFM dual simple and synchronized
- Triplex (B + CFM+ PW)

System Architecture

Architecture
- Digital beamformer
- Digital signal processing
- PC based, Multi-beam processing
- Modular concept
- Dedicated CW beamformer
- Import / export setting capability through CD-R/RW, DVD-R/RW and USB key

Frame Rates
- > 300 fps in B-mode (transducer and application dependent)
- > 40 fps in CFM (depth, angle and clinical application dependent)

Probe Connectors
- 2 active electronic probe connectors
- 1 pencil probe connector

Keyboard
- Back lighted buttons, controls and alphanumeric keys
- PC-like mouse functions (trackball, right and left buttons)
- Minimum keystrokes for each operation
- Multi-language compatibility

Gain Controls
- Overall B/M: 0 to 31
- Doppler: 0 to 30 dB
- CFM: 0 to 20
- STC: 8 slider pots

Grey and Color Shades
- 256 grey levels
- 256 color levels
• 4 color gamma maps for optimum rendering of echo structures

Video Display
• 15" active matrix (TFT) LCD flat monitor
• 1024 x 768 pixels, XGA non-interlaced
• Ultrasound image: 824 x 555 pixels x 24 bits

Screen Information
• PC-like navigation
• Hierarchical submenus for optimum workflow
• Patient ID, facility name, date, time
• Technical data field with all pertinent parameters
• Measurement field displaying the last ten measurement results
• Transmit / receive frequency indicator
• Real time ECG trace display
• Heart rate
• Freeze indicator
• Cine scrolling memory indicator
• CFM ROI position and size
• Image orientation indicator
• Over 40 body markers
• M-mode and Doppler mode cursors
• Image thumbnails for archiving
• Biopsy guide indicator (one or two lines for biopsy guidance)
• Display of some information according to user preferences

Settings
• Application based presets for fast and easy image quality optimization
• User programmable settings

Ultrasound Application

B-mode (2D) Image Format
• Depth: 2 to 30 cm (transducer dependent)
• Angle: 30° to 165° (transducer dependent)
• Trapezoidal image
• Zoom 4 steps (live and freeze)

Signal Processing
• AFA (Automatic Frequency Adjustment) - range dependent
• Receiver bandwidth: 1.5 to 15 MHz (-3 dB)
• Second Harmonic Imaging
• Receiver gain control: 32 steps
• Time Gain Compensation: 8 slider pots
• Dynamic focusing on pixel level
• Dynamic adjustment of receiver bandwidth
• Edge enhancement: 7 levels, application dedicated
• Dynamic range (reject): 244dB, 96dB adjustable on 8 positions over whole dynamic range
• Frame filter: 8 non-linear smoothing filters
• One touch image optimization
• Spatial Compounding: 8 levels with range dependent on frame weighting and contrast enhancement

Parameters.
• Different filter settings that depend on probe and medical application.
• Probe Management: Easy to switch probe and application. No need to disconnect / connect the probe when changing the application.
Image Control
- Freeze / Unfreeze
- Left / Right
- Up / Down
- Video invert

M-mode

Signal Processing
- As for B-mode

Display Parameters
- Sweep speed
- 2 to 8 sec / screen (full screen M-mode)
- 1 to 4 sec / screen (B + Mmode)
- Automatic M-mode image updated when adjusting steering line position

Steering Line
- Trackball controlled over complete B sector
- Anatomical M-mode (User positioned on whole B sector)

Spectral Doppler Modes

Supported Mode
- PW Doppler
- CW Doppler
- PW Doppler Tissue Imaging (DTI)

Signal Processing
- Frequencies: 2, 2.5, 3, 4, 5, 7 MHz (transducer dependent)
- Wall filter: 50 to 1000 Hz
- Up to 512 points FFT
- Spectral gain control: 11 positions from 0 to 30 dB (adjusted in both live and frozen modes)
- Doppler angle correction (adjusted in both live and frozen modes)
- Stereo audio for flow direction indication
- Adjustable audio volume
- Post-processing baseline shift and gain adjustment
- One touch Doppler optimization

Velocities
- PW: ± 1 kHz to ± 24 kHz
- CW: ± 1 kHz to ± 48 kHz
- Velocity range: ± 5 cm/s to ± 9.02m/s (transducer and application dependent)

Display Parameters
- Duplex
- Baseline shift: 9 positions to avoid spectral aliasing, in live and freeze
- Sweep speed
- 2 to 8 sec / screen (full screen spectrum)
- 1 to 4 sec / screen (B / CFM + spectrum)
- Vmean and Vmax traces
Steering Line
- Trackball controlled over complete B sector
- Doppler gate size (PW): 1 to 15mm, in 1 mm steps

**Color Doppler and Power Doppler Modes, Color M mode**

**Supported Mode**
- Velocity mode
- (Directional) Power Doppler Mode
- Velocity Directional Power Doppler Mode
- Doppler Tissue Imaging (DTI)

**Signal Processing**
- Frequencies: 2, 2.5, 3, 4, 5, 7 MHz (transducer dependent)
- Wall filter: 50 to 1000 Hz
- Color gain control: 21 positions from 0 to 20 dB
- Color persistence: 4 levels
- Color range: 7 positions of color range sharpness
- Post-processing: threshold settings

**Velocities**
- Doppler shift: $\pm 250$ Hz to $\pm 24$kHz
- Velocity range: $\pm 1.4$ cm/s to $\pm 4.51$ m/s (transducer and application dependent)

**Display Parameters**
- Triplex mode
- Baseline shift: 9 positions
- Color on/off
- Turbulence on/off
- Color invert
- Sweep speed for Color M mode
- 2 to 8 sec / screen (full screen Color M)
- 1 to 4 sec / screen (B / CFM + Color M)

**Database, Measurements, Reporting Archiving and Communication**
160 GBytes HDD / 120 GBytes SSD internal hard disk
USB key import / export capability
Up to 600 frames cine memory (standard), up to 3000 frames
Windows Network compatibility
DICOM media storage (import and export) from CD-RW or USB key.

**Data Management and Archiving System (integrated PACS)**
- Patient data management
- Off-line measurements
- Archiving
- still images and cine loops
- acquired or imported data
- Reporting
- Format: bmp, jpeg, mpeg, pdf, html, DICOM 3.0
- Integrated Long Term Archiving and Backup function
Measurements

Measurement Packages for:
- Abdominal
- Ob/Gyn
- Small parts
- Breast
- Vascular
- ECHO

Basic Measurements for:
- Distance
- Area (Freehand or Spline Line)
- Circumference
- Ellipse
- Angle
- Volume (Simpson Volume for Cardiology only) (Freehand or Spline Line)
- Volume 2 (Ellipsoid Volume)
- Time
- Slope
- Velocity, velocity profile
- Speed gradient
- Acceleration
- Integral - Automatic (with offset adjustment) and Manual (Freehand or Spline line), PI & RI.
- Vmean, Vmax
- Heart-rate

Annotations
- Annotations list: System pre-defined and Allow user add-ons.
- Free Text
- Arrows
- Body markers (independent for dual mode)

Input / Output Connectors
- 2 USB ports
- 1 LAN port (Ethernet TX100/1000)
- Composite video and S-video Out, PAL / NTSC compatible
- I/O Extension Unit port:
  - SVGA monitor output
  - Footswitch connector
- 4 USB ports
- Composite Video and S-Video Out
- B&W video out
- 2 Printers remote control
- Isolation Transformer Control

Environmental Conditions Electrical Specifications
- Power supply: 100-240 V ± 10%
- Mains frequencies: 50 – 60 Hz
- Power consumption: max 167 VA without peripherals
- Battery operating time: > 1h
**General**
External Dimensions 367(W) x364(D) x98(H) mm
Weight 7.4Kg with Battery

**Environment In Operation**
- Temperature: 10 to 40° C
- Humidity: 30 to 80% (non condensing)
- Atmospheric pressure: 700 to 1060 mbar

**Regulations and Safety**

**Regulations**
- CE mark
- MDD mark (2007/47/EC)

**Safety**
- IEC 60601-1:2005 Class I Type BF (electrical Safety)
- ISO 10993-1:2009
- ISO 14971:2007

**Options Provided**
- Cart – Trolley for the portable ultrasound.
- Printer
- Convex Array probe 2.5/5.0MHz, 60R 1pc
- Linear Array Probe 5.0/12.0MHz, 38m 1pc
- Phased Array Probe 1pc

Vendor must submit evidence of trained personnel for both service and applications.
Installation at the sites with Sonography training to be provided.
Must be CE marked.
Warranty: Minimum of 1 year.
**Must be CE marked.**
Warranty: Minimum of 1 year
Must have manufacturer authorization letter

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**SECTION VI - SCHEDULE OF REQUIREMENTS**

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SECTION VII - PRICE SCHEDULE FOR PORTABLE COLOR ECHO ULTRASOUND

Name of tenderer _____  Tender Number _____  Page _____ of _______

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
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<td>3</td>
<td>4</td>
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<td>6</td>
<td>7</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
<td>Country of origin</td>
<td>Quantity</td>
<td>Unit price</td>
<td>Total Price EXW per item (cols. 4x5)</td>
<td>Unit price of other incidental services payable</td>
</tr>
</tbody>
</table>

Signature of tenderer ________________________________

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3. COMPLETE DENTAL CHAIR UNIT SPECIFICATIONS

Dental Unit with,
· mechanical brake for arm
· 3 way syringe straight
· kit silent power 2l
· micromotor handy power
· assistant table
· bowl manual motion
· Tray holder for assist. mod.
· Kit syringe 3f.ass ang.handle.
· s.s.s. system
· Autosteril semiautomatic syst.
· auto wash-disinfection sys
· wet line
· venus plus lamp on unit
· multifunction foot control
· dental chair
· manual motion headrest
· right armrest
· Kit upholstery n.s.
· footrest kit
· chair seat protection
· dental stool
· light cure
· dental compressor
· suction

Chair lift up to 190 Kg
Chair with suction stop device (stop the aspiration without putting back the cannula)
Chair with extendable and removable footrest for higher patients and easy disinfection
Option for 3 axis-headrest
4 kind of pedal available
Option for Wireless pedal
Backrest made of alluminium
Option for scaler on the Assistant's table
Option for Midwest on the Assistant's table
Option for Assistant's table with two joints and height regulation
Removable and sterilizable handle of doctor's table (SP version)
Disinfectable and removable instruments hoses, with quick coupling
Hygiene system for high level disinfection of the tubes (Autosteril S)
Container and slots for the hygiene systems of tubes, integrated in the hydrogoup of the unit. (Polysteril container)
Micromotor with LED light, maximum Torque 3.3 Ncm, Speed Range 100-40.000 rpm (Handy Power LED)
Micromotor with LED light, maximum Torque 5.3 Ncm, Speed Range 10040.000 rpm, sterilizable up to 135°C (Implantor LED)

Warranty Period: Minimum of 1 year.

ISO / CE certificate to be provided.

SECTION VII  -  PRICE SCHEDULE FOR DENTAL CHAIR

<table>
<thead>
<tr>
<th>Name of tenderer</th>
<th>Tender Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item Description</td>
<td>Country of origin</td>
<td>Quantity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<th>7</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Description</td>
<td>Country of origin</td>
<td>Quantity</td>
<td>Unit price</td>
<td>Total Price EXW per item (cols. 4x5)</td>
<td>Unit price of other incidental services payable</td>
</tr>
</tbody>
</table>

53
DENTAL X-RAY SPECIFICATIONS

Panoramic imaging, cephalometric x-ray unit

SPECIFICATIONS

The machine is intended for comprehensive radiological diagnostics of the total jaw region, the temporomandibular joints (TMJ) and paranasal sinuses.

Capable to make 39 Different examinations

Panoramic and cephalometric features.

Programmes:

12 PANORAMIC EXAMINATIONS

- HD Panoramic and QuickPan
- Full Panoramic and reduced Panoramic for children
- Orthogonal projection for the whole dentition, reduces the overlapping of the dental crowns
- Segments of panoramic imaging and dentition with optimized dedicated projections
- Bitewing exposures in 4 segments limited to the crowns, so as to highlight interproximal caries.

14 TMJ EXAMINATIONS (WITH OPEN OR CLOSED MOUTH)

- Latero-Lateral projections of both the TMJ’s (temporomandibular joints)
- Postero–Anterior projections of both the TMJ’s
- Lateral-Lateral projections from multiple angles (x3) of a single TMJ
- Postero-Anterior projection from multiple angles (x3 of single TMJ)

3 EXAMINATION OF MAXILLARY SINUSES

- Frontal or left/right side view of the maxillary sinuses

10 TELERADIOGRAPHIC EXAMINATIONS (CEPH)
• Latero-Lateral projections, selectable scan length
  Between 18 and 30 cm
• Latero-Lateral projection of reduced height for children, brief scan at moderate radiogenic dose
• Anterior–Posterior or Posterior Anterior projections
• Submento-vertex (SMV) projections, including water’s projections (occipitomental views) and reverse Towne projection
• Projection of the carpus

5.2. SELECTING THE EXAMINATION FROM THE CONTROL CONSOLE
5.2.1. 2D EXAMINATIONS AVAILABLE

Panoramic examinations (PAN):

<table>
<thead>
<tr>
<th>Preview</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-D</td>
<td>High-definition projection that shows the view of the entire dental arch and</td>
</tr>
<tr>
<td></td>
<td>Scanning time:</td>
<td>the TMJ (temporomandibular joints). Magnification 1.23</td>
</tr>
<tr>
<td></td>
<td>13 s.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHILD</td>
<td>Projection that shows the view of the entire dental arch and the TMJ</td>
</tr>
<tr>
<td></td>
<td>Scanning Time:</td>
<td>(temporomandibular joints); in the paediatric version it adapts to the</td>
</tr>
<tr>
<td></td>
<td>12.2 s.</td>
<td>morphology of the child and lasts 12.2 s. Magnification 1.23</td>
</tr>
<tr>
<td></td>
<td>RH HALF-PAN</td>
<td>Like HD, limited to the right-hand side only. Magnification 1.23</td>
</tr>
<tr>
<td></td>
<td>Scanning time:</td>
<td>7.1 s</td>
</tr>
<tr>
<td></td>
<td>LH HALF-PAN</td>
<td>Like HD, limited to the left-hand side only. Magnification 1.23</td>
</tr>
<tr>
<td></td>
<td>Scanning time:</td>
<td>7.1 s</td>
</tr>
<tr>
<td></td>
<td>QUICK</td>
<td>Quick projection that shows the view of the entire dental arch and the TMJ</td>
</tr>
<tr>
<td></td>
<td>Scanning time:</td>
<td>and the TMJ (temporomandibular joints) and lasts 6.3 s. Magnification 1.23</td>
</tr>
<tr>
<td></td>
<td>6.3 s.</td>
<td></td>
</tr>
</tbody>
</table>

Signature of tenderer ____________________________________________

Note: In case of discrepancy between unit price and total, the unit price shall prevail.
### Dentition examinations (DENT):

<table>
<thead>
<tr>
<th>Preview</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>BITEWING 12.9 s</td>
<td>Set of 4 optimised images for representation of the crowns of the entire dentition. Magnification 1.43</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>RH BITEWING 6.4 s</td>
<td>Set of 2 optimised images for representation of the crowns of the right dentition. Magnification 1.43</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>LH BITEWING 6.5 s</td>
<td>Set of 2 optimised images for representation of the crowns of the left dentition. Magnification 1.43</td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>DENTITION 7.3 s</td>
<td>Projection of the entire dental arch excluding the temporomandibular joints (TMJs) and with improved orthogonality to reduce crown overlapping. Magnification 1.23</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>FRONTAL 2.3 s</td>
<td>Projection of the front dentition only with enhanced focal trough to improve root exposure. Magnification 1.23</td>
</tr>
<tr>
<td><img src="image6.png" alt="Image" /></td>
<td>RH HALF-ARCH 6.6 s</td>
<td>Like DENTITION. Limited to the right half-arch only and with improved orthogonality to reduce crown overlapping. Magnification 1.23</td>
</tr>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td>LH HALF-ARCH 9 s</td>
<td>Like DENTITION. Limited to the left half-arch only and with improved orthogonality to reduce crown overlapping. Magnification 1.23</td>
</tr>
</tbody>
</table>

### Maxillary sinus examinations (SIN):

<table>
<thead>
<tr>
<th>Preview</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image8.png" alt="Image" /></td>
<td>MAXILLARIES 6.2 s</td>
<td>Linear projection of the cranium in posteroanterior view on the level of the maxillary sinuses. Magnification 1.24</td>
</tr>
<tr>
<td><img src="image9.png" alt="Image" /></td>
<td>LH MAXILLARIES 2.6 s</td>
<td>Linear projection of the cranium in lateral view on the level of the left maxillary sinuses only. Magnification 1.24</td>
</tr>
<tr>
<td><img src="image10.png" alt="Image" /></td>
<td>RH MAXILLARIES 2.6 s</td>
<td>Linear projection of the cranium in lateral view on the level of the right maxillary sinuses only. Magnification 1.24</td>
</tr>
</tbody>
</table>
### Temporomandibular joint examinations (TMJ):

<table>
<thead>
<tr>
<th>Preview</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Double R-L" /></td>
<td>DOUBLE R-L</td>
<td>Executes both the lateral examination (Magnification 1.30) and the frontal examination (Magnification 1.50) of both the left and the right joints; in total four images.</td>
</tr>
<tr>
<td><img src="image2" alt="Frontal R-L" /></td>
<td>FRONTAL R-L</td>
<td>Posteroanterior projection of both joints. Magnification 1.50</td>
</tr>
<tr>
<td><img src="image3" alt="Lateral R-L" /></td>
<td>LATERAL R-L</td>
<td>Lateral projection (along the major axis of the mandibular condyles) of both temporomandibular joints. Magnification 1.30</td>
</tr>
<tr>
<td><img src="image4" alt="Frontal R3" /></td>
<td>FRONTAL R3</td>
<td>Posteroanterior projection of the right joint only; executes three sections at a different angle to achieve better anatomic visibility. Magnification 1.50</td>
</tr>
<tr>
<td><img src="image5" alt="Frontal L3" /></td>
<td>FRONTAL L3</td>
<td>Posteroanterior projection of the left joint only; executes three sections at a different angle to achieve better anatomic visibility. Magnification 1.50</td>
</tr>
<tr>
<td><img src="image6" alt="Lateral R3" /></td>
<td>LATERAL R3</td>
<td>Lateral projection of the right joint only; executes three sections at a different angle to achieve better anatomic visibility. Magnification 1.30</td>
</tr>
<tr>
<td><img src="image7" alt="Lateral L3" /></td>
<td>LATERAL L3</td>
<td>Lateral projection of the left joint only; executes three sections at a different angle to achieve better anatomic visibility. Magnification 1.30</td>
</tr>
</tbody>
</table>

For each of the TMJ diagnostic programs, you can perform the same examination with the mouth closed, in rest conditions and with the mouth open.
UNIT FEATURES

- Optimized focal layer
- Relocatable PAN/CEPH detector
- Uniform enlargement of all projections
- Advanced kinematics (3 engines) : 2 translations 1 rotation
- Fast positioning, Face to Face 4 laser traces
- Lower radiogenic dose
- Intelligent Collimation
- Innovative ergonomic craniostat
- MRT (Morphology Recognition Technology)
- Rapid upgrade to 3D
- Pluggable into a tablet
- Touch Screen console
- Virtual console – PC I-PAD

The unit to offer an efficient dedicated detector for 2D diagnostics (PAN/CEPH), relocatable and releasable, fastened into a safety device, with the possibility of adding a second detector so as to carry
out cephalometric projections of the exams, bitewing x-rays and advanced views of the temporomandibular joint. A highly synchronized kinematics structured around a rotary motion and two simultaneous translatory movements, for purposes of a constant enlargement of all projections.

The optimized focal layer follows the morphology of the patient, for the sake of images always in focus and universe of high-definition details.

Intelligent Collimation

Virtual console

Stability and comfort:

7 support points for the sake of stable patient under all circumstances
Whit a seat for the chin, the adjustable self-locking forehead support and replaceable bite block, the positioning system has never been so simple and effective.

Patent
• Automatic exposure system with actual exposure display.
• Automatic layer position-setting by the machine.
• Increase voltage (kV) automatically at certain regions to prevent prolonged exposure.
• Easy selection of program.
• Chin support, nasal support and forehead support.
• Control panel which easy cleaning and infection control.
• Easy to clean surfaces for infection control.
• Protection sheet bite stick / bite block.
• Optimum image of varying jaw shapes.
• Fully motorised patient positioning
• Automatic compensation for cervical vertebrae shadow
• Wheelchair patient friendly

Fully Irys Software included

• Evolved image filters
• PiE (Panoramic image simulation
• Compatibility with other software
• Data sharing with all 2D images
• Preloaded implant Libraries
• Viewer
• Dicom 3.0-Twain –VDDS –LAN ETHERNET
• Full connection
TECHNICAL CHARACTERISTICS
<table>
<thead>
<tr>
<th>2D IMAGES</th>
<th>PANORAMIC</th>
<th>CEPHALOMETRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector technology</td>
<td>CCD (CSI)</td>
<td></td>
</tr>
<tr>
<td>Protection from direct X-ray exposure</td>
<td>FOP (Fibre Optics Plate)</td>
<td></td>
</tr>
<tr>
<td>Pixel size</td>
<td>48 μm</td>
<td></td>
</tr>
<tr>
<td>Dynamic range</td>
<td>14 bit (16383 Grey levels)</td>
<td></td>
</tr>
<tr>
<td>Detector resolution</td>
<td>10.4 lp/mm</td>
<td></td>
</tr>
<tr>
<td>Signal To Noise ratio</td>
<td>minimum 74 dB – typical 86 dB</td>
<td></td>
</tr>
<tr>
<td>Detector height</td>
<td>146 mm</td>
<td>220 mm</td>
</tr>
<tr>
<td>Image pixel matrix</td>
<td>max: 1528x2797</td>
<td>max: 2291x3125</td>
</tr>
<tr>
<td>Maximum size of image file</td>
<td>8 MB</td>
<td>14 MB</td>
</tr>
<tr>
<td>X-ray exposure time</td>
<td>7.5 s - 13 s</td>
<td>3.4 s</td>
</tr>
<tr>
<td>Typical effective dose (ICRP 103)</td>
<td>4.3 - 6.7 μSv</td>
<td>1.0 μSv</td>
</tr>
<tr>
<td>Image resolution</td>
<td>from 5 to 7 lp/mm</td>
<td></td>
</tr>
<tr>
<td>Image format</td>
<td>TIFF 16 bit, DICOM</td>
<td></td>
</tr>
<tr>
<td>Patient Alignment</td>
<td>Servo-assisted: 4 laser guides</td>
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</table>

<table>
<thead>
<tr>
<th>X-RAY GENERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator type</td>
</tr>
<tr>
<td>X-ray emission type</td>
</tr>
<tr>
<td>Anode voltage</td>
</tr>
<tr>
<td>Anodic current</td>
</tr>
<tr>
<td>Exposure time range</td>
</tr>
<tr>
<td>Focal Spot dimension</td>
</tr>
<tr>
<td>Exposure Control Method</td>
</tr>
<tr>
<td>Compensation of Spine absorption</td>
</tr>
<tr>
<td>mA and kV configuration</td>
</tr>
<tr>
<td>Duty cycle</td>
</tr>
<tr>
<td>Inherent filtration</td>
</tr>
<tr>
<td>Integrated X-ray shielding behind receptor</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>Minimum required operation footprint (L x P)</td>
</tr>
<tr>
<td>Packed dimensions (H x L x P)</td>
</tr>
<tr>
<td>2 speed motorized column, adjustable height</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Comments</td>
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<thead>
<tr>
<th><strong>POWER SUPPLY SPECIFICATION</strong></th>
<th><strong>AUTOMATIC ADAPTATION FOR VOLTAGE AND FREQUENCY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>115 - 240 Vac, ± 10% single phase</td>
</tr>
<tr>
<td>Maximum current temporary peak absorption</td>
<td>15A a 115V, 7A a 240V</td>
</tr>
<tr>
<td>Current absorption in standby mode</td>
<td>maximum 1A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CONNECTIVITY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Connections</td>
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<tr>
<td>Software</td>
</tr>
<tr>
<td>Supported protocols</td>
</tr>
<tr>
<td>DICOM nodes</td>
</tr>
</tbody>
</table>
Certifications
1.4. STANDARDS AND REGULATIONS

The system has been designed to meet the following standards:
- Directive 93/42/EEC and subsequent amendments
  (Directive 2007/47/EC) - Medical Device Directive;

European Technical Standards:
IEC 60601-1:2007 (3 Ed.)
IEC 60601-1-2:2007 (3 Ed.)
IEC 60601-1-3:2008
IEC 60601-2-63:2012 (3 Ed.)
IEC 60601-1-6:2010
IEC 62366:2007 (1 Ed.)
IEC 60825-1:1993

The CE marking certifies compliance of the product as described herein with Medical Device Directive 93/42/EEC and subsequent amendments.
Warranty: Minimum of 1 year. 
Vendor must submit evidence of being a member of the Kenya Radiation Protection Board for at least 1 year. 
Training and Installation should be included. 
Must have manufacturer authorization letter

SECTION VII - PRICE SCHEDULE FOR DENTAL X-RAY
Name of tenderer _______ Tender Number _______ Page _______ of _______

<p>| | | | | | | |</p>
<table>
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</tr>
<tr>
<td>Item</td>
<td>Description</td>
<td>Country</td>
<td>Quantity</td>
<td>Unit price</td>
<td>Total Price</td>
<td>Unit price</td>
</tr>
<tr>
<td>of origin</td>
<td>EXW per item (cols. 4x5)</td>
<td>of other incidental services payable</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>-------------------------</td>
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</tbody>
</table>

Signature of tenderer __________________________

Note: In case of discrepancy between unit price and total, the unit price shall prevail.

**LAPAROSCOPE STACK COMPLETE WITH LIGHTSOURCE AND ACCESSORIES**

3CCD HD Camera System

1 Camera Control Unit

1.1 The resolution should be no less than 3 x 752 x 582 PAL
1.2 Real 1080p Full HD Resolution
1.3 16:9 widescreen format acquisition
1.4 Digital zoom up to 2.5x
1.5 The CCU must have Freeze & mirror function
1.6 Digital processing 3 x 19 bits
1.7 Automatic and manual adjustment of colour
1.8 The sensitivity should not be less than 0.18 lux
1.9 The Signal / Noise ratio should not be more than 60 dB
1.10 The Electronic Shutter should not be slower than 1/100 000sec
1.11 The Auto exposure should be variable
1.12 White Balance should be performed automatically by the push of a button
1.13 The CCU should have Video enhancement
1.14 The CCU should be fitted with a 3.6 meter power cable
1.15 The CCU should have the following Video Outputs:
1 x RGB-S (HD15) / 1 x S-Video (Y/C) / 1 x DVI-D / 1 x Composite (BNC)
1.16 HD-SDI and DVI-D digital outputs
1.17 The unit should be the following size 300 x 300 x 66mm
1.18 The unit should not weigh more than 2.5kg
1.19 The unit should use a Main voltage of 115-230 VAC
1.20 The unit should have a Power consumption of 45 VA
1.21 The unit should use a Frequency 50 - 60 Hz
1.22 The unit should comply with the following standards:
   Protection Class 1, Type BF, IEC601.1, IEC601.2

2 Camera Head
2.1 C-Mount camera head
2.2 The camera head should have 3 programmable buttons

3 Light Source
3.1 The Light source should use a Xenon lamp
3.2 Lamp geometry used should be Xenon lamp with focusing mirror
3.3 The Light Source must have a stand by function to protect the lamp for longer life
3.4 Light Source must have mechanical iris for constant colour temperature
3.5 The Colour temperature should be 6200° Kelvin
3.6 The Xenon Lamp lifetime should be 500 hours (Average value: 30 min ON / 15 min. OFF)
3.7 The Light cable connection should be able to accommodate all the leading
   Endoscopic Light guide adapters
3.8 The unit should use a Main voltage of 100-230 VAC
3.9 The unit should have a Power consumption of 260 VA
3.10 The unit should have Frequency 50 - 60 Hz
3.11 The unit should be the following size 300 x 311 x 125mm
3.12 The unit should not weigh more than 5.0kg
3.13 The unit should comply with the following standards:
Protection Class 1, Type BF, IEC601.1, IEC601.2

3.14 The Light Source should have a temperature range of +10°C to +40°C in function

3.15 The Light Source should have a Max relative air humidity of 85% - in function

3.16 The Light Source should have a temperature range of -20°C to +45°C in storage

4 **Insufflator**

4.1 The unit should use a Main voltage of 100-240 VAC

4.2 The unit should have a Power consumption of 40VA

4.3 The unit should have Frequency 50 - 60 Hz

4.4 The unit should be the following size 300 x 340 x 145mm

4.5 The unit should not weigh more than 5.0kg

4.6 The Insufflator must have a Max gas flow of 20L/ 30L/ 45L

4.7 The Pressure must be selected from 0 - 24mmHg (accuracy of 1mmHg)

4.8 The Insufflator must be able to pre-heat the insufflation gas

The Insufflator must be fitted with an external desufflation valve to avoid cross-contamination

4.9 Insufflation must be pressure controlled Large display showing all the important measures

4.10 Insufflation must be pressure controlled Large display showing all the important measures

4.11 Insufflation must be pressure controlled Large display showing all the important measures

4.12 Insufflation must be pressure controlled Large display showing all the important measures

4.13 Insufflation must be pressure controlled Large display showing all the important measures

4.14 The Insufflator should Max relative air humidity +10°C to +40°C in function

4.15 The Insufflator should have a temperature range of -20°C to +45°C in storage

The unit should comply with the following standards:

4.16 Protection Class 1, Type BF, IEC601.1, IEC601.2

5 **26” Full HD Monitor**

5.1 The Picture Size must be (Diagonal) 686 mm (27 inches)

The Effective Picture Size should be (H x V) 597.9 x 336.3 mm (23 5/8 x 14 1/2 inches)

5.2 The Pixel pitch must be 0.3114 x 0.3114 mm

5.3 The Resolution must be (H x V) 1920 x 1080 pixels (Full HD)

5.4 The Aspect ratio must be 16:9

5.5 The Monitor Pixel Efficiency must be 0.9999

5.6 The Backlight must be LED

5.7 The Panel Technology must be LCD with IPS

5.8 The Luminance (Panel Specification) must be 1000 cd/m² (typical)

5.9 The Contrast Ratio must be 1000 : 1

5.10 The monitor must have Colours Approx.16.7 million colours

5.11 The monitor must have Colours Approx.16.7 million colours

5.12 Input: Composite, Y/C, RGB, DVI-D, SDI, HDI5, External Sync, Serial Remote, DC

5.13 Output: DVI-D, SDI, DC 5V

The monitor must use the following power requirements : DC Input: 24 V, 6.25 A
5.14 AC adaptor AC IN: 100 V - 240 V, 50/60 Hz, 2.5 A - 1 A
5.15 The monitor must have the following Power Consumption Approx. 102 W (max.)

The monitor must operate within the following temperature operating
5.16 Temperature 0°C to 35°C (32°F to 95°F) (Recommended: 20°C to 30°C (68°F to 86°F)
5.17 The unit should be the following size 650 x 474 x 302mm
5.18 The unit should not weigh more than 8.5kg
The unit should comply with the following standards:
5.19 Protection Class 1, Type BF, IEC601.1, IEC601.2

6 Equipment Trolley
6.1 The unit should have the following dimensions: 142.8 x 71.4 x 62.5 cm
6.2 The trolley must be able to carry a 50kg load
6.3 The trolley must have 4 shelves
6.4 The trolley must have 1 deposit console 60 x 49 cm adjustable, with handle
6.5 The trolley must have 3 deposit consoles 60 x 49 cm, adjustable
6.6 The trolley must have 1 drawer unit with storage tray 60 x 49 cm
6.7 The trolley must have 4 wheels, 2 with brakes The Trolley must have holder for gas bottles (5L)

Warranty: Minimum of 1 year
Must have manufacturer authorization letter

6.8

SECTION VII - LAPAROSCOPE STACK COMPLETE WITH LIGHTSOURCE AND ACCESSORIES

Name of tenderer _______ Tender Number _______ Page _______ of _________

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Description</td>
<td>Country of origin</td>
<td>Quantity</td>
<td>Unit price</td>
<td>Total Price</td>
<td>Unit price of other incidental services payable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EXW per item (cols. 4x5)</td>
<td>payable</td>
</tr>
</tbody>
</table>
Signature of tenderer ____________________________________________

*Note:* In case of discrepancy between unit price and total, the unit price shall prevail.

**SECTION VIII - STANDARD FORMS**

**Notes on the sample Forms**

1. **Form of Tender** - The form of tender must be completed by the tenderer and submitted with the tender documents. It must also be duly signed by duly authorized representatives of the tenderer.

2. **Confidential Business Questionnaire Form** - This form must be completed by the tenderer and submitted with the tender documents.

3. **Tender Security Form** - When required by the tender documents the tender shall provide the tender security either in the form included herein or in another format acceptable to the procuring entity.
4. **Contract Form** - The Contract Form shall not be completed by the tenderer at the time of submitting the tender. The Contract Form shall be completed after contract award and should incorporate the accepted contract price.

5. **Performance Security Form** - The performance security form should not be completed by the tenderers at the time of tender preparation. Only the successful tenderer will be required to provide performance security in the form provided herein or in another form acceptable to the procuring entity.

6. **Bank Guarantee for Advance Payment Form** - When Advance payment is requested for by the successful bidder and agreed by the procuring entity, this form must be completed fully and duly signed by the authorized officials of the bank.

7. **Manufacturers Authorization Form** - When required by the tender documents this form must be completed and submitted with the tender documents. This form will be completed by the manufacturer of the goods where the tenderer is an agent.

8.1 **FORM OF TENDER**

Date [insert date]
Tender No. [insert tender number]

To: [name and address of procuring entity]

Gentlemen and/or Ladies:

1. Having examined the tender documents including Addenda Nos. [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply deliver, install and commission [insert equipment description] in conformity with the
said tender documents for the sum of .......................................................... (total tender amount in words and figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

2. We undertake, if our Tender is accepted, to deliver install and commission the equipment in accordance with the delivery schedule specified in the Schedule of Requirements.

3. If our Tender is accepted, we will obtain the guarantee of a bank in a sum of equivalent to ____________ percent of the Contract Price for the due performance of the Contract, in the form prescribed by .................. (Procuring entity).

4. We agree to abid by this Tender for a period of …… [number] days from the date fixed for tender opening of the Instructions to tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. This Tender, together with your written acceptance thereof and your notification of award, shall constitute a Contract, between us. Subject to signing of the Contract by the parties.

6. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this ____________ day of _______ 20 ________

__________________________________________________________

[signature] [in the capacity of]

Duly authorized to sign tender for an on behalf of ____________________________

8.2 CONFIDENTIAL BUSINESS QUESTIONNAIRE FORM

You are requested to give the particulars indicated in Part 1 and either Part 2(a), 2(b) or 2(c) whichever applied to your type of business

You are advised that it is a serious offence to give false information on this form
**Part 1 – General:**

<table>
<thead>
<tr>
<th>Business Name</th>
<th>Location of business premises</th>
<th>Plot No.</th>
<th>Street/Road</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Postal Address</th>
<th>Tel No.</th>
<th>Fax</th>
<th>E mail</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nature of Business</th>
<th>Registration Certificate No.</th>
<th>Maximum value of business which you can handle at any one time – Kshs.</th>
<th>Name of your bankers</th>
<th>Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Part 2 (a) – Sole Proprietor**

- Your name in full
- Age
- Nationality
- Country of origin

- Citizenship details

**Part 2 (b) Partnership**

<table>
<thead>
<tr>
<th>Name</th>
<th>Nationality</th>
<th>Citizenship Details</th>
<th>Shares</th>
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<tbody>
<tr>
<td>1.</td>
<td></td>
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<td>3.</td>
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<tr>
<td>4.</td>
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</tbody>
</table>

**Part 2 (c) – Registered Company**

- Private or Public

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<th>Name</th>
<th>Nationality</th>
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<th>Shares</th>
</tr>
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<tbody>
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<td>4.</td>
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<tr>
<td>5.</td>
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</tbody>
</table>

State the nominal and issued capital of company-

- Nominal Kshs.
- Issued Kshs.

Given details of all directors as follows

<table>
<thead>
<tr>
<th>Name</th>
<th>Nationality</th>
<th>Citizenship Details</th>
<th>Shares</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<tr>
<td>4.</td>
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<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
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</tr>
</tbody>
</table>
Date ……………………………………………….. Signature of Candidate

☐ If a Kenya Citizen, indicate under “Citizenship Details” whether by Birth, Naturalization or registration.

8.3 TENDER SECURITY FORM

Whereas …………………………………………………………… [name of the tenderer] (hereinafter called “the tenderer”) has submitted its tender dated ………….. [date of submission of tender] for the supply, installation and commissioning of ……………………. [name and/or description of the equipment] (hereinafter called “the Tender”)

………………………………………………………………………… KNOW ALL PEOPLE by these presents that WE ……………………… of ……………………… having our registered office at …………………… (hereinafter called “the Bank”), are bound unto ……………….. [name of Procuring entity] (hereinafter called “the Procuring entity”) in the sum of …………………….. for which payment well and truly to be made to the said Procuring entity, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ………………… day of ………………… 20 ….

THE CONDITIONS of this obligation are:-

1. If the tenderer withdraws its Tender during the period of tender validity specified by the tenderer on the Tender Form; or

2. If the tenderer, having been notified of the acceptance of its Tender by the Procuring entity during the period of tender validity:
   (a) fails or refuses to execute the Contract Form, if required; or
   (b) fails or refuses to furnish the performance security in accordance with the Instructions to tenderers;

We undertake to pay to the Procuring entity up to the above amount upon receipt of its first written demand, without the Procuring entity having to substantiate its demand, provided that in its demand the Procuring entity will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.
This tender guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the above date.

[signature of the bank]______________________

(Amend accordingly if provided by Insurance Company)

8.4 CONTRACT FORM

THIS AGREEMENT made the __________ day of __________ 20 __________

between ……………… [name of Procurement entity) of ……….. [country of Procurement entity] (hereinafter called “the Procuring entity) of the one part and

……………………… [name of tenderer] of ……….. [city and country of tenderer] (hereinafter called “the tenderer”) of the other part;

WHEREAS the Procuring entity invited tenders for certain goods ] and has accepted a tender by the tenderer for the supply of those goods in the sum of ……………………………… [contract price in words and figures] (hereinafter called “the Contract Price).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to:

2. The following documents shall be deemed to form and be read and construed as part of this Agreement viz:
   (a) the Tender Form and the Price Schedule submitted by the tenderer
   (b) the Schedule of Requirements
   (c ) the Technical Specifications
   (d) the General Conditions of Contract
   (e) the Special Conditions of contract; and
   (f) the Procuring entity’s Notification of Award

3. In consideration of the payments to be made by the Procuring entity to the tenderer as hereinafter mentioned, the tender hereby covenants with the Procuring entity to provide the goods and to remedy defects therein in conformity in all respects with the provisions of the Contract

4. The Procuring entity hereby covenants to pay the tenderer in consideration of the provisions of the goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the contract.
IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by ______ the ____________ (for the Procuring entity)

Signed, sealed, delivered by ______ the ______________ (for the tenderer in the presence of ____________________

(Amend accordingly if provided by Insurance Company)

8.5 PERFORMANCE SECURITY FORM

To ………………………………………….
[name of Procuring entity]

WHEREAS …………………………………… [name of tenderer] (hereinafter called “the tenderer”) has undertaken, in pursuance of Contract No. ________________ [reference number of the contract] dated ______ 20 __________ to supply ………………………………………………………………………………………………… [description of goods] (hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the tenderer shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Tenderer’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the tenderer a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the tenderer, up to a total of ……………………………… [amount of the guarantee in words and figure] and we undertake to pay you, upon your first written demand declaring the tenderer to be in default under the Contract and without cavil or argument, any sum or sums within the limits of …………………….. [amount of guarantee] as aforesaid, without you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _________ day of _________ 20 _______
8.6 BANK GUARANTEE FOR ADVANCE PAYMENT FORM

To ........................................
[name of Procuring entity]

[name of tender] ......................

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends the General Conditions of Contract to provide for advance payment, ......................................................... [name and address of tenderer](hereinafter called “the tenderer”) shall deposit with the Procuring entity a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of ...... .................... [amount of guarantee in figures and words].

We, the ........................................ [bank or financial institutions], as instructed by the tenderer, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the Procuring entity on its first demand without whatsoever right of objection on our part and without its first claim to the tenderer, in the amount not exceeding ....................... [amount of guarantee in figures and words]
We further agree that no change or addition to or other modification of the terms of the Contract to be performed there-under or of any of the Contract documents which may be made between the Procuring entity and the tenderer, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid in full effect from the date of the advance payment received by the tenderer under the Contract until …………. [date].

Yours truly,

Signature and seal of the Guarantors

________________________________________________________________________

[name of bank or financial institution]

________________________________________________________________________

[address]

________________________________________________________________________

[date]

8.7 MANUFACTURER’S AUTHORIZATION FORM

To [name of the Procuring entity] …………………

WHEREAS …………………………………………………………[name of the manufacturer] who are established and reputable manufacturers of ………………… [name and/or description of the goods] having factories at ………………………………… [address of factory] do hereby authorize …………………………… [name and address of Agent] to submit a tender, and
subsequently negotiate and sign the Contract with you against tender No. ………………… [reference of the Tender] for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Tenders.

________________________________________________________
[signature for and on behalf of manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent.

8.8 LETTER OF NOTIFICATION OF AWARD

Address of Procuring Entity
________________________________________________________

To:
This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

1. Please acknowledge receipt of this letter of notification signifying your acceptance.

2. The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.

3. You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

(FULL PARTICULARS)

SIGNED FOR ACCOUNTING OFFICER

8.9 FORM RB 1

REPUBLIC OF KENYA
PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

APPLICATION NO...............OF...........20........
BETWEEN
…………………………………………..APPLICANT

AND
……………………………………RESPONDENT (Procuring Entity)

Request for review of the decision of the…………… (Name of the Procuring Entity) of ………….dated the…day of ………..20……….in the matter of Tender No……………of …………..20…

REQUEST FOR REVIEW

I/We……………………………,the above named Applicant(s), of address: Physical address…………….Fax No……Tel. No……..Email ……………, hereby request the Public Procurement Administrative Review Board to review the whole/part of the above mentioned decision on the following grounds , namely:-
1.  
2. etc.

By this memorandum, the Applicant requests the Board for an order/orders that: -
1.  
2. etc

SIGNED ……………….(Applicant)

Dated on…………….day of ……………/…20…

FOR OFFICIAL USE ONLY

Lodged with the Secretary Public Procurement Administrative Review Board on ………….. day of …………..20………..

SIGNED
Board Secretary