

Tender Reference No. : EQ-TD-201901

11 January 2019

CUHK MEDICAL CENTRE LIMITED
INVITATION TO TENDER
Supply and Installation of Radiographic/Fluoroscopic System for Endoscopy Centre
of the CUHK Medical Centre Limited
(Tender No.: EQ-TD-201901)

The CUHK Medical Centre Limited (CUMC) intends to invite tenderers to submit a proposal for Supply and Installation of Radiographic/Fluoroscopic System for Endoscopy Centre for the CUMC.

If your company is interested, please submit a full proposal with all required submissions mentioned in the Tender documents by **12:00 noon on 22 February 2019**.

Late submission and submissions not submitted in accordance with the stipulated requirements will not be considered. Please note that this invitation for proposal is non-committal on our part and your proposal would be provided to the CUHK Medical Centre Limited at no cost.

Yours faithfully,



Ivan KO
Manager, Supplies & Procurement
CUHK Medical Centre Limited

Enclosure

CUHK Medical Centre Limited

Tender Invitation

on

**Supply and Installation of Radiographic/
Fluoroscopic System for Endoscopy Centre**

Tender Reference: EQ-TD-201901

Tender Issue Date: 11 January 2019

Tender Closing Date and Time: 12:00 noon on 22 February 2019 (HK Time)

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Part I
INTERPRETATION

In this Tender documents, the following words and expressions shall have the following meanings unless otherwise stated:

“Contract”	means the contract made between the CUMC and the Successful Tenderer for the supply of Goods;
“Successful Tenderer”	means the Tenderer who Tender is accepted by the CUMC;
“Goods”	means the articles and/or materials referred to in the Part VII attached hereto (“the Schedule”);
“CUMC”	means the CUHK Medical Centre Limited;
“CUMC Representative”	means the acting for and on behalf of the CUMC or any duly authorized officer for the time being performing his/her duties;
“Tender”	means the Tender submitted by the Tenderer for the supply of Goods;
“Tenderer”	means the person or persons and/or the firm or the company whose details are set out in Part IV.

PART II
TERMS OF TENDER

1 Invitation to Tender

- 1.1 Tenders are invited for the supply of Goods and/or services subject to and in accordance with the requirements/specifications, Terms of Tender and Conditions of Contract.
- 1.2 The CUMC reserves the right in its absolute discretion to cancel this Tender at any time.
- 1.3 The CUMC will not be responsible for or liable to any Tenderer for any cost or expense incurred in relation to (i) the preparation or submission of the Tender; or (ii) any communication between the Tenderer and the CUMC in relation to the Tender, under any circumstances (including the cancellation of this Tender by the CUMC).
- 1.4 The Tenderer acknowledges and agrees that the CUMC is not responsible for the accuracy of any information provided in this Tender, and the Tenderer has made its own independent evaluation of the business potential of the Tender Subject Matter and it has submitted its Tender submission based solely on the result of such independent evaluation.
- 1.5 The Tenderer is required to fill in the information indicated in “Offer To Be Bound” (Part IV).

2 Tender

- 2.1 This Tender relates to the supply of all (or any part) of the Goods and/or services whose details and specifications are set out in the Tender Brief.
- 2.2 Tenderers must note that their offers in their Tender Submissions must comply with the requirements of this Tender in every respect. Tender Submissions which do not comply with requirements shall not be considered.
- 2.3 The Tender documents are to be completed in English or Chinese (except where certain Supporting Documents are expressly required to be in English) and in permanent ink or typescript and submitted in the manner stipulated. Tenderers are required to stamp and initial next to any corrections made.
- 2.4 The Schedule issued with this Tender must not be altered by the Tenderer. Any modification of the Schedule considered necessary by the Tenderer should be the subject of a separate letter accompanying the Tender. Figures should not be altered or erased; any alteration should be effected by striking through the incorrect figures and inserting the correct figures in ink above the original figures. All such amendments should be initialed by the Tenderer in ink.
- 2.5 Tender is to be completed in permanent ink or typescript; Tender not so completed may not be considered.
- 2.6 Tender may not be considered if complete information is not given with the Tender or if any particulars and data asked for in the Schedule are not furnished in full. Where appropriate, descriptive and technical literature should be submitted with the Tender. The CUMC Representative may request clarification of particulars and data supplied, or additional particulars and data, and if so the Tenderer shall have 5 working days or such further period as the CUMC Representative may specify to submit such further

information. Failure to do so within the time period shall result in the Tender being considered incomplete.

- 2.7 The CUMC Representative is not bound to accept the lowest or any Tender and reserves the right to accept all or any part of any Tender at any time within the Tender Validity Period.

3 Tender Validity Period

Tender shall, unless otherwise indicated by the Tenderer, remain open for **120 days** after the Tender Closing Date and the Tenderer agrees not to withdraw the offer constituted by such Tender for this period (“Tender Validity Period”).

4 Tender Prices

- 4.1 The prices to be quoted by the Tenderer are to be in Hong Kong currency and must only be shown on the Schedule. Such prices shall be net prices allowing for all trade and cash discounts and inclusive of all cost and expense to be incurred by the Tenderer in the performance of the Contract. Prices must remain valid for the duration of the Contract and for the supply of all of the Goods and/or services.
- 4.2 Prices quoted in other currencies will be considered and if accepted, payment will be made in the quoted currency. All bank charges incurred by the Successful Tenderer will be borne by the Successful Tenderer.
- 4.3 For price comparison purposes, any prompt payment discount offered by the Tenderer will not be taken into consideration in assessment of Tender Prices.
- 4.4 Tenderer is reminded to ensure the accuracy of their Tender prices quoted in the Price Proposal. Under no circumstance will the CUMC accept any request for price adjustment on grounds that a mistake has been made in the Tender prices quoted by a Tenderer.
- 4.5 The CUMC reserves the right to negotiate with any Tenderer on the terms of the offer.

5 Acceptance and Award of Contract

The Successful Tenderer will receive a letter of acceptance from the CUMC as an indication of acceptance of offer submitted by the Tenderer. The letter of acceptance in accordance with terms and conditions of the Tender and submitted proposal of the Tenderer shall constitute a binding contract between the CUMC and the Successful Tenderer. Tenderer who do not receive any notification within 120 days from the Tender Closing Date may assume that their Tender has not been accepted.

6 Presentation

Tenderer may be invited to provide a brief presentation.

7 Product Information

Tenderer shall submit with the Tender a sufficient and valid product information, e.g. catalogues, technical specifications, brochures, etc. Additional copies may be requested from the CUMC to facilitate easy reference and ordering.

8 New Information Relevant to Qualified Status

Tenderer should inform the CUMC in writing immediately of any circumstance or information which may affect their qualification to tender in this Tender. The CUMC reserves the right to review their qualified status in the light of any new information relevant to their qualification.

9 Cancellation of Tender

Without prejudice to the CUMC's right to cancel the Tender, where there are changes of requirements after the Tender Closing Date, for operational or any other reasons, the CUMC is not bound to accept any conforming Tender and reserves the right to cancel the Tender.

10 Destruction of Unsuccessful Tender

- 10.1 The CUMC will return the unsuccessful Tender submissions upon 120 days of Tender closing. The unsuccessful tenderer(s) should contact the CUMC to collect Tender submission. If the Tenderer fails to collect the Tender submissions within 10 days after the 120 days of Tender closing, the CUMC will dispose the Tender document without notifying the Tenderer.
- 10.2 Where a Tender is cancelled, all Tender submissions under that Tender can be destroyed any time after cancellation.

11 Microsoft Windows Support

Tenderer has the responsibility to plan and take appropriate actions on the Goods or system to safeguard against the risks of Windows desktop Operating System obsolescence, including to upgrade the computers to a supported Windows desktop Operating System version to ensure the continued support and avoid security risks of the Goods or system provided to the CUMC.

12 Personal Data

- 12.1 Tenderer's Personal Data may be requested for purposes related to evaluation of offer. When Personal Data is provided, please make sure that the data is accurate and complete. If Tenderer fails to provide with the information required or if the information provided is inaccurate or incomplete, the evaluation of the Tenderer's offer will be affected.

- 12.2 Personal Data may be made available to:
- a. The CUMC Representative.
 - b. Any other relevant parties who require it for matters related to evaluation of Tenderer's offer.
- 12.3 The CUMC Representative will only use, disclose or transfer the Tenderer's Personal Data provided:
- a. For the purposes relating to evaluation of offer or directly related purposes; or
 - b. Where permitted by law.
- 12.4 The CUMC Representative will obtain the Tenderer's consent before using his Personal Data for any other purposes.

13 Commitment to Environmentally Responsible Purchasing

- 13.1 The CUMC is sensitive to the environmental impact of purchasing decisions and takes account of legitimate environmental concerns while continuing to achieve best value for money in its purchasing functions.
- 13.2 The CUMC identifies products which present environmental concerns and addresses these concerns in the approval of the Tender specifications and in the Tender evaluation process.

14 Environmental Friendly Measure

The following environment friendly measures are recommended in the preparation of the Tender documents:

- 14.1 All documents should preferably be printed on both sides and on recycled paper. Papers exceeding 80 gsm are not recommended.
- 14.2 Excessive use of plastic laminates, glossy covers or double covers should be avoided as far as possible. Use of recyclable non-glossy art board paper as document covers is recommended.
- 14.3 Single line spacing should be used and excessive white space around the borders and in between the paragraphs should be avoided.

15 Consent to Disclosure

The CUMC shall have the right to disclose whenever it considers appropriate, or upon request (verbal or written) by any third party (including unsuccessful tenderer(s)) information of the Contract, such as the name and address of the Successful Tenderer, product description/brand/model/country of origin (if applicable), description of the relevant services (if applicable) and the value of the Contract, without reference to or consent from the Successful Tenderer. Unsuccessful tenderer may also enquire as to the reason for the rejection of their Tender Submissions.

16 Offering Gratuities

Tenderer shall not, and shall assure that their employees, agents and sub-contractors shall not, offer, solicit or accept an advantage as defined in the Prevention of Bribery Ordinance (Cap. 201 of the laws of Hong Kong) in connection with this Tender.

17 Tender Submission

17.1 The documents attached herewith should only be used for the submission of a tender in response to this invitation. The “Submission of Tender” should be completed by Tenderer with signature and company chop. The submission may be accompanied by documents containing additional explanations, amplifications or specifications, which should be stapled securely to the form.

17.2 This tender shall be conducted in a two-envelope bidding process. **Technical Proposal and Price Proposal should be submitted separately.**

17.3 One set of original, three sets of duplicate document and one soft copy in CD-ROM/USB. Both envelopes for Technical and Price Proposal should clearly state the subject of this tender and tender reference number. In the event of conflict between the version of hardcopy and softcopy, the original hardcopy version shall prevail.

17.4 The proposal (and any accompanying document) must be placed in a sealed plain envelope.

Address: CUHK Medical Centre Limited Tender Board
Unit 2001-2005, 20/F,
Delta House, 3 On Yiu Street
Shek Mun, New Territories
Hong Kong

17.5 The tender, properly completed and enveloped, must be placed in Tender Box by **12:00 noon on 22 February 2019 (HK Time)**. The office hours of CUMC are 9:00 am to 12:30 pm and 2:30 pm to 5:00 pm, Monday to Friday (except public holiday). **Late Tender will not be considered.**

17.6 The Tender Closing Time and Tender Closing Date will be extended to 12:00 noon the next working day in Hong Kong (i.e. any day from Monday to Friday which is not a public holiday) under the following situations:

- a. A black rainstorm signal or tropical cyclone warning signal No. 8 or above issued by the Hong Kong Observatory is still in force between 9:00 am and 12:00 noon on the Tender Closing Date; or
- b. A black rainstorm signal or tropical cyclone warning signal No. 8 or above is announced to be hoisted shortly by the Hong Kong Observatory between 9:00 am and 12:00 noon on the Tender Closing Date.

18 Tenderer's Enquiries

18.1 Any enquiries relating to the tender must be made before **2:30 p.m. on 15 February 2019 (HK Time)** in written by email to procurement@cuhkmc.hk.

18.2 The Questions with the answers will be posted on the website of CUHK Medical Centre (www.cuhkmc.hk) before Tender Closing Date.

PART III
CONDITIONS OF CONTRACT

1 Assignment

The Successful Tenderer shall not, without the written consent of the CUMC Representative, assign or otherwise transfer or subcontract this Contract or any part share or interest therein, and the performance of this Contract by the Successful Tenderer shall be deemed to be personal to him.

2 Goods, Specifications and Proof Notes

- 2.1 The Goods supplied under this Contract shall be of merchantable quality, fit for the purpose for which Goods of that kind are commonly bought, and comply with the specification as described in the Schedule and any technical literature supplied by the Successful Tenderer with his Tender. If the Goods are not fit for the purpose or of merchantable quality or fail to comply with the specification, the CUMC Representative may by notice in writing at any time and from time to time (i) reject all or part of the Goods delivered hereunder, or (ii) require the Successful Tenderer to repair or replace all or part of the Goods delivered hereunder or (iii) terminate the Contract forthwith.
- 2.2 Any drawings and information reasonably required for the Successful Tenderer's guidance in the execution of this Contract shall be furnished to him free of charge. Drawing which are furnished shall be returned on completion of the Contract, if required.
- 2.3 The Successful Tenderer, if required, shall furnish the CUMC Representative with a proof note or a certificate showing that the Goods have been subjected to the normal tests for such Goods or such tests as the CUMC Representative may reasonably require.

3 Delivery and Installation Requirement

- 3.1 The Successful Tenderer shall, supply and deliver at his own expenses the Goods in accordance with the delivery conditions specified in the letter of acceptance and/or purchase order and to the destination named in such order, the quantities of Goods therein specified within the time specified in such order. Time shall be deemed to be the essence of the Contract.
- 3.2 The Successful Tenderer is advised, prior to the submission of Tender, to acquaint themselves with the condition of the installation site, Goods delivery route and site boundary etc.
- 3.3 The delivery and installation schedules are mentioned in the Tender brief. The schedule may change according to the building progress. The Successful Tenderer shall liaise and confirm with the CUMC representative regarding the exact delivery/installation date. A regular progress report on the installation process shall also be submitted during the course of installation.
- 3.4 The Successful Tenderer shall confirm that appropriate means of transportation can be arranged by themselves for the delivery of their Goods to the installation site and that they shall liaise/confirm with the CUMC and responsible for ensuring the route of

delivery to the installation site are of sufficient width, height and floor loading etc. for the passage of their Goods.

- 3.5 No temporary storage space for any Goods shall be available within the construction site before the completion date. If any Goods arrives earlier than the agreed delivery schedule, the Successful Tenderer shall be responsible for the storage of the Goods outside the construction site. No claim by the Successful tenderer for extra payment/charges shall be entertained for off-site storage provisions.
- 3.6 The Successful Tenderer should note that he will be held responsible for any damage to the property of the CUMC may be caused during Goods transportation and installation. All due measures should be taken by the Successful tenderer to protect such property.

4 Cost of Additional and Alternative Works

The Successful Tenderer will be responsible for the cost as determined by the CUMC for any additional or alternative works to suit the Goods delivery, storage, installation and commissioning requirements if such have not been highlighted clearly by the Successful tenderer and confirmed acceptable by the CUMC before the award of the Contract.

5 Clearance of Materials

- 5.1 The Successful Tenderer shall be responsible for the clearance of all packing materials after delivery/installation of the Goods and shall be responsible to removal and disposal of all materials to a legal place away from the CUMC.
- 5.2 The Successful Tenderer shall undertake to remove, reinstate or re-align any of its works undertaken in respect of this provision if so required by the CUMC at any time during the warranty period.

6 Inspection and Acceptance

- 6.1 All Goods delivered shall be subject to inspection and/or testing by the CUMC and shall be deemed to have been accepted only when the CUMC Representative or any person duly authorised by him, furnishes the Successful Tenderer with an acceptance note.
- 6.2 The date of acceptance of the Goods shall be determined by the CUMC based upon the satisfactory completion of such acceptance test.

7 Rejections

- 7.1 If the CUMC rejects any Goods, the Successful Tenderer shall remove the same at his own expense within 2 working days of being notified in writing by the CUMC Representative of the rejection. If the Successful Tenderer fails to remove the Goods within such period, the CUMC Representative may dispose of the Goods as he sees fit. No liability shall attach to the CUMC in respect of such disposal.
- 7.2 If required by the CUMC Representative under clause 2.1(ii), the Successful Tenderer shall within a reasonable period of time following the rejection replace the Goods

rejected. In the case where replacement Goods have to be obtained from sources outside Hong Kong, the Successful Tenderer must advise the CUMC of the delivery date of such replacement Goods and such date must be to the satisfaction of the CUMC Representative. Time shall be of the essence for delivery of such replacement Goods.

- 7.3 In the event that the Successful Tenderer offers for delivery any Goods which have previously been rejected by the CUMC Representative, the CUMC shall immediately thereupon be at liberty to terminate this Contract.

8 Payment for Goods

- 8.1 Invoice and correspondence concerning payment must be forwarded to the CUMC after the date of acceptance of Goods. The CUMC shall not be held responsible for any delay in payment if invoices and correspondence concerning payment are not properly addressed.
- 8.2 Unless otherwise agreed by the CUMC, no payment shall be made until the Goods delivery have been accepted within the meaning of clause 3 of this part.
- 8.3 The payment shall be made within 30 clear working days from the date of receipt of invoice or acceptance of the Goods by the CUMC, whichever is the later.

9 Default

If the Successful Tenderer fails to deliver all or any of the Goods ordered within the time specified in the order or the Goods are rejected, or the replacement Goods are not delivered within the period mentioned, the CUMC Representative shall immediately thereupon be at liberty to terminate this Contract by written notice addressed to the Successful Tenderer, but without prejudice to any claims by the CUMC Representative for breach of Contract and, in particular, his right to procure any Goods then outstanding from any other source, and the Successful Tenderer shall be liable for any sums so incurred in excess of the Contract price.

10 Liability and Indemnities

- 10.1 The CUMC and its employees or agents shall not be under any liability whatsoever for or in respect of:
- a. Any loss of or damage to any of the Successful Tenderer's property or that of its employees or agents however caused (whether by any negligence of the CUMC or any of its employees or agents or otherwise).
 - b. Any injury to or death of any of the Successful Tenderer's employees or agents save and except any such injury or death was caused by the negligence of the CUMC or any of its employees or agents.
- 10.2 The Successful Tenderer shall indemnify the CUMC and its employees or agents against any claim or demand made against or liability incurred (including all costs, charges or expenses whatsoever) by the CUMC or any of its employees or agents in respect of:

- a. Any loss, damage, injury or death referred to in sub-clause (a) of this clause (save and except injury or death caused by the negligence of the CUMC or any of its employees or agents).
 - b. Any loss or damage sustained by or any injury to or death of any third party in consequence of any negligence of the Successful Tenderer or any of its employees or agents.
- 10.3 In the event of any of the Successful Tenderer's employees or agents suffering any injury or death in the course of or arising out of this Contract and whether there be a claim for compensation or not, the Successful Tenderer shall within 7 clear working days give notice in writing of such injury or death to the CUMC Representative.
- 10.4 Where required by the CUMC, the Successful Tenderer shall take out and maintain insurance with a reputable insurer in such manner as it is agreed with the CUMC to cover its legal liabilities for loss or damage to property and injury or death to persons as a result of the performance of this Contract.
- 10.5 For the purpose of this clause "negligence" shall have the same meaning as that assigned to it in Section 2(1) of the Control of Exemption Clause Ordinance.

11 Bankruptcy

- 11.1 The CUMC Representative may at any time by notice in writing terminate this Contract without entitling the Successful Tenderer to any compensation in any of the following events:
- a. If the Successful Tenderer shall at any time be adjudged bankrupt, or shall have a receiving order or order for administration of his estate made against him, or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purports so to do; or
 - b. If the Successful Tenderer, being a company shall pass a resolution or the Court shall make an order for the liquidation of its assets or a Receiver or Manager shall be appointed over any assets of the Successful Tenderer, or circumstances shall have arisen which entitle the court or a creditor to appoint a Receiver or Manager.

12 Corrupt Gifts

If the Successful Tenderer or any employee or agent of the Successful Tenderer shall be found to have committed an offence under the Prevention of Bribery Ordinance for the time being in force or any subsidiary legislation made thereafter or under any law of a similar nature in relation to this Contract or any other CUMC contract, the CUMC Representative may, on behalf of the CUMC, terminate this Contract, without entitling the Successful Tenderer to any compensation therefor and the Successful Tenderer shall indemnify the CUMC against all costs, claims, damages, losses and expenses necessarily incurred or suffered as a result by the CUMC.

13 Guarantee and Warranty

- 13.1 The Successful Tenderer will provide a warranty of and guarantee the quality of the Goods, and any part or portion thereof, for a period of 12 months from the date of acceptance thereof.

- 13.2 The Guarantee and Warranty provided by the Successful Tenderer shall be manufacturer's Guarantee and Warranty. The CUMC will not accept Guarantee and Warranty by third party other than directly provided by Goods manufacturers.
- 13.3 The Successful Tenderer shall make good as soon as possible and without charge, all defects in the Goods arising from defective design, materials, workmanship or any other cause discovered within the said period referred to in sub-clause 13.1 above.
- 13.4 In the event that the Successful Tenderer is required to replace any defective Goods but he does not at the same time call for the return of the defective Goods, no responsibility for the defective Goods shall rest upon the CUMC, and the CUMC may dispose of them after a reasonable time in whatever manner as it sees fit and retain any proceeds thereof.
- 13.5 If any defects are not made good within a reasonable time, the CUMC may, after serving notice of intent on the Successful Tenderer, proceed to rectify the defects by repair or replacement at the Successful Tenderer's risk and expense without prejudice to any other rights which the CUMC may have against the Successful Tenderer.
- 13.6 The Successful Tenderer shall remain liable to the CUMC under the terms of this clause whether or not the Goods, or any part thereof, were manufactured by him, and the Successful Tenderer shall ensure that the supplier of any Goods not manufactured by him shall be under at least the same liability to the Successful Tenderer as the liability undertaken by the Successful Tenderer to the CUMC pursuant to this clause.
- 13.7 During the warranty period, all services which include replacement of faulty parts, scheduled and breakdown services by qualified maintenance personnel, shall be provided free of charge.

14 Patent Rights

The Successful Tenderer shall indemnify the CUMC against all claims arising at any time that the sale, use or possession of the Goods infringes any patent rights, copyrights or registered design or other intellectual property rights of a third party, or on account of any claims for royalties arising from the sale, use or possession of the Goods, and the Successful Tenderer shall also be liable for any cost to the CUMC that may arise from any such claims.

15 Applicable Law

- 15.1 The validity and interpretation of this Contract shall be governed in all respects by the laws of Hong Kong and the parties shall submit to the exclusive jurisdiction of the courts of Hong Kong in the event of dispute.
- 15.2 The Successful Tenderer shall comply with all applicable international and local laws, rules and regulations pertinent to its obligations under this Contract.

16 Commitment to Environmentally Responsible Purchasing

- 16.1 The CUMC is sensitive to the environmental impact of purchasing decisions and takes account of legitimate environmental concerns while continuing to achieve best value for money in its purchasing functions.

- 16.2 The CUMC identifies products which present environmental concerns and addresses these concerns in the approval of the tender specifications and in the tender evaluation process.

17 Survey Expenses

Without prejudice to other rights or remedies of the CUMC herein or at law, if there are any defects in the Goods, the Successful Tenderer shall be responsible for any expenses incurred in employing a surveyor or any expert to establish the nature of the defects.

18 Inspection or Examination

- 18.1 The Successful Tenderer shall upon request of the CUMC permit the CUMC Representatives to inspect or examine warehouse(s) or distribution operation (such to include without limitation, logistics, manpower, facilities or transportation arrangements) in respect of the Goods.
- 18.2 The Successful Tenderer shall upon request of the CUMC procure written permission from the manufacturer(s) of the Goods to permit CUMC Representatives to inspect or examine the manufacturing facilities and process (including storage) in respect of the Goods.
- 18.3 The Successful Tenderer shall take or procure to be taken any reasonable action to rectify any reasonable concerns raised by the CUMC following inspection or examination under this Clause. The Successful Tenderer shall also furnish the CUMC with a report satisfactory to the CUMC on the action taken, within such time frame as may reasonably be requested by the CUMC.

19 Country of Origin

The CUMC reserves the right to reject any delivery in the event that the Goods are manufactured in the country other than the one originally quoted.

20 Manufacturer

The CUMC reserves the right to reject any delivery in the event that the Goods are manufactured by the manufacturer and in the manufacturing facility other than the one originally quoted.

21 Documentation

- 21.1 All photocopies of operation and maintenance manuals shall be properly bound, stamped and certified as true copies of the original by the manufacturer.
- 21.2 Should any original manufacturer products be included, the documents as specified in 22.1 above shall also be provided.
- 21.3 At the time of delivery of the Goods, appropriate set(s) of the manufacturer's original operation and maintenance manuals in English or in Chinese complete with full circuit diagrams levels shall be provided with the Goods ordered. The following table indicates the quantities of documents required:

No. of set of Goods per model	Set(s) of maintenance manuals required	Set(s) of operation manuals required
1	1	2
2	2	4
3 (or more)	3	6

21.4 The Successful Tenderer is required to submit the documentation in form of softcopy in addition to hardcopy.

22 Certificate of Compliance

The CUMC will not conduct acceptance tests unless and until it has received a certification from the manufacturer that the manufacturer has conducted its own tests and finds that the Goods in question meets the specifications in the Contract.

23 Maintenance Service/Device Installation Requirements

23.1 The Successful Tenderer shall abide to the Occupational Safety and Health Ordinance (CAP. 509) and Regulations of Hong Kong SAR to ensure that the employees' safety and health at work are properly taken care of in the CUMC.

23.2 The Successful Tenderer shall abide to the relevant legal requirements and regulations of environmental ordinance of Hong Kong SAR in order to restrict and reduce the adverse effects on environment as a result of their services/products provided.

24 Changes and Substitution of Goods

24.1 The Successful Tenderer must keep the CUMC advised of any changes in Goods including but not limited to change in design, material, part numbers, supersessions, during the contractual period.

24.2 The Successful Tenderer shall undertake to provide the CUMC at any time before Goods delivery with an option to substitute Goods with new technology for any or all of the offered Goods. The substitute Goods shall have performance characteristics and functional capability equivalent to or better than the originally offered Goods. Such substitution(s) shall cost less than or equal to the replaced Goods. The terms and conditions of this Contract shall remain applicable to such substitutions(s) and the CUMC reserves the right to accept or reject the proposed substitution(s).

25 Notification of Upgrade and Modification

The Successful Tenderer shall inform the CUMC in writing within 5 working days for any upgrade and modification affecting the Goods supplied under this Tender.

26 Product Recall, Hazard Alert and Safety Notice

In case there is adverse incident happened locally and/or in overseas countries affecting the Goods supplied under this Tender that leads to a product recall, hazard alert or safety notice action, the Successful Tenderer is obligated to inform the CUMC in writing

within 24 hours after the Successful Tenderer knew or reasonably should have known the happening of the incident.

27 Publicity

- 27.1 The Successful Tenderer shall submit to the CUMC all advertising or other publicity material relating to the Contract or the Goods supplied or other work done in connection with the Contract wherein the name of the CUMC is mentioned or from which a connection with the CUMC can reasonably be inferred or implied.
- 27.2 The Successful Tenderer shall not publish or use any advertising or other publicity material relating to the CUMC or mention the name of the CUMC for any promotion or marketing purposes without the prior written consent of the CUMC.
- 27.3 Nothing in this Contract expressly or impliedly constitutes an endorsement of any Goods or services and each party agrees not to conduct itself in such a way as to imply or express any such approval or endorsement.

28 Confidential Information

The Successful Tenderer shall ensure that his staff should treat any oral or written information which they obtain under the Contract or accidentally overhear or encounter when carrying out their work in the CUMC premises as confidential and they should not disclose such information to any third party.

29 Performance Monitoring

Tenderers should note that in the event a Tenderer is awarded the Contract, the Tenderer's performance in the Contract shall be monitored and taken into account in evaluating the Tenderer's tenders in response to invitations for tenders by the CUMC in the future. If in the sole opinion of the CUMC, the performance of the Tenderer in the Contract is unsatisfactory, the CUMC may in its absolute discretion disqualify that Tenderer, its holding company and subsidiaries from participation in any future tenders issued by the CUMC, for such period as the CUMC may in its entire discretion consider appropriate. Tender from the Tenderer who has been so disqualified from Tendering by the CUMC shall be rejected.

30 Occupational Safety and Health ("OSH")

- 30.1 The Successful Tenderer shall, so far as is reasonably practicable, take all reasonable steps to ensure the health and safety at work of all its employees performing the Successful Tenderer's obligations under this Contract. The Successful Tenderer shall for the purpose of this Contract where applicable:
 - a. Provide and maintain plant and systems of work that are safe and without risks to health;
 - b. Conduct regular work safety risk assessment exercises and make arrangements to ensure the safety and absence of risks to staff's health in connection with the use, handling, storage and transportation of plant or substances;

- c. Provide adequate information, instructions, training and supervision to its employees on work safety;
 - d. Maintain the workplace, including ingress and egress thereto, as far as is within its control, safe and without risks to health;
 - e. Conduct and monitor OSH compliance;
 - f. Keep and provide proper documentation of training records, duty rosters, incident reports, audit and inspection records and personal particulars of staff, if required by the CUMC; and
 - g. Ensure that the Successful Tenderer's employees take care of the safety and health of other persons who may be affected by their act of omission and co-operate with the CUMC representatives and such other persons to ensure compliance with any applicable statutory requirements.
- 30.2 The Successful Tenderer shall fully indemnify the CUMC from and against all claims, actions, proceedings, demands and suits brought against and/or fines and penalties imposed on the CUMC arising directly or indirectly out of or in connection with the failure of the Successful Tenderer to comply with part or any other obligations imposed under any applicable statutory requirements, including the Occupational Safety and Health Ordinance (Cap 509) and all costs and expenses in connection therewith.

31 Expiry Date

Where product labelling and/or shelf life requirements are set out in the tender specifications, the use before date of all medical devices and consumables, if indicated in the format of MM/YY, will be made reference as use before the first day of the month.

32 Contracts (Rights of Third Parties) Ordinance

The application of the Contracts (Rights of Third Parties) Ordinance is expressly excluded and no person who is not a party to this Contract shall be entitled to enforce any right or term of this Contract pursuant to the Contracts (Rights of Third Parties) Ordinance.

33 Order of Precedence

In the event that there is any conflict, contradiction or ambiguity between any documents which form part of the Contract, the following order of precedence shall be applied in order to resolve any such conflict, contradiction or ambiguity:

- 33.1 Conditions of Contract
- 33.2 Tender Brief
- 33.3 Schedules (Part VII)
- 33.4 Terms of Tender

PART IV
OFFER TO BE BOUND

1 I/We, do hereby bind myself/ourselves to execute orders for any or all of the goods specified in the Schedule, which may during the period or periods specified in the Schedule be placed by the CUMC Representative at the prices quoted in the Schedule free of all other charges, subject to and in accordance with the Terms of Tender and Conditions of Contract.

2 I/We, also certify that the particulars given by me/us below, are correct:

2.1 The number of my/our/the Company's Business Registration Certificate is _____

2.2 The date of expiry of my/our/the company's Business Registration Certificate is _____

2.3 I/We/the Company is/are covered by an Employees' Compensation Insurance Policy, the particulars of which are as follows:

Policy No. _____

Name of Insurance Company _____

Period covered by the Policy is from _____

Brief particulars of the cover provided and any special conditions are as follows:

3 I am the Secretary/Managing Director of the Limited company hereinafter mentioned and duly authorised to bind the said Company by my signature.

I am a partner/We are partners in the firm hereinafter mentioned and duly authorized to bind the said firm and the partners therein for the time being.

The Tender is submitted with the authority and on behalf of _____

Company Limited whose registered office is situated at _____ Hong Kong.

- or -

This Tender is submitted on behalf of myself / ourselves and the firm known as

_____ of _____

Hong Kong and other partners hereof namely; (state names and residential addresses of all other partners):

4 In the event of any queries relating to our offer please contact _____ Tel. No. _____

5 Name(s) and address(es) of person(s) signing:

Signature (s): _____

Dated this _____ day of _____

Notes (1) All the particulars required above must be provided. (ii) Strike out clearly alternatives which are not applicable.

Part V

Employer's Brief

This Employer's Brief aims at providing tenderers with general understanding of the CUMC project and should be read in conjunction with the Tender Invitation issued by the CUMC Ltd. The information contained herein is prepared to the best of our knowledge and should not be seen as binding.

Hospital at a Glance

The CUHK Medical Centre Limited (CUMC/the Hospital) is wholly-owned by the Chinese University of Hong Kong and is a not-for-profit private hospital planned to come into operation in mid-2020.

The CUMC is committed to provide innovative and patient-centered healthcare services, with package prices offered for 70% of inpatient services. This will bridge the service gap between private and public healthcare sectors by providing high-quality medical services with transparent and affordable pricing to middle-class families, so alleviating the pressure on the public healthcare system.

Situated adjacent to the University MTR station, the CUMC will offer convenience to our patients and families. A full range of medical services will be provided through dedicated teams of healthcare professionals, including doctors of all major specialties, nurses and allied health professionals. The hospital is planned to provide 516 in-patient beds, 90 day-beds, 28 operating rooms and 38 consultation rooms. Apart from the in-patient services, the hospital also provides a 24-hour clinic, an integrated specialist outpatient clinic and day services in 8 specialized medical centres. Each area is carefully designed to be user-friendly for all ages including patients, visitors and staff. Services and work flows are streamlined to match patient needs and to eliminate unnecessary waiting and transfers. The hospital's model of care is developed with emphases on personal interactions, patient engagement, healthcare innovations, seamless flows and teamwork. As a smart hospital built for the future, state-of-the-art technologies will be used to enhance clinical outcomes of patient care and operational efficiency.

For more information about The CUHK Medical Centre, please click into the hospital website: www.cuhkmc.hk

Part VI

Tender Brief

1. Tender Requirements

- 1.1 Tenderers are invited to submit offer for the supply and installation of ONE complete set of Radiographic/Fluoroscopic System for Endoscopy Centre of CUMC as specified in this Specification. The ONE complete set of Radiographic/Fluoroscopic System together with its associated accessory and ancillary equipment items shall hereinafter be referred to as “the Equipment”.
- 1.2 Installation Site of the Equipment shall be at the Endoscopy Centre, Level 2, CUMC, Shatin Town Lot No. 437.
- 1.3 **Materials for Reference**
The layout drawings in CAD format are available for viewing after signing a Confidentiality Non-Disclosure Agreement with CUMC, please contact CUMC at procurement@cuhkmc.hk. are available for viewing after signing a Confidentiality Non-Disclosure Agreement with CUMC, please contact CUMC at procurement@cuhkmc.hk. The Tenderers should take note that the layout plans are still subject to amendment due to site constraints and/or statutory approval requirements during the course of construction.
- 1.4 Tenderers shall provide in their Tender returns full information about the functionality and performance of their equipment on offer, including relevant clinical and technical data, to support and justify their Tender offers. A Tender submission that fails to provide information and data as required would be disqualified.
- 1.5 The equipment on offer shall be complete and fully complied with the Tender Specifications. Incomplete or partial offers shall not be considered.
- 1.6 Unless otherwise stated, the equipment offered shall incorporate the components/requirements/features specified in the Tender Specifications. The specification only outlines the minimum requirement for the system.
- 1.7 Tenderers must indicate, clause by clause, whether their offered products comply fully with the specifications by entering ‘Yes’ or ‘No’ against each clause. Tenderers, at their own discretion, may add details to provide further information pertaining to the clause. Failure of the Tenderers to comply with the foregoing requirements may jeopardize the consideration of their offers.

2. Specifications of the Equipment

- 2.1 The Tender Specifications are divided into the following sections:
Section A: General Requirements
Section B: The Equipment Requirements
Section C: Delivery, Installation and Other Requirements
- 2.2 Requirements of the specifications are classified under the following categories:
M = Mandatory
D = Desirable

Section A: General Requirements				
Clause	Specification	Type	Yes/No	Details
1.0	Basic Requirements			
1.1	Tenderers shall supply and install the Equipment for the CUHK Medical Centre (“CUMC”) at the installation site.	M		
1.2	The installation site at CUMC is the yellow shaded area of Appendix I attached hereto.	M		
1.3	The Equipment must be specifically designed for clinical use and must fulfill all the specifications stated herein.	M		
1.4	The provision of all hardware and software licences should be valid for the entire serviceable life of the Equipment and the serviceable life period must be stated.	M		
1.5	The functions/features of the proposed model of the Equipment should be ready in the market on the closing date. Tenderers shall provide documentary proof to substantiate that their products are in compliance with this requirement.	M		
1.6	Tenderers are invited to submit proposal for the construction of the whole installation site formation works including all builder’s works and E&M’s works, the supply and installation of the Equipment and the associated site preparation for proper installation, testing and subsequent operation of the Equipment. The proposal should be comprehensive and in whole.	M		
1.7	Itemized prices of the Equipment should be included in the submission.	M		
1.8	Tenderers should state if there will be new or more technologically advanced product proposed that will be put into the market other than that their proposed Equipment within 12 months from the date of submission. Should a new or more technologically advanced Equipment become available within the said 12 months and no such information has been given in their submission, the chosen Tenderers shall and is obliged to replace the supplied or installed Equipment with the new Equipment without any further charge to CUMC.	M		
1.9	Tenderers should provide the information pertaining to the new features of the Equipment anticipated to be available at the time of installation.	M		
1.10	Tenderers should submit the Equipment drawings for the floor area where the Equipment will be installed as well as the network layout drawings for areas involved.	M		
1.11	Tenderers should accept the reasonable changes that may be required by CUMC before the installation of the Equipment without any additional or extra charge/fee to CUMC.	M		

Section A: General Requirements				
Clause	Specification	Type	Yes/No	Details
1.12	The installation of the Equipment at the building and the relevant building service works should comply with the quality, safety and legislative/statutory requirements, code of practice and design guidelines issued by the relevant authorities of the Government of HKSAR.	M		
1.13	Tenderers are required to comply with all relevant ordinances and appoint an Authorized Person (AP), a Registered Structural Engineer (RSE), a qualified Building Services Engineer (BSE) and a Registered Safety Officer (RSO) if necessary to supervise the architectural, structural and building service works in relation to the installation of the Equipment respectively. Tenderers shall indicate clearly the scope of duties of the AP, RSE, BSE and RSO. Furthermore, a qualified clerk of works and a building services inspector are required to supervise the site works for building and building service installations respectively.	M		
1.14	Tenderers should provide architectural and structural plans (if necessary) certified by the AP and RSE in compliance with all the relevant legislations/regulations/Code of Practice in relation to any building work and the installation of the Equipment.	M		
1.15	Tenderers are required to submit the names of their sub-contractors for building, building service installations respectively for the site works.	M		
1.16	The sub-contractors for the site preparation works shall be Registered Building Contractors for building works and Registered Specialist Building Contractors under the Buildings Ordinance of appropriate discipline for building service works.	M		
1.17	The current edition of the schedule of Conditions of Building Contract for Use in the HKSAR published by HKIA and all current editions of general specification for Building/ Building Services works issued by the Architectural Services Department (ArchSD) are to be adopted.	M		
1.18	Any conviction under the following Ordinances is/are required to be disclosed in the submission, these include the (i) Immigration Ordinance (Cap. 115), (ii) Factories and Industrial Undertakings Ordinance (Cap. 59), (iii) Occupational Safety and Health Ordinance (Cap. 509), (iv) Shipping and Port Control Ordinance (Cap. 313) and (v) Employment Ordinance (Cap. 57), failing which the successful Tenderer shall be disqualified forthwith without any compensation from CUMC no matter whether the successful Tenderer has commenced any work or not.	M		

Section A: General Requirements				
Clause	Specification	Type	Yes/No	Details
1.19	The Equipment shall be fully functional according to this Specification. The Equipment shall be designed, manufactured and installed to operate with optimum performance and to the complete satisfaction of the end user of CUMC. The price of the Equipment shall include all components, items and parts of the Equipment which are necessary and essential for the proper functioning of the Equipment.	M		
1.20	The successful Tenderer shall coordinate and cooperate with the end user and other involved parties in the delivery, storage, installation, testing and operation of the Equipment and all other related works until the installation and operation of the Equipment is satisfactorily completed and accepted by CUMC.	M		
1.21	Tenderers are required to state the details of all environmental condition, service condition, service connection and tolerance limits required for the satisfactory operation of their Equipment, e.g., the temperature, humidity, ventilation, electrical supply and power requirements, water supply and flow etc. that may be required.	M		
1.22	The successful Tenderer shall also be responsible for liaising with other contractors of CUMC to undertake the interfacing with CUMC's plants/systems for the works related to the installation of the Equipment.	M		
1.23	Tenderers shall acquaint themselves with the conditions and provisions of the building and building services of the installation site relating to and in connection with the installation and operation of the Equipment. Additional cost, if any, incurred to the successful Tenderer arising from incompatibilities, inadequacies and/or other site constraints found in the installation stage shall be deemed to have been borne in the submitted price of the Equipment and no additional or extra costs shall be charged on CUMC.	M		
1.24	Tenderers should guarantee the functionality and technical performance of the Equipment for at least 10 years, effective from the date of acceptance of the installation and operation of the Equipment. The successful Tenderers shall provide maintenance of the Equipment.	M		
2.0	Total Solution Requirements Tenderers shall provide the following for CUMC's consideration:			

Section A: General Requirements				
Clause	Specification	Type	Yes/No	Details
2.1	A detailed proposal on how the Fluoroscopic system (including the Equipment) and image workstations can be connected to the Picture Archiving and Communication System (PACS), Radiology Information System (RIS) and Hospital Information System (HIS) of CUMC to achieve an effective and efficient digital image/data exchange.	M		
2.2	A proposal and a policy on software and hardware upgrades of the Equipment during and after the warranty period.	M		
2.3	A proposal and a policy on technology substitution to ensure that immature obsolescence can be avoided. The proposal shall include the commitments of the Tenderers to supply and install the state-of-the-art software and hardware technology on the date of delivery.	M		
2.4	A proposal on technical and specialist support on operational and functional aspects of the Equipment during and after the warranty period. The proposal shall include the commitments of the Tenderers to provide the proposed support. Tenderers shall specify if any local specialists can provide such support. The qualifications and expertise of the specialists who provide such support should be included in the submission.	M		
2.5	A proposal on training of CUMC staff on the operation and applications of the Equipment. The proposal shall include commitments of the Tenderers on future training provisions in the event of hardware and software upgrades.	M		
2.6	A proposal for maintenance arrangement and service support during the warranty period.	M		

– END OF SECTION A –

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
1.0	X-ray Generating System <u>ONE</u> set of X-ray generating unit for digital radiography and fluoroscopy incorporating at least the following features:	M		
1.1	3-phase, high frequency converter generator or equivalent.	M		
1.2	Microprocessor or computer control.	M		
1.3	Solid-state rectification and high-tension control.	M		
1.4	Automatic line voltage compensation.	M		
1.5	Nominal power output not less than 100 kW.	M		
1.6	Rating shall be at least:	M		
1.6.1	1000 mA at 100 kV or better.	M		
1.6.2	800 mA at 125 kV or better.	M		
1.7	Suitable for connection to tri-focus X-ray tube assemblies.	M		
1.8	kV range:	M		
1.8.1	Radiography: ≤ 45 kV to ≥ 125 kV.	M		
1.8.2	Fluoroscopy: ≤ 45 kV to ≥ 125 kV.	M		
1.9	Exposure time: minimum exposure time: ≤ 5 msec. Tenderers shall state the exposure time range.	M		
1.10	Continuous fluoroscopy	M		
1.11	Pulsed fluoroscopy	M		
1.12	Pulse rate shall be user selectable.	M		
1.13	Digital display of operator preset exposure data and actual exposure data after exposure.	M		
1.14	Digital indication of error code.	M		
1.15	High speed rotor control.	M		
1.16	Each exposure program shall include not less than 2 additional selections for appropriate patient size compensation.	M		
1.17	System shall be user programmable. Tenderers shall provide operation menu for the configuration of exposure program.	M		
1.18	Selection of exposure program shall be by touch controls or push button controls.	M		
1.19	Allow rapid switching between fluoroscopy and acquisition modes.	M		
1.20	All necessary cablings and accessories for the operation of generator shall be provided.	M		
1.21	All necessary protection circuits shall be incorporated.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
2.0	X-ray Tube ONE set of rotating anode, high speed, dual/multi focus X-ray tube, completed with tube housing, high tension cables and all necessary accessories to be mounted under couch on the tube support system of the gantry for digital fluoroscopy and digital radiography.	M		
2.1	Focal spot sizes of the X-ray tube: a. 0.3 mm or smaller for the smallest focal spot. b. 1.0 mm or smaller for the largest focal spot.	M		
2.2	Maximum tube loading: ≥ 85 kW	M		
2.3	Maximum tube voltage: ≥ 125 kV.	M		
2.4	Maximum heat storage capacity of anode: $\geq 1,500$ kHU.	M		
2.4.1	Preference will be given to the offer with the highest heat storage capacity of anode. Tenderers shall quote the value for reference.	D		
2.5	Maximum heat storage capacity of assembly: $\geq 2,000$ kHU.	M		
2.5.1	Preference will be given to the offer with the highest heat storage capacity of assembly. Tenderers shall quote the value for reference.	D		
2.6	Maximum heat dissipation of assembly: $\geq 1,200$ W	M		
2.6.1	Preference will be given to the offer with the highest heat dissipation of assembly. Tenderers shall quote the value for reference.	D		
2.7	Maximum current at pulsed fluoroscopy: ≥ 250 mA.	M		
2.8	The total inherent filtration of the tube: ≥ 2.5 mm Al equivalent at 80 kVp.	M		
2.9	Radiation leakage of the tube housing shall comply with the current requirements of the ICRP and the Radiation Ordinance of Hong Kong.	M		
3.0	Radiation Dose Management System			
3.1	Incorporated with Automatic Brightness Control (ABC) and Automatic Exposure Control (AEC) for optimal dosage management.	M		
3.2	Automatic dose rate control that allows change of more than one exposure factor for maximal image contrast during fluoroscopy.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
3.3	Automatic pulse width control for pulsed fluoroscopy. Mechanism of the control shall be stated.	M		
3.4	System allowing automatic focus selection for optimal image quality.	M		
3.5	Exposure factors for acquisition series to be obtained and preset from preceding fluoroscopy.	M		
3.6	Capable of pulse fluoroscopy and pulse rate shall be user selectable.	M		
3.7	Preference will be given to the offer with fluoroscopy frame rate selection 0.5 fps to 4 fps. Tenderers shall quote the value for reference.	D		
3.8	Allow fluoroscopy frame rate of 30 fps without reduction of image field. Tenderers shall quote the value for reference.	D		
3.9	At least 5 copper filters automatically inserted according to the tissue attenuation.	M		
3.10	The thickness of the thickest filter shall be at least 0.9mm copper equivalent. Tenderers shall quote the value for reference.	D		
3.11	“Last Image Hold” (LIH) function.	M		
3.12	DICOM structured report containing patient, procedure and dose data.	M		
4.0	Collimator <u>ONE</u> set of multi-plate collimator unit to be mounted to the X-ray tube with rectangular/square and iris collimation, fully compatible with the tube unit and supporting system on offer.	M		
4.1	Radiation leakage shall comply with the current requirement of the ICRP and the Radiation Ordinance of Hong Kong.	M		
4.2	Automatic collimation of the X-ray beam to the size of input field of the image detector in fluoroscopy and fluorography.	M		
4.3	Incorporated with mounting for additional anatomical filters. Types of filters shall be stated.	M		
4.4	To be equipped with semi-transparent wedge filters.	M		
4.5	Collimation without radiation on LIH.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
5.0	Dose-Area Product Meter (DAP meter)			
5.1	<u>ONE</u> set of dose-area product measuring device shall be installed and preferably integrated with the system on offer for recording the current patient dose rate and accumulated patient radiation dose.	M		
5.2	It shall comprise of measuring units and allow the dose record being documented.	M		
5.3	The measuring device on offer shall not hinder the functions and operation of the system.	M		
6.0	C-arm Gantry The C-arm gantry that connects the Flat Detector (FD) and the X-ray tube housing together with the table shall be a single system consisting of at least the following features:	M		
6.1	Centre beam of the X-ray tube shall be in precise alignment with the coupling image-detector at all time.	M		
6.2	ONE set of table-side or mobile remote control for table and gantry movement shall be provided.	M		
6.3	Variable source to FD distance from 950 mm or less to 1200 mm or more.	M		
6.4	Longitudinal movement range of the carriage system shall not be less than 1500 mm.	M		
6.4.1	Preference will be given to the offer with the longest longitudinal movement range of the carriage system. Tenderers shall quote the value for reference.	D		
6.5	Capability of storing gantry positions for quick reference.	M		
6.6	Angulation of the gantry shall allow:	M		
6.6.1	LAO $\geq 60^\circ$	M		
6.6.2	RAO $\leq 90^\circ$	M		
6.6.3	Cranial Tilting $\geq 40^\circ$	M		
6.6.4	Caudal Tilting $\geq 40^\circ$	M		
6.7	The C-arm gantry shall support movement of the examination table from 90° upright position to 90° Trendelenburg $\pm 5^\circ$.	M		
6.8	Gantry height adjustment range: ≥ 350 mm.	M		
6.9	To be provided with intelligent device(s) for preventing collisions between installed hardware(s) and between hardware against floor, wall or ceiling.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
6.10	A safety mechanism shall be in place to prevent the X-ray tube, image detector or any other components from free falling in the event of lock, spring, cable or other support failure.	M		
6.11	The position of FD and the X-ray tube can be reversed: a. in PA position when FD is above table with X-ray tube below. b. in AP position when FD is below table with X-ray tube above.	M		
6.12	Detector-side switches for the control of gantry and flat detector movements shall be available.	M		
7.0	Radiological Examination Table <u>ONE</u> set of radiological examination table, fully compatible with the C-arm gantry, incorporating at least the following features:	M		
7.1	ONE piece of carbon reinforced fiber table-top having an X-ray attenuation value of not more than 2mm aluminum equivalent at 100kV.	M		
7.2	Maximum loading weight ≥ 300 kg.	M		
7.2.1	Supporting device for Cardiopulmonary Resuscitation (CPR) required for achieving maximum table loading shall be provided.	M		
7.2.2	Preference will be given to the offer with the highest permissible table loading. Tenderers shall specify explicitly under which conditions such loading is achieved.	D		
7.3	Dimension of table-top shall not be less than 2200mm (L) x 550mm (W).	M		
7.4	Longitudinal table travel ≥ 1200 mm.	M		
7.5	Transverse table movement ≥ 600 mm.	M		
7.6	Patient coverage ≥ 180 cm.	M		
7.7	Table height shall be adjustable to facilitate patient transfer.	M		
7.8	Lowest table height from the floor level: ≤ 700 mm.	M		
7.9	Table height adjustment ≥ 500 mm.	M		
7.10	Hinge of the table on left side (viewing from operator side) shall be available to facilitate ERCP procedures.	M		
7.11	From 90° upright position to 90° Trendelenburg $\pm 5^\circ$.	M		
7.12	Table movement control shall be integrated with the gantry control.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
7.13	To be provided with not less than one emergency stop button for table and gantry movements.	M		
7.14	Power control for all table and C-arm movement shall be provided.	M		
7.15	To be provided with the following accessories:	M		
7.15.1	ONE pair of shoulder supports.	M		
7.15.2	ONE set of body straps.	M		
7.15.3	ONE pair of hand grips.	M		
7.15.4	ONE piece of radiolucent table-top mattresses.	M		
7.15.5	ONE set of foot-rest to be mountable to the table.	M		
7.15.6	ONE pair of foot holders.	M		
7.15.7	TWO sets of stainless steel infusion bottle holder each with retaining rod and 4 retaining rings together with attaches to the accessory rail of the patient table.	M		
7.16	Tenderers shall offer all other accessories which may be available for the operation with the examination table.	M		
8.0	Image Detection System			
8.1	Provision of <u>ONE</u> set of flat panel detector.	M		
8.2	Detector size (diagonal): 48cm ± 0.5cm.	M		
8.3	Five different sizes (diagonal) of input fields selectable:	M		
8.3.1	48cm ± 0.5cm	M		
8.3.2	42cm ± 3cm	M		
8.3.3	32cm ± 3cm	M		
8.3.4	22cm ± 3cm	M		
8.3.5	11cm ± 3cm	M		
8.4	Detector orientation: portrait and landscape.	M		
8.5	Detector material: Caesium Iodide scintillator/Amorphous Silicon photodiodes or equivalent.	M		
8.6	Detector matrix: 2480 x 1920 or better.	M		
8.7	Pixel size: ≤ 154µm.	M		
8.8	Spatial resolution (Nyquist frequency): ≥ 3.25 lp/mm.	M		
8.9	Grayscale resolution per pixel: ≥ 14 bits.	M		
8.10	Digital output: 2480 x 1920 x 12 bits or better.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
8.11	Acquisition rate: up to 6 f/s or higher at 1k ² /12 bits.	M		
8.12	Detector Quantum Efficiency (DQE) at 0 lp/mm ≥ 65% or better.	M		
8.12.1	Preference will be given to the offer with the highest DQE. Tenderers shall quote the value for reference.	D		
8.13	Modulation depth at 1 lp/mm: ≥ 60%.	M		
8.14	Modulation depth at Nyquist frequency: 10% or better.	M		
8.15	A comprehensive set of QA tools and phantoms for the flat panel detector shall be provided.	M		
8.15.1	One set of fluoroscopy QA tools (Leeds Test Objects: SFS Set).	M		
8.15.2	One set of dynamic range test tools (Leeds Test Objects: TO DR (4-piece) Set).	M		
8.16	Full pixel resolution for acquisition and storage of single images and series with a resolution of up to 4.76 megapixels (2480 x 1920).	M		
9.0	Image Display Systems			
9.1	Flat-panel Image Displays	M		
9.1.1	ONE set of medical-grade grayscale flat-panel display for live images to be installed in the examination room.	M		
9.1.2	ONE additional set of medical-grade grayscale flat-panel display for reference images to be installed in the examination room.	M		
9.1.3	TWO sets of medical-grade grayscale flat-panel displays for the live & reference images to be installed in the control room.	M		
9.2	Hardware Configurations:	M		
9.2.1	Diagonal display: ≥ 19" (48cm).	M		
9.2.2	Brightness of grayscale display: ≥ 600 cd/m ² .	M		
9.2.3	Brightness of colour display: ≥ 280 cd/m ² .	M		
9.2.4	Contrast Ratio: ≥ 600: 1.	M		
9.2.5	Image display matrix: ≥ 1k ² x 10 bits (grayscale & color).	M		
9.2.6	Horizontal viewing angle: ≥ 170°.	M		
9.2.7	Ambient light sensor.	M		
9.2.8	Monitors can be used to view X-ray live and reference images	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
9.2.9	All flat-panel displays installed inside examination room shall be mounted on the ceiling-suspended display carriage as specified in Clause 9.3.	M		
9.2.10	All flat-panel displays shall conform to CE Medical Device Directive or equivalent.	M		
9.2.11	Grayscale displays shall conform to the DICOM Grayscale Display Function Standard.	M		
9.3	ONE set of display carriage inside examination room with at least the following features:	M		
9.3.1	Ceiling-suspended carriage capable to support at least two sets of flat-panel displays: <ul style="list-style-type: none"> • Live monitor (Clause 9.1.1). • Reference monitor (Clause 9.1.2). 	M		
9.3.2	Two additional slots for installation of: <ul style="list-style-type: none"> • Endoscopy monitor 26" or smaller. (Monitor to be supplied by endoscope supplier which will be responsible to do the relevant cabling work.) • Patient monitor (Monitor to be supplied by patient monitor supplier which will be responsible to do the relevant cabling work.) 	M		
9.3.3	Allow height adjustment, longitudinal travel, tilt and/or swivel.	M		
9.3.4	Height adjustment range of the monitor carriage shall be at least 80cm.	M		
9.3.5	Longitudinal travel range of the monitor carriage shall be at least 300cm.	M		
9.3.6	Rotation angle shall be at least 300°.	M		
9.3.7	Enable a full range of image viewing at either the head end or sides of the patient. The carriage shall not interfere with the full movement range of imaging system on offer.	M		
9.3.8	Digital display of system messages.	M		
9.3.9	An "X-ray On" indicator light shall be installed on the ceiling-suspended display carriage so that it is clearly visible from virtually anywhere inside the room.	M		
10.0	Control Console/Modules			
10.1	Operator Console	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
10.1.1	Provision of the latest version of software and hardware configuration of the host computer for the system on offer at the time of delivery.	M		
10.1.2	Details of the hardware and software including operating system, RAM, hard drive array, display peripheral and storage capacity shall be stated.	M		
10.1.3	Digital storage capacity at 1024 x 1024 x 12 bits matrix: not less than 25,000 images including reference images.	M		
10.1.4	The control console shall comprise of: a. ONE data/live monitor & b. ONE reference monitor	M		
10.1.5	Keyboards, exposure control keys, mouse, alpha-numeric keyboard (or equivalent), remote control joystick(s) are to be installed on the console.	M		
10.1.6	Capability to control all the imaging functions including setting of exposure, acquisition parameters and programs, patient data entry, image processing, evaluation, display, documentation, archiving functions; and all the C-arm gantry, image detector and table movements.	M		
10.1.7	Interface with the PACS broker for worklist management.	M		
10.1.8	The images can also be routed automatically to the image archiving nodes for storage and distributed to the DICOM workstation.	M		
10.2	On-board Archiving System	M		
10.2.1	Provision of not less than one local archiving device using commercially available archiving media. DICOM viewer shall be included in the export file.	M		
10.2.2	Tenderers shall state the specifications of the archiving devices offered.	M		
10.2.3	Image exported to CD-R/DVD-RW drive or equivalent.	M		
10.2.4	Disk shall be re-writable and image data can be appended.	M		
10.2.5	Image exported to portable media such as USB flash-drive or thumb-drive.	M		
10.2.6	Successful Tenderer shall offer the latest technology available in the market.	M		
10.2.7	Not less than 100 numbers of archiving media, excluding the media for installation test, preferably rewritable type, should be provided.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
10.2.8	The Tenderers shall ensure the images stored on the media can be reviewed without loss of information by existing DICOM review workstations and can be routed into the image archive server.	M		
10.3	Control Modules	M		
10.3.1	TWO full sets of remote control modules for table/C-arm gantry movement, collimation, fluoroscopy and fast review/searching/processing of images. One shall be mounted on the mobile cart or table side rail; the other being installed inside control panel.	M		
10.3.2	Touch screen control for fast review/searching/processing of images is preferred.	M		
10.3.3	TWO sets of foot switches OR hand switches for both fluoroscopy and acquisition: one for examination room, the other inside control panel.	M		
10.3.4	Protection against ingress of water (IEC 60529): a. IPx4: Control modules and hand switches b. IPx8: Footswitches	M		
10.3.5	Direct filming from the console shall be available.	M		
10.3.6	Direct printing function shall be connected and enabled.	M		
10.3.7	Support variable printing format & size. Details shall be provided.	M		
11.0	Image Acquisition			
11.1	Image acquisition matrix: 2480 x 1920 x 12 bits or better.	M		
11.2	Real time non-subtracted acquisition.	M		
11.3	Support single shot digital radiography.	M		
11.4	Variable frame rate of image format in 1024 x 1024 x 12 bits or more.	M		
11.5	Up to 6 f/sec or faster at 1024 x 1024 x 12 bits resolution, or higher in digital radiography.	M		
11.6	The digital image acquisition mode shall be fully integrated with the ABC function with manual override.	M		
11.7	Not less than three user selectable dose rate level.	M		
11.8	Manual override/adjustment of exposure setting is allowed.	M		
11.9	Display of all radiographic parameters and acquisition factors prior to acquisition.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
11.10	Display of exposure rate during acquisition and actual exposure after acquisition.	M		
11.11	Continuous fluoroscopy with real time digital filtration.	M		
11.12	Pulsed fluoroscopy with real time digital filtration.	M		
11.13	Allow vertical and horizontal flip of image display in live fluoroscopy according to various patients' positions.	M		
11.14	Storage of reference images from last image hold or acquired series.	M		
11.15	Allow storage of digital fluoroscopic images as cine-loop.	M		
11.16	Allow storage of not less than 2 reference positions.	M		
11.17	Added text on the fluoroscopic image should be able to store in the record.	M		
11.18	Digital filters for optimizing image quality.	M		
11.19	Tenderers shall provide application packages for reducing patient radiation dose in positioning without using fluoroscopy.	M		
12.0	Image Processing and Display Functions			
12.1	Grey scale inversion.	M		
12.2	Image zoom and roam.	M		
12.3	Real time contrast & edge enhancement.	M		
12.4	Noise reduction.	M		
12.5	Image rotation, flip and invert.	M		
12.6	Automatic windowing and leveling adjustment.	M		
12.7	Automatic and manual shutter on display images.	M		
12.8	Magnifying glass or equivalent feature.	M		
12.9	Automatic labeling allowed.	M		
12.10	Patient data entry or remarks.	M		
12.11	Distance, angle and diameter measurement with calibration.	M		
12.12	Free graphic and text annotation, can be stored with image and being transferred to the assigned destinations without loss.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
13.0	Other Accessories			
13.1	ONE set of ceiling-suspended, height adjustable, clear lead acrylic radiation protection panel with a size of at least 60cm x 70cm. The acrylic panel shall have a lead equivalence of 0.5 mm at 80kVp or better.	M		
13.2	One complete set of detachable lead drapes for table protection with the following specification: a. Frame to mount on the table top b. Lower protection side (width 1140 mm, height 684 mm, lead equivalent 0.5 mm) c. 2x top shield side long (width 186 mm, height 351 mm, lead equivalent 0.5 mm) d. 2x top shield side short (width 186 mm, height 301 mm, lead equivalent 0.5 mm) e. Lower protection front (width 725 mm, height 684 mm, lead equivalent 0.5 mm) f. Top shield front (width 703 mm, height 301 mm, lead equivalent 0.5 mm)	M		
13.3	FIVE numbers of thyroid shields with lead equivalence of 0.5mm at 80kVp or better.	M		
13.4	ONE set of wall mounted or mobile apron rack. It shall accommodate at least TEN aprons.	M		
13.5	FIVE pairs of light weight lead glasses of 0.75mm lead equivalent at 80kVp or better with wrap around for radiation protection.	M		
13.6	FIVE full length lead protective aprons of lead equivalent 0.5mm at 80kVp or better. The aprons on offer shall be fastened with board velcro-strapping at upperback and velcro-fasteners on long waist belt.	M		
13.7	ONE set of audio patient comfort system.	M		
13.8	ONE set of temperature and humidity monitor.	M		
13.9	TWO dehumidifiers.	M		
13.10	ONE set of two-way intercom for communication between control room and examination room.	M		
13.11	ONE set of patient transfer board.	M		
13.12	ONE set of towel/contrast medium warmer.	M		
13.13	THREE ergonomically designed chairs with arm rest shall be provided.	M		
13.14	FOUR cabinets shall be provided. The models shall be agreed with user.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
13.15	Successful Tenderer shall provide the information for integration of the system in examination room with the image archive system in the CUMC for storage of fluoroscopic image / video in DICOM format.	M		
13.16	All other necessary accessories that will be needed for satisfactory operation of the Multipurpose Radiographic / Fluoroscopic System and other items included in this offer.	M		
14.0	Optional Items			
14.1	Tenderers are required to quote a comprehensive list of optional accessories, either hardware or software, which may be suitable for use by the whole system to improve efficiency, performance or quality of the equipment. For example, such items may include computer upgrades, application software packages etc.	M		
14.2	Full details and functions of all the items with itemized prices in HK dollar shall be provided in their price proposal return for consideration by the CUMC.	M		
15.0	System Stability Tenderers shall provide documentary evidence to demonstrate the stability of the system on offer. The number of clinical sites currently using such system shall be stated.	M		
15.1	The functions/features of the proposed model shall be ready in the market and must have at least 1-year track record in Hong Kong or overseas countries on the tender closing date. Tenderers shall provide documentary proof to substantiate that their products are in compliance with this requirement.	M		
15.2	The Equipment shall be clinically functional, have the clearance of the US FDA or CE certification. Tenderers shall provide documentary proof to substantiate that their products are in compliance with this requirement.	M		
16.0	Ancillary Items			
16.1	The Equipment shall be provided with all cables, cabinets, transformers, interfaces, control console(s) and other ancillary items necessary for full and satisfactory operation of the system.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
16.2	Unless explicitly stated otherwise by the Tenderers, all installation works not specified in the tender specifications but are essential to the successful installation and effective functioning of the Equipment shall be the responsibility of the successful Tenderer.	M		
17.0	Power Supply Requirement			
17.1	The equipment including its accessories shall remain in full operation within the specification throughout the supply with voltage range of 380 V +/- 10%, 50 Hz +/- 2%, three phase A.C. Tenderers shall state the total current consumption requirements of the complete Equipment and its original equipment manufacturer (OEM) items.	M		
17.2	The system including all OEM items on offer shall have protective device to safeguard the system from being damaged due to sudden power surge and interruption.	M		
17.3	Uninterrupted Power Supply (UPS) System for operator console and workstations of the system sufficient to provide at least 10 minutes power supply for proper shutdown of system and data backup during sudden electrical power interruption.	M		
17.4	The Equipment shall be able to ride through voltage dip according to Semiconductor Equipment and Material International (SEMI) curves or equivalent.	M		
18.0	Equipment Safety			
18.1	Equipment offered and its ancillary equipment shall comply with latest version of the following the safety requirements of IEC 60601-1 or equivalent. Variations from IEC 60601-1 have to be stated.	M		
18.1.1	IEC 60601-1-1 or equivalent Medical Electrical Equipment – Part 1: General Requirements for Safety 1: Collateral Standard: Safety Requirements for Medical Electrical Systems.	M		
18.1.2	IEC60601-1-2 or equivalent Medical Electrical Equipment – Part 1: General Requirements for Safety 2: Collateral Standard: Electromagnetic Compatibility - Requirements and Tests.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
18.1.3	IEC 60601-1-3 or equivalent Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment.	M		
18.1.4	IEC 60601-2-7 or equivalent Medical electrical equipment - Part 2-7: Particular Requirements for the Safety of High-voltage Generators of Diagnostic X-ray Generators.	M		
18.2	The radiation safety of the equipment shall comply with the latest requirements of ICRP and the statutory requirements of the Hong Kong Radiation Ordinance.	M		
18.3	Meets UL, CSA, and TUV medical safety standards or equivalent.	M		
18.4	Meets FCC, VDE, CISPR A limits for EMI emissions or equivalent.	M		
18.5	Fuse protection in AC inputs.	M		
19.0	Radiation Protection and Safety Requirements			
19.1	The as built Fluoroscopic examination room has provisions for radiation protection done by the builder. The successful Tenderer shall be responsible for the addition and/or modification of these provisions, if found necessary, to meet the radiation protection requirement of not exceeding 3 microgray/hr behind a protection barrier when an exposure is made under the prevailing Hong Kong Radiation Ordinance. Additional cost incurred to the successful Tenderer arising from such addition and/or modification shall be deemed to have been borne in the submitted Tender price.	M		
19.2	All voids found in the lead-lined partition/ wall shall be made good and lead-lined by the successful Tenderer to retain the integrity of radiation protection so provided.	M		
19.3	Lead over-lapping shall be provided at all joints, angles and nailing points etc. when the installation works involve the lead shielding in-situ.	M		
19.4	The floor trunking (cable trench) shall not compromise the integrity of the floor slab in the provision for radiation protection, otherwise lead lining is required to resume the degree of radiation protection so provided by the floor slab.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
19.5	All doors and door frames leading to the X-ray rooms shall be lead-lined and provide the same lead-equivalence as the adjacent walls. The doors and door frames shall be constructed that appropriate shielding geometry is achieved.	M		
19.6	Radiation safety of the X-ray tube and the X-ray room shall be subjected to an acceptance test by CUMC representative following the completion of installation by the successful Tenderer. CUMC will not conduct any acceptance test pertaining to radiation safety until it has received full certification from the successful Tenderer who has conducted its own tests and find that radiation safety requirement has been met.	M		
19.7	The successful Tenderer shall be responsible for the supply and installation of radiation warning lights above the doors leading into the X-ray room. The warning lights shall be synchronized with activation of X-ray exposure.	M		
19.8	Appropriate radiation warning signs (in Chinese and English) shall be provided on the doors leading to the X-ray room for display. The format and wordings used shall comply with the statutory requirements (refer to Appendix II).	M		
19.9	A detailed drawing showing the final configuration of the provisions for radiation protection shall be submitted by the successful Tenderer to CUMC for radiation licensing purpose.	M		
20.0	Network Capability			
20.1	The system on offer shall support standard 100 BaseT/GigaBit Ethernet (UTP connection) direct network link to DICOM 3.0 file server, workstations and printing system with the following features:-	M		
20.2	The system shall be able to support the DICOM 3.0 print class format and shall be capable to provide direct printing to DICOM 3.0 printing device.	M		
20.3	The system shall be able to support the DICOM 3.0 storage class format. The acquired images can be transformed as DICOM 3.0 format to be sent and stored in a DICOM 3.0 network fileserver for high capacity remote image storage and archive. It shall also support storage commitment.	M		
20.4	The system shall be able to support DICOM Get work list for direct input of patient demographic from RIS into the equipment.	M		
20.5	System supporting DICOM Modality Performed Procedure Step (MPPS) function.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
20.6	Tenderers shall undertake to connect the system on offer to user's main PACS System in such a way that images in the system can be downloaded to the review workstations for display, post-processing and filming.	M		
20.7	Tenderers shall assist network storing/archiving of digital images to user's main PACS system and the Tenderers shall demonstrate digital images to be successfully and satisfactorily displayed/archived in the review workstations.	M		
20.8	Tenderers shall liaise with user's PACS vendor and/or CUMC I.T. team to work on network connection and connectivity test. Quotation for the job mentioned will be provided by users' PACS vendor. All cost quoted shall be absorbed by the successful Tenderer.	M		
20.9	Tenderers shall ensure the Equipment to be operating smoothly and efficiently in terms of rate of image transfer to PACS, RIS and HIS via user's department.	M		
20.10	Successful Tenderer is responsible to provide and install any additional parts in conjunction with the DICOM 3.0 interface to support print, store and work list functions.	M		
20.11	A written DICOM 3.0 conformance statement with detail technical description of the system shall be provided to confirm the DICOM functionality on offer.	M		
21.0	Integration with Radiology Information System (RIS) Tenderers are responsible for the integration of the system on offer with the RIS with the following features:-	M		
21.1	Retrieval of all patient data from RIS server via the PACS vendor.	M		
21.2	Pre-fetching of patient data for automatic modality work list.	M		
21.3	Tenderers shall provide a detailed proposal for the RIS integration with specifications for the system on offer for user's consideration.	M		
21.4	All necessary data ports, cables, trunking and interface for RIS system will be provided by CUMC. Successful Tenderer shall provide necessary software and assist CUMC IT team for system integration.	M		
21.5	Tenderers shall specify any pre-requisition on the RIS program for complete RIS integration.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
22.0	System Security			
22.1	The successful Tenderer shall be responsible for the security of the system during off-site diagnosis/remote maintenance. Tenderer shall work with end-user and Information Technology Department of the CUMC in enhancing the system security.	M		
22.2	The successful Tenderer shall be responsible for the on-going support of keeping the virus definitions and security patches for the Operating Systems and related software up-to-date in all Servers, PCs and workstations in the Medical System network. Virus definitions must be updated within 24 hours from the date of release, while security patches must be updated within three months from the date of release.	M		
22.3	The Tenderer shall be responsible for the regular scanning of all servers and PCs in the Medical System network every three months to ensure that they are not infected by virus, worms and spyware including the on-going support of scheduling and verifying the results of the virus scan.	M		
22.4	The Tenderer shall ensure all hardware and software installation free of virus. Contractor shall commit to take full responsibility in restoring the whole system to its normal operation in case the system is infected during maintenance service. This includes the absorption of all cost incurred.	M		
22.5	The Tenderer shall erase the data in the storage devices of the equipment before taking away the equipment for repairing.	M		
22.6	The Tenderer shall perform technical support on-site unless appropriate remote support arrangement is endorsed	M		
22.7	In relation to data security and patient privacy, the successful Tenderer shall sign a “Non-Disclosure Confidentiality Agreement” with the CUMC.	M		
22.8	In case of any security incident relating to the Medical System network, the successful Tenderer shall report immediately to the CUMC management and the IT Centre.	M		
22.9	Confidential data downloaded from the medical system to end-user devices shall be protected by reasonable level of encryption. Confidential data thereafter refers to data including but not limited to identifiable patient information.	M		
22.10	Confidential data stored within the medical systems shall preferably be encrypted.	M		
22.11	Confidential data stored in backup storage shall be encrypted.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
22.12	Confidential data must not be exported for any usage other than clinical care in CUMC.	M		
23.0	Brochures and Technical Data TWO full sets of brochures and technical data necessary for the full installation of the complete equipment including OEM items shall be provided to the CUMC.	M		
24.0	Operational and Maintenance Manuals a. TWO sets of the manufacturer operation manuals (at least one original) b. ONE original copy of maintenance and service manual c. Manuals for all OEM products on offer shall be submitted before or in time with the delivery of the Equipment. The supplied documentation shall be in English and shall contain materials covering:	M		
24.1	Detailed instructions on the proper operation and maintenance procedures for each of the equipment on offer.	M		
24.2	Principles of equipment design and operation.	M		
24.3	Schematics and block diagrams, circuit diagrams down to component level, and wiring diagrams.	M		
24.4	Installation, set up and calibration procedures.	M		
24.5	Maintenance, fault diagnosis instructions and parts replacement instructions.	M		
24.6	Enlarged views of mechanical assemblies.	M		
24.7	Component layouts on printed circuit boards	M		
24.8	Flow charts, program listings, diagnostic parts list, mechanical parts list, electrical and electronic component parts list.	M		
24.9	At least ONE set of electronic copies on CD/DVD of all manuals shall be provided for each unit of imaging systems on offer.	M		
24.10	End users are allowed to make copies of the manuals for training or operational purposes.	M		
25.0	Training			
25.1	Local Operational Training	M		
25.1.1	The successful Tenderer shall provide full local operational training to a minimum of FOUR staff from the CUMC, for not less than ONE week, at no additional charges.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
25.1.2	To be conducted by specialist(s) fully conversant with the operation and design of the equipment.	M		
25.1.3	The duration of the training and syllabus shall be specified and enclosed in the tender submission.	M		
25.1.4	The commencement of the training shall coincide with the completion of installation and commissioning of the system.	M		
25.1.5	Additional on-site application sessions will also be arranged upon the request by users during the first year of operation of the equipment.	M		
25.2	Local Maintenance Training	M		
25.2.1	The successful Tenderer shall provide maintenance training to a minimum of TWO CUMC staff from the Medical Physics Division of the CUMC for the Equipment on offer.	M		
25.2.2	The course shall be conducted by qualified personnel(s) from the factory fully conversant with operation and design of the equipment.	M		
25.2.3	The training shall include techniques in setting up, calibration, trouble shooting, fault diagnosis, preventive maintenance procedures, use of special tools and test instruments. Interpretation and understanding of circuits shall also be included.	M		
26.0	Acceptance Test and Functional Test			
26.1	The complete set of Equipment, including OEM items and peripheral systems, shall be subjected to acceptance test and functional test performed by CUMC representative.	M		
26.2	The CUMC will not conduct acceptance test and functional test until it has received full certification from the successful Tenderer who has conducted its own tests and found that the Equipment meets the specifications in the contract.	M		
26.3	Acceptance test shall include detail specification testing to ensure that every performance meets with the figures as quoted and required by the Tender specification.	M		
26.4	The successful Tenderer may be required to report the performances of all systems on offer. The format of report shall be agreed by the CUMC.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
27.0	Warranty Maintenance and Post Warranty Maintenance			
27.1	The Tenderers shall provide comprehensive maintenance of the equipment, with at least 4 times of preventive maintenance per year, including free of charge replacement of faulty X-ray tube, flat panel detector, or any part thereof, and original equipment manufacturer (OEM) for a period of 12 months commencing from the acceptance date of the Equipment. The Tenderer shall replace faulty parts and provide software upgrade, both schedule and breakdown maintenance service by qualified maintenance personnel.	M		
27.2	Quotation for replacement X-ray tube & flat panel detector.	M		
27.3	Tenderers shall submit a yearly maintenance schedule indicating the number of preventive maintenance services and QC programs required for a satisfactory performance of the Equipment on offer.	M		
27.4	Tenderers shall perform regular and calibration of at least 2 times per year, for the LCD monitors to ensure optimal image viewing conditions. Tenderers shall advise and report to user any suboptimal viewing performance of the LCD monitors detected during the regular check performed during periodic maintenance service or on request.	M		
27.5	Free software and hardware upgrade, related to operation safety, shall be provided during the warranty maintenance period.	M		
27.6	Tenderers shall submit an organization chart or organization description of their maintenance organization with brief notes on the areas of responsibility of each post. Relevant document shall be provided by equipment manufacturer to prove that at least two engineers have received proper factory training and are eligible for providing maintenance service to the Equipment.	M		
27.7	Upon notification by the user of a defect of the Equipment, the Tenderers shall attend to the call within 2 normal working hours. This service shall include all necessary repairs and replacement of parts to restore the Equipment to its normal conditions within 4 hours or such other time agreed.	M		
27.8	The following shall be defined as the normal working hours: a. 8:00 – 18:00 Monday to Friday, excluding public holidays. b. 8:00 – 13:00 Saturday, excluding public holidays.	M		
27.9	The following shall be provided free of overtime charges by the successful Tenderer:	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
27.9.1	All scheduled maintenance and system upgrade.	M		
27.9.2	All maintenance works carried out during normal working hours as defined above.	M		
27.9.3	If Tenderers are notified of the Equipment fault during the defined normal working hours, all repair works carried out even beyond normal working hours shall also be free of overtime charges.	M		
27.10	24-hour emergency on-site service shall be provided upon request.	M		
27.11	Tenderers shall quote the hourly charge rates for service calls outside normal working hours as defined in Clause 27.8.	M		
27.12	Service Report All reports of service (preventive or corrective maintenance) shall be documented and provided to the Endoscopy Centre representative and filed with the Equipment history file. The report shall record information including:	M		
27.12.1	Date and time being notified.	M		
27.12.2	Date and time of on-site arrival.	M		
27.12.3	Description of malfunction and service performed.	M		
27.12.4	Model no./serial no. and location of the Equipment.	M		
27.12.5	Total time spent to repair.	M		
27.12.6	Total time of out of service.	M		
27.12.7	Parts used or replaced.	M		
27.12.8	Description of service performed.	M		
27.13	Up-time Guarantee The successful Tenderer shall guarantee an equipment uptime of not less than 95% of the total normal working hours. If the Supplier fails to achieve an uptime of 95% averaged over each consecutive period of 3 months, the maintenance contractual period shall be extended based on the following table:	M		
27.13.1	% of Equipment Uptime (X)	Extension of Warranty	M	
	$90 \leq X < 95$	1 month		
	$85 \leq X < 90$	2 months		
	$80 \leq X < 85$	3 months		
	Below 80	Further negotiation is required		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
27.14	“Down Time” will be calculated from the time when down system call is received by the supplier to the time of completion of the repair and issue of a service report to the Endoscopy Centre representative, counting only the down time within normal working hours (as referred in Clause 27.8).	M		
27.15	“Down Time” is the time when the Fluoroscopic system is down and not available for patient’s service. It shall not include the time for any scheduled maintenance, system upgrade, and the time when the system is down due to user misuse, negligence.	M		
27.16	Tenderers shall quote 9-year post warranty maintenance service for the Equipment to be considered by Endoscopy Centre.	M		
27.17	Quoted prices for clauses 27.2, 27.11 and 27.16 shall be in exact amount. Annual adjustments with reference to the percentage change in the Consumer Price Index published in the Hong Kong Monthly Digest of Statistics or other basis such as the fluctuation of currency exchange rate will not be considered.	M		
28.0	Support for In-House Maintenance After the warranty period, if CUMC opt to take up maintenance service by itself (in-house maintenance), the successful Tenderer shall observe the following:	M		
28.1	The successful Tenderer shall be responsible to provide and renew all kinds of software toolkits, access codes, passwords, software keys and hardware keys etc. free of charge or at a quoted price in the submission to CUMC for the whole life span of the complete set of Equipment. The quoted price may be used in estimating the total life cycle cost of the Equipment. Such mentioned toolkits, access codes, passwords, software keys, hardware keys etc. shall enable CUMC to carry out all kinds of adjustments and in-depth QA diagnoses, trouble shooting of the Equipment. The application of such software shall be included in the local service training course provided with the offer and subsequent technical support shall also be provided free of charge whenever applicable.	M		

Section B: Equipment Requirements				
Clause	Specification	Type	Yes/No	Details
29.0	Spare Parts and Special Tools			
29.1	Tenderers shall provide a list of recommend spare parts for the Equipment normal operation not less than 10 years from the date of acceptance.	M		
29.2	Tenderers shall state whether spare parts will be kept in Hong Kong. A list of the major spare parts kept in stock shall be submitted. For non-stock items, Tenderers shall state the turn-around time for: <ul style="list-style-type: none"> • Normal air delivery. • Air delivery by the most expeditious means. 	M		
29.3	Tenderers shall submit a price list of special instruments, a complete set of fault diagnosis software package and tools essential for the maintenance of the Equipment. This includes items such as special test jig, special signal simulators, phantoms, special types of spanners/screw driver, etc.	M		
29.4	Provision of special tools including software and hardware keys and comprehensive diagnostic software for fault diagnosis, trouble shooting and quality assurance.	M		
29.5	If the offered equipment has any protections such as special toolkits, access codes, passwords, software keys, hardware key etc., the successful tenderer shall be responsible to provide such software and hardware, free of charge or at a quoted price in the tender submission for the whole lifespan of the equipment on offer to the Hospital. The quoted price may be used at estimating the total life cycle cost of the equipment.	M		

– END OF SECTION B –

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
1.0	Installation and Delivery Requirement			
1.1	The Occupation Permit (OP) for CUMC shall be issued in January 2020 tentatively. The Equipment delivery date will be given by CUMC about 3 months prior to the delivery depending on the completion date of the construction.	M		
1.2	The successful Tenderer shall propose a project schedule detailing the expected delivery and installation time for CUMC's approval.	M		
1.3	The successful Tenderer shall deliver the Equipment according to the schedule given by CUMC.	M		
1.4	Tenderers are strongly advised, prior to the submission, to acquaint themselves with the condition of the installation site, equipment delivery route and site boundary etc.	M		
1.5	Tenderers shall specify in their submissions, the conditions of delivery, such as packing and necessary environmental requirements.	M		
1.6	Tenderers shall be responsible for the transportation of the Equipment to the installation site. They shall confirm with CUMC that the route of delivery to the installation site is of sufficient width, height and floor loading etc. for the passage of the Equipment.	M		
1.7	Tenderers shall submit the following detailed information:	M		
1.7.1	Proposed supporting system e.g. I-beam, with dimensions, locations and mounting methods.	M		
1.7.2	Mounting details of various components.	M		
1.7.3	Weight distribution of the Fluoroscopic system and each of its components.	M		
1.7.4	Heat dissipation of various components and required locations of air-conditioning outlets etc.	M		
1.7.5	Locations and wiring diagrams for all electrical fixtures including and not limited to emergency stop buttons, radiation warning lights, power sockets and lighting distribution etc.	M		
1.7.6	The proposed equipment layout drawings and elevation drawings for all the equipment on offer including accessories and fixtures such as storage cabinets, emergency cut off buttons and radiation warning lights etc.	M		
1.7.7	A drawing of the delivery route shall be submitted.	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
1.8	<p>Tenderers must confirm and highlight the incompatibility and/or inadequacy in the builder's work and building services provisions to be provided by the CUMC, which will be modified/improved by the Tenderer (subject to CUMC's approval) at their own cost for proper and safe installation and operation of their Equipment.</p> <p>In this respect, Tenderers shall check all the architectural and building services provision such as room space, ceiling height, ceiling and floor loading, main supply current rating, air-conditioning capacity and water supply etc. as detailed in the composite drawings.</p>	M		
1.9	Any amendments, additions, omissions and modifications of existing works shall be carried out by the successful Tenderer and such cost shall deem have been included in the sum.	M		
1.10	The successful Tenderer is required to attend meeting with CUMC staff, contractor(s) appointed by CUMC and image network supplier for discussion on all details related to data transfer of the Fluoroscopic system. The successful Tenderer shall coordinate and work with the image network supplier on the installation and data transfer of the Equipment.	M		
1.11	Regular bi-weekly progress report about installation shall be submitted to CUMC.	M		
1.12	No temporary storage space for any equipment shall be available within the construction site before the completion date. If any item arrives earlier than the agreed delivery schedule, the successful Tenderer shall be responsible for the storage of the item.	M		
1.13	The successful Tenderer shall be responsible to clear away all packing materials, demolished and unused structural materials to a legal place after the delivery/installation of the Equipment.	M		
1.14	The successful Tenderer shall note that they shall be responsible for any damage to CUMC property or that of the main contractor as may be caused during the Equipment delivery and installation.	M		
1.15	Should any alterations or modifications of CUMC properties be required to facilitate the delivery, prior approval shall be sought. It is the successful Tenderer's responsibility to restore all altered or modified structures to their original states after the delivery.	M		
1.16	If due to tight schedule or other reasons that CUMC requires the successful Tenderer to work at night time or some other specified time, the successful Tenderer shall be prepared to do so at no additional cost.	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
1.17	Where applicable, the successful Tenderer shall be responsible for connecting the Equipment to the corresponding infrastructure services provided. Any revision or addition work on the infrastructure services provided shall also be the responsibility of the successful Tenderer subject to such work be approved by CUMC.	M		
1.18	The successful Tenderer shall make good the site upon completion of Equipment installation, remove and dispose of all other waste materials resulting from the installation of the Equipment and the building works involved.	M		
1.19	The successful Tenderer shall complete installation of the Equipment within 2 months after the delivery.	M		
1.20	The successful Tenderer shall observe all statutory requirements regarding safety.	M		
1.21	The successful Tenderer shall provide insurance to cover accidental damages to the Equipment during the period of delivery, site storage, installation, testing and commissioning.	M		
2.0	Building Services and Builder Works Provisions			
2.1	The successful Tenderer shall be responsible to supply, design, delivery, install, testing and commissioning of the Equipment in the following sites: a. ERCP Fluoroscopy System Exam Room (examination room) b. ERCP Fluoroscopy System Control Room (control room) (refer to the Appendix I, yellow shaded area).	M		
2.2	Tenderers must confirm and highlight the incompatibility and/or inadequacy in the builder's work and building services provisions to be provided by the CUMC, which will be modified/improved by the Tenderer (subject to CUMC's approval) at their own cost for proper and safe installation and operation of their Equipment. In this respect, Tenderers shall check all the architectural and building services provision such as room space, ceiling height, ceiling and floor loading, main supply current rating, air-conditioning capacity and water supply etc. as detailed in the composite drawings.	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
2.3	Builder's and building service works provisions by the building's contractor and interfacing arrangement as shown on the composite drawings should be reviewed and confirmed by the successful Tenderer prior to their execution on site.	M		
2.4	Additional builder's (including but not limit to temporary wall/floor opening for delivery) and builder service works requirements other than those shown in the composite drawings should be raised out by the successful Tenderer at least 8 weeks before the construction of that particular floor, for concerned parties' review and site coordination.	M		
2.5	All the builder's and builder service works prepared by the Tenderers shall include one year defect liability period which will commence upon satisfactory completion of the work and certification by the CUMC.	M		
2.6	Successful Tenderer shall be responsible for the design, provision and installation of all builder's and builder service works which are required for the proper and safe installation and operation of all the equipment on offer.	M		
2.7	Environmental Room Conditions Details of the environmental room conditions provided by CUMC are specified on the composite drawing. successful Tenderer shall check across whether these figures (e.g. noise level, room temperature, humidity, illumination level etc.) are optimal for the proper operation of the Fluoroscopic system on offer.	M		
2.8	Builder's Works	M		
2.8.1	Successful Tenderer shall be responsible for any floor/ceiling loading reinforcement work inside examination room required for the installation of the imaging system and accessories.	M		
2.8.2	Design and build the ceiling support structure steel frame of the Fluoroscopic system in the examination room.	M		
2.8.3	Design and build the internal finishes, including floor, wall, ceiling finishes, sunken backfill and etc. in examination and control rooms.	M		
2.8.4	The successful Tenderer shall be responsible for cover up all cable containments (trunking and junction boxes).	M		
2.8.5	Provision and installation of recessed floor cables trunkings with steel plate.	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
2.8.6	The successful Tenderer shall provide floor finishing and perform light weight concrete pouring work for the examination room after the installation of recessed floor cable trunkings.	M		
2.8.7	Cable connection between the examination and control rooms.	M		
2.8.8	Connection and necessary wiring of the radiation warning lights at all entrances of the examination room with corresponding X-ray control units for synchronization of the warning with X-ray exposure.	M		
2.8.9	Any necessary connections and all associated fitting/wiring work shall be provided by the successful Tenderer.	M		
2.8.10	All wall, false ceiling panel cut off, pipe sleeve, sealing and made good shall be designed, provided and installed by successful Tenderer.	M		
2.9	Building Services Works	M		
2.9.1	The successful Tenderer shall be responsible to supply and install all required material, fittings, cables, pipework, ductwork etc. for connecting the Equipment to the corresponding building services provision by CUMC main contractor as shown on the composite drawings. Any revision or addition work on the building services provision shall be responsible by the successful Tenderer subject to such work to be approved by CUMC.	M		
2.9.2	Provision of cable containment (including floor trunking), conduit with wiring for socket outlet, exit sign, lighting design and installation including lighting control circuitry and dimming function in examination, control and equipment rooms.	M		
2.9.3	Electrical power supply for the Fluoroscopic system Main power supply, 250A TP&N (Essential) isolator, will be provided by CUMC. Successful Tenderer shall work with main contractor to confirm the exact location of the 250A isolator (Essential) for the system installation.	M		
2.9.4	13Amp wall power outlet 13Amp wall power outlets will be provided by CUMC. Should 13Amp power socket has to be utilized for system/accessories, the Successful Tenderer shall confirm the quantity and location of power socket required for CUMC's approval.	M		
2.9.5	All final connection from isolation/gate valves and capped-off points to the Equipment shall be provided and installed by Successful Tenderer.	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
2.9.6	<p>HVAC</p> <p>Successful Tenderer shall confirm with CUMC contractor that HVAC system is optimal for the proper operation of the Fluoroscopic system.</p>	M		
2.9.7	<p>Cooling and Ventilation Systems</p> <p>Tenderers shall provide local cooling system, ventilation system in examination and control rooms.</p> <p>a. Provision of back-up air conditioning system, if required, to cope with the heat loading requirement for the proper operation of the Fluoroscopic system.</p> <p>b. All fan coils / Split types air conditioning system and the associated piping shall NOT be installed directly above the Fluoroscopy system, its computer cabinets and other computer workstations. All installed fan coil units shall be accessible for maintenance services.</p> <p>c. Provision of all necessary cooling unit(s) for Fluoroscopic System including independent chiller system, if any, shall be provided to keep the Fluoroscopic system under optimum working ambient condition.</p>	M		
2.9.8	<p>Lighting System</p> <p>a. Lighting design and installation including lighting control circuitry and dimming function and etc.</p> <p>b. Down lights with dimmer controls shall be provided and installed inside the examination room near the examination table according to the requirements of the end-users.</p> <p>c. Down lights with dimmer controls shall be provided and installed inside the control room according to the requirements of the end-users.</p>	M		
2.9.9	<p>Fire Services Installation</p> <p>Successful Tenderer shall collaborate with the CUMC's main contractor to check the details and conditions of the fire services.</p>	M		
2.9.10	<p>Door interlock system</p> <p>Trunking and/or conduit and connection point for door interlock system will be provided by CUMC. Successful Tenderer shall coordinate with CUMC contractor to install and interface the door interlock system with the Fluoroscopic system.</p>	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
2.9.11	“X-ray in use” indicator light Trunking and/or conduit and connection point for X-ray in use indicator light will be provided by CUMC. Successful Tenderer shall coordinate with CUMC contractor to interface the X-ray in use indicator light with the Fluoroscopic system.	M		
2.9.12	Emergency stop button Trunking and/or conduit and connection point for emergency stop buttons will be provided by CUMC. Successful Tenderer shall coordinate with CUMC contractor to install and connect the emergency stop buttons with the Fluoroscopy system. Exact location of these emergency stop buttons shall be proposed in drawing for user’s approval.	M		
2.9.13	Intercom System Trunking and/or conduit and connection points for intercom system will be provided by CUMC. Successful Tenderer shall coordinate with CUMC contractor to identify the proper installation location of the intercom system.	M		
2.9.14	AV System Successful Tenderer shall design and install local AV system including mic and speaker system.	M		
2.9.15	PACS Data Ports PACS data ports will be provided by CUMC. Successful Tenderer shall confirm the number and location of the data ports with CUMC contractor to ensure the proper connection of the Fluoroscopy system with the PACS system.	M		
2.9.16	Any Building Services works not specifically mentioned in this Specification but are deemed essential for proper functioning and operation of the Equipment shall form part of the scope of this tender.	M		
2.10	Fitting and Furniture	M		
2.10.1	TWO sets of 100cm x 220cm x 40cm Angio consumable storage cabinets shall be provided. Product catalog shall be provided for the endoscopy center’s consideration.	M		
2.10.2	ONE worktop with storage cabinets to be provided and installed inside examination room.	M		
2.10.3	ONE worktop with storage cabinets to be provided and installed inside control room.	M		
2.10.4	Worktop for control panel in control room.	M		

Section C: Delivery, Installation and Other Requirements

Clause	Specification	Type	Yes/No	Details
2.10.5	Successful Tenderer shall submit the material used, drawing of the designs and dimension of the fitting and furniture for users' approval before installation.	M		
3.0	Compliance to Building Services Requirements The successful Tenderer shall observe all the following building services requirements for their installation works:	M		
3.1	All electrical works shall be carried out by registered electrical workers in accordance with the standards of materials and workmanship as mentioned in the Specification.	M		
3.2	All building services works including conduits, junction boxes, cables and pipe works etc. shall be concealed and no surface mounting will be permitted unless otherwise so agreed. Proper radiation protection such as lead lining where applicable shall comply with the latest requirement of ICRP and shall be included, provided and installed by the successful Tenderer.	M		
3.3	All materials and workmanship shall comply with the latest editions of General Specification for Electrical Installation in Government Building of HKSAR, other relevant General Specification by Building Services Branch ArchSD, Code of Practice for Electricity (Wiring) Regulations by the Electrical & Mechanical Services Department and Supply Rules of the Electrical Supply Authority as relevant, and shall be approved by CUMC prior to the installation.	M		
3.4	All works shall comply with Building Ordinance Cap. 123 of Hong Kong Law and other related Legislations.	M		
3.5	All works related to the alternation of Fire Services installation, if applicable, shall comply with the latest edition of Code of Practice for Minimum Fire Services Installations and Equipment, Inspection and Testing of installations and Equipment and the standard set by the Loss Prevention Council.	M		
3.6	On completion, all builder's and building services prepared by successful Tenderer shall be subjected to acceptance and safety tests conducted by the CUMC representative.	M		
3.7	The successful Tenderer's contractor shall provide 2 sets of as-built drawings in AutoCAD/PDF format regarding all room layout design and installations.	M		
3.8	All drawings and calculations shall be submitted and certified by an authorized person under Buildings Ordinance.	M		

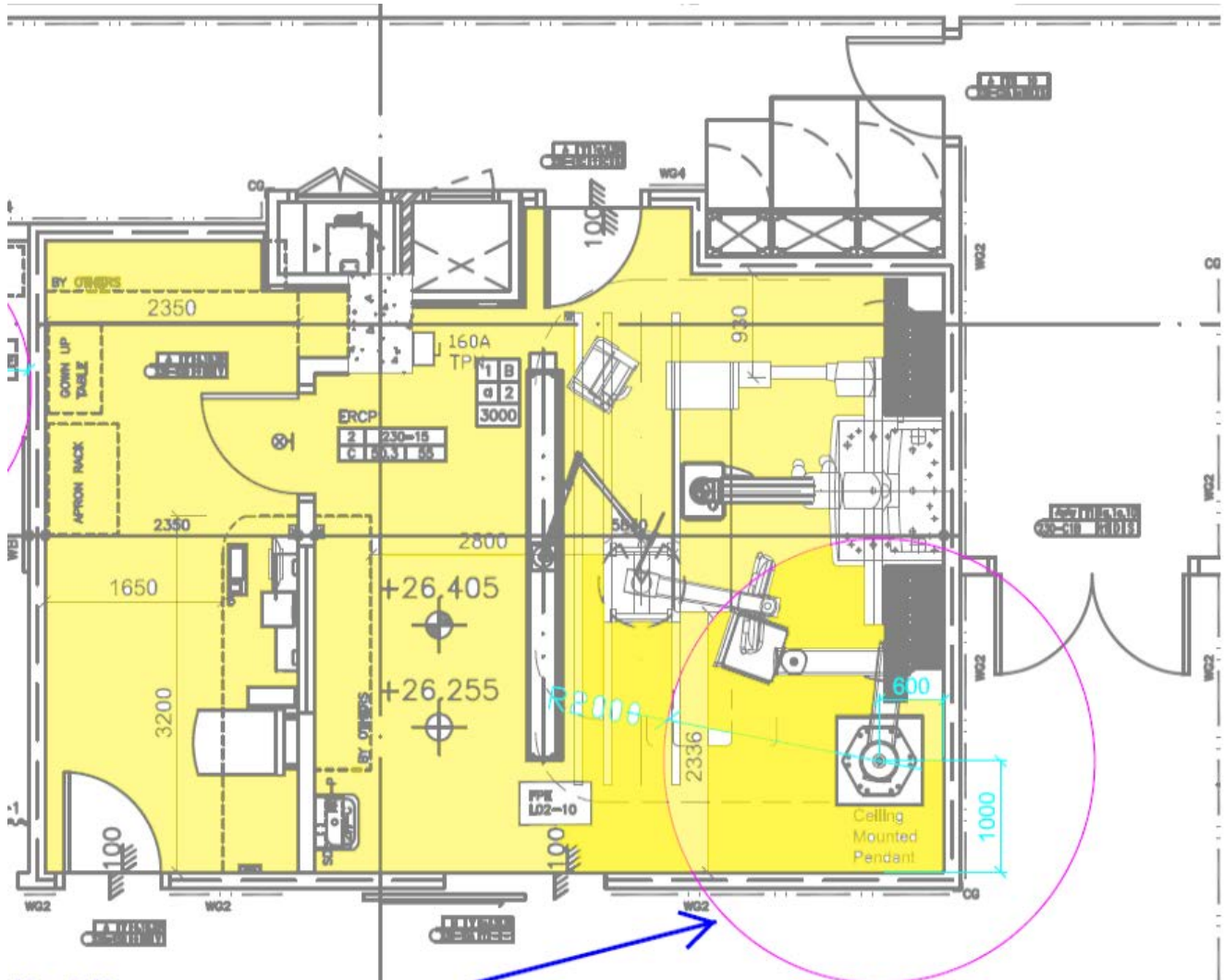
Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
4.0	Insurance Coverage, Occupational Safety and Health			
4.1	The successful Tenderer shall be responsible for the purchase of insurance coverage against any liability for personal injury, loss of life, damage to property and equipment etc. occurred as a result of or related to the work carried out by the contractor or its representatives, which include site preparation and construction work and equipment delivery, installation and testing.	M		
4.2	The successful Tenderer shall take all reasonable steps to ensure the occupational safety and health at workplace for all its employees in performing their works related as specified in their submission.	M		
4.3	The successful Tenderer shall fully indemnify CUMC from and against any claims, actions, proceedings, demands and suits brought against and/or fines and penalties imposed on CUMC arising directly or indirectly out of or in connection with the failure of the contractor to comply with any applicable statutory requirements including the Occupational Safety and Health Ordinance.	M		
4.4	24-hour emergency contact person must be provided to Endoscopy Centre and CUMC Administration. The person must be at managerial level of this submission.	M		
5.0	Technology Substitution/ Advancement			
5.1	Tenderers shall propose in their submission any mean pertaining to technology advancement to improve the workflow and performance of the Equipment for Endoscopy Centre user's consideration.	M		
5.2	The successful Tenderer shall propose an upgrade solution for CUMC, including hardware and software and all other major systems, to ensure non-obsolescence of the Fluoroscopic system.	M		
5.3	The CUMC may at any time before delivery and at its sole discretion elect to obtain from the supplier any units of equipment in substitution where the substitute unit contain new technology or have performance characteristics similar to or better than the unit of equipment on offer. In the event that the CUMC elects to obtain the substitute unit of equipment from the supplier, the provisions of this contract shall apply to such substitute units.	M		

Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
5.4	Tenderers shall ensure the non-obsolescence of the system on offer. Length of non-obsolescence period of the system shall be specified.	M		
6.0	IT Provision			
6.1	Tenderers are required to propose the implementation approach and methodology for CUMC’s consideration. Successful Tenderer should also provide detailed description of the proposed IT solution including architecture design, hardware, software, custom programs etc. Successful Tenderer should also provide proposed implementation plan and timeline including major milestones.	M		
6.2	The proposed IT solution must include the itemized breakdown cost of the overall server hardware infrastructure and any necessary third-party server license, such as the server operating system, server, network equipment, database server and virtual machine license, if applicable, as optional hardware and software. CUMC reserves the right to acquire any hardware infrastructure equipment and proposed third-party licenses through our own deemed necessary.	M		
6.3	The Fluoroscopic system shall support and comply with all requirements described in “CUMC IT Security Requirements”, which can be found in Appendix III. Successful Tenderer shall review the document thoroughly, and then fill out the “Security Requirements Compliance Table” near the end of the document accordingly on return.	M		
6.4	For the integration with Hospital Information System (HIS), all the requirements specified in the Methodology & Message Standard of Hospital Information System Integration must be complied. Details please refer to Appendix IV.	M		
7.0	Supporting Documents			
7.1	Tenderers shall ensure that the Equipment manufacturer of the Fluoroscopic system can meet international standards ISO 9001 and ISO 13485.	M		
7.2	The Fluoroscopic system shall obtain FDA approval or CE certification.	M		
7.3	Tenderers shall provide details or features of their offers which can improve the workflow or image quality, etc.	M		

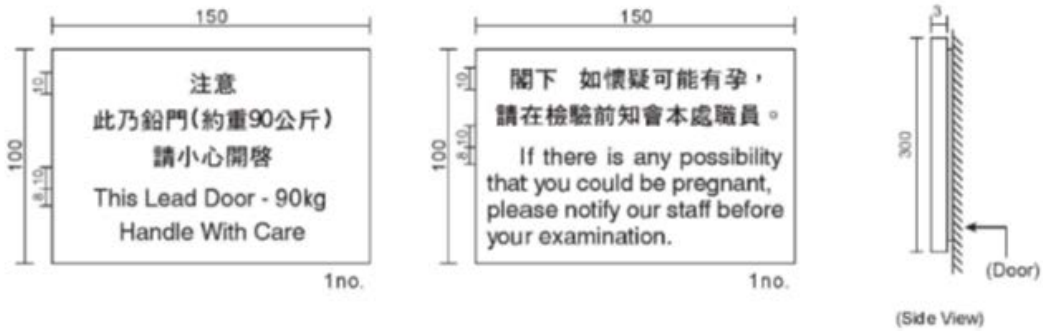
Section C: Delivery, Installation and Other Requirements				
Clause	Specification	Type	Yes/No	Details
7.4	Tenderers shall provide the following documentary evidence to demonstrate the stability and maturity of the Fluoroscopic system:	M		
7.4.1	The offer must have track record in clinical installation sites for at least 12 months. Tenderers shall provide the details such as installation date and location.	M		
7.4.2	The number of clinical sites in Hong Kong currently using such Fluoroscopic system shall be stated.	M		
7.4.3	A description of the local support services.	M		
7.4.4	Profiles of local support staff in respect to their experience in technical and user support of the proposed Fluoroscopic system.	M		
7.5	Any information which the Tenderers consider relevant.	M		

– END OF SECTION C –

Floor Plan of the Installation Site

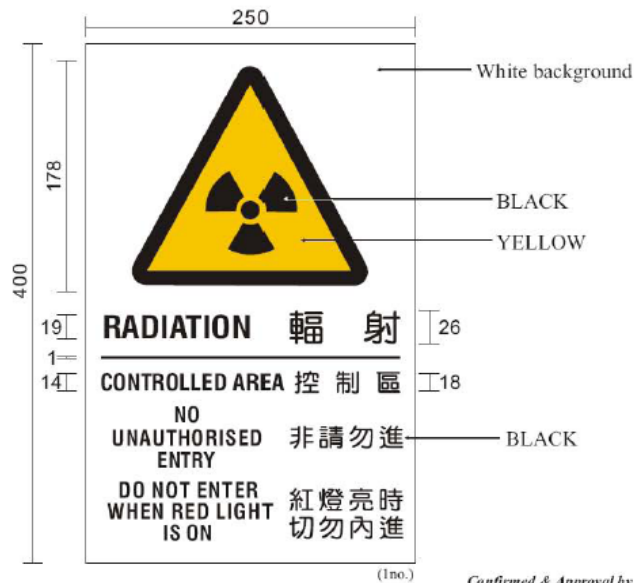


Warning Signage



Note:
3mm thk matt clear acrylic plate with reversed silk screen message in black colour on white background.

Confirmed & Approval by _____
Date _____



Note:
6mm thk clear acrylic plate w/ reversed silk screen printing
logo in BLACK & YELLOW colour, message in BLACK colour on WHITE background.

Confirmed & Approval by _____
Date _____

Note:
3mm thk matt clear acrylic plate with reversed silk screen message in black colour on white background.

Confirmed & Approval by _____
Date _____

CUMC IT Security Requirements

[Link to document](#)

**Highlights for Methodology & Message Standard
of Hospital Information System Integration**

[Link to document](#)

3 Total Life Cycle Cost

The total life cycle cost shall be included in the calculation of the Price Score. For each of the item offered in Schedule 4 – Price, the tenderer is required to provide a detailed equipment calculation/projection of the Total Life Cycle Cost for each unit of equipment. The Total Life Cycle Cost shall be fully comprehensive and without hidden costs.

4 Post Warranty and Maintenance Service

- 4.1 The tenderer shall refer to the Conditions of Contract on the detailed requirement of Guarantee and Warranty.
- 4.2 The tenderer should quote in Schedule 4 - Price the whole annual post warranty maintenance services costs of the offered product commencing from the expiry of the Warranty Period. The post warranty maintenance services costs inclusive of charges of labour, regular calibrations, preventive maintenance (PM), corrective maintenance (CM), all spare parts and minor parts/components. The CUMC will include the post warranty maintenance services costs for Total Life Cycle cost evaluation. If Tenderer fail to quote such services costs for evaluation, the CUMC will treat such Tender as an incomplete offer. Tender with incomplete offer quoted in the Tenderer's Schedule will not be considered.
- 4.3 The annual post warranty maintenance services costs must be quoted in a dollar value and for each unit of the equipment. Any quotation submitted in a value equivalent to a percent of the equipment cost being quoted in the Price Schedule or a lump sum value is not allowed.
- 4.4 The CUMC may at its option enter into the post warranty maintenance services contract with the Tenderer for the duration at the CUMC's discretion.

5 Accessories/Components

- 5.1 The price(s) quoted for the item(s) in Schedule 4 - Price shall include all accessories/components for each unit of equipment per annum which is/are essential to the normal operation of the item(s).
- 5.2 The tenderer shall quote the optional accessories/components with itemized prices for each unit of equipment per annum in Schedule 4 – Price for evaluation.

6 Operational Training

The tenderer is required to provide free of charge operational training to operators/users. The operational training shall be designed to enable the operators/users to use the Goods safely, effectively and properly in all aspects. Tenderer shall specify in the Schedule of Compliance the type of operational training to be provided.

7 Service Training

The tenderer is required to provide training on basic servicing of the Goods on-site for all service personnel who would normally be expected to service the equipment. A list of topics covered in the training shall be submitted in the Tender. Tenderer shall specify in the Schedule of Compliance the type of service training to be provided.

8 Submission of Tender

8.1 Two-Envelope Bidding

- a. This Tender shall be conducted in a two-envelope bidding process. Tenderer must submit the technical and price information in two separate sealed envelopes, one marked with the word “Technical Proposal” and the other with “Price Proposal” in the following manner:
 - Technical Proposal: contains the complete set of Tender documents **EXCEPT** Schedule 4 - Price and all supplementing quotations.
 - Price Proposal: contains the Schedule 4 - Price and all supplementing quotations.
- b. The CUMC will complete the technical assessment first by evaluating the technical proposal of the Tender according to the Requirements and Specifications and Document (if required). The price proposals of those Tender which can pass technical assessment will be evaluated further based on the price proposal.
- c. The CUMC will not accept the Tender proposals if the Tenderer fail to submit the technical & price proposal in two separate sealed envelopes.

8.2 Interested Tenderer must provide the following information in their tender submission:

a. Schedule 1: Company/Organisation Profile

Tenderer must provide the following details to the CUMC:

- Name and address of the company/business organisation.
- Length and nature of business experience including without limitation experience in the performance and /or supply of the products.
- A copy of its Articles of Association or other documents evidencing its business statuses.
- Copies of current business registration certificate
- Copies of all current licence(s) or permit(s) issued in favour of the Tenderer by the relevant authorities that are required to legally perform and or supply the products.
- Documentary evidence of any agency claimed by the Tenderer in relation to the Tender, whether on a sole or exclusive basis or otherwise.
- Relevant experience in local and overseas market in providing the products and or services in relation to the Tender.
- The organisational structure of on-site installation team of equipment and phone number of contact persons.
- If the Tenderer wishes to fulfil its obligations under this proposal through subcontracting or partnership with third parties, details including name of the subcontracting or partnership organisation and responsibilities should be stated;

b. **Schedule 2: Overall Design Layout Proposal**

The Tenderer should submit a layout proposal for Radiographic/Fluoroscopic System and other optional equipment and furniture for the future full functioned Endoscopy Centre, Level 2, CUMC, Shatin Town Lot No. 437. The layout proposal should include the following:

- The equipment drawings for the floor area where the Equipment will be installed as well as the network layout drawings for areas involved as required in clause 1.10 of Section A of Tender Specifications.
- A detailed proposal on how the Radiographic/Fluoroscopic System (including the Equipment) and image workstations can be connected to the Picture Archiving and Communication System (PACS), Radiology Information System (RIS) and Hospital Information System (HIS) of CUMC to achieve an effective and efficient digital image/ data exchange as required in clause 2.1 of Section A of Tender Specifications.
- A delivery and installation project schedule detailing the expected period of various stages of installation for the delivery date as required in clause 1.1 of Section C of Tender Specifications.

The layout should be in scale of measurements. The staff flow, material flow and logistics flow should be indicated clearly.

c. **Schedule 3: Schedule of Compliance**

The Tenderer should indicate the compliance of the specifications point-by-point for the Part VI. If Tenderer wish to include counter-proposal in their Tender reply, the CUMC reserves the right to accept or reject any such offer. TWO set of brochures and technical data necessary for the full installation of each complete set of equipment including OEM items shall be provided as required in clause 23 of Section B of Tender Specifications.

d. **Schedule 4: Price**

The price proposal should consist of the following areas:

- Equipment, including installation, site preparation and building services
- Accessories items
- Post-warranty comprehensive maintenance services (2nd to 10th year)
- Total Tendered Sum
- Optional: Replacement of X-ray tube and Digital Image Detector

e. **Schedule 5: Duly completed and signed Consent to Disclosure**

f. **Schedule 6: Duly completed and signed Non-Collusion Certificate**

g. **Schedule 7: Duly completed and signed Personal Data Privacy (Amendment)**

h. **Offer To Be Bound**

The offer without full submission of the above will not be considered.

9 Selection Criteria

9.1 A marking scheme with weighting of 60% on Technical Assessment and 40% on Price Assessment will be adopted. Scoring distribution is as follows:

Selection Criteria	Weighting
Technical Assessment	60%
(a) Scoring of the marking scheme: i. The Tender specifications are classified into mandatory (M) and desirable (D) requirements. Only those offers meeting all mandatory requirements will be considered. A marking scheme will be applied. ii. The desirable requirements scoring of the Tender specifications are calculated as follows: $30 \times \frac{\text{No. of complied desirable requirements}}{\text{Total no. of desirable requirements}}$	30%
(b) Proven experience and track records in similar project for healthcare organizations in Hong Kong.	15%
(c) Design of the examination and control rooms layout plans.	10%
(d) Proven qualification and experience of maintenance service personnel.	5%
Price Assessment	40%

9.2 Technical Assessment

Any offer which scores less than 30 marks in the Technical Assessment will be considered disqualified and shall not proceed to Price Assessment.

9.3 Price Assessment

The price assessment is calculated as follows:

$$40 \times \frac{\text{Lowest tender price among the conforming tenders}}{\text{Tender price of the tender being assessed}}$$

9.4 The offer obtained the highest combined score, i.e. technical score plus price score, would be recommended for acceptance.

Part VII
Schedule of Submissions
Schedule 1: Company/Organisation Profile

The Tenderer must provide the following details to the CUMC:

- 1 Name and address of the company/business organisation.
- 2 Length and nature of business experience including without limitation experience in the performance and /or supply of the products.
- 3 A copy of its Articles of Association or other documents evidencing its business status.
- 4 Copies of current business registration certificate
- 5 Copies of all current licence(s) or permit(s) issued in favour of the Tenderer by the relevant authorities that are required to legally perform and or supply the products.
- 6 Documentary evidence of any agency claimed by the Tenderer in relation to the Tender, whether on a sole or exclusive basis or otherwise.
- 7 Relevant experience in local and overseas market in providing the products and or services in relation to the Tender.
- 8 The organisational structure of on-site installation team of equipment and phone number of contact persons.
- 9 If the Tenderer wishes to fulfil its obligations under this proposal through subcontracting or partnership with third parties, details including name of the subcontracting or partnership organisation and responsibilities should be stated.

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Schedule 2: Overall Design Layout Proposal

The tenderer should refer to Appendix I* and submit a layout proposal for Radiographic/Fluoroscopic System and other optional equipment and furniture for the future full functioned Endoscopy Centre, Level 2, CUMC, Shatin Town Lot No. 437. The layout proposal should include the following:

- The equipment drawings for the floor area where the Equipment will be installed as well as the network layout drawings for areas involved as required in clause 1.10 of Section A of Tender Specifications.
- A detailed proposal on how the Radiographic/Fluoroscopic System (including the Equipment) and image workstations can be connected to the Picture Archiving and Communication System (PACS), Radiology Information System (RIS) and Hospital Information System (HIS) of CUMC to achieve an effective and efficient digital image/data exchange as required in clause 2.1 of Section A of Tender Specifications.
- A delivery and installation project schedule detailing the expected period of various stages of installation for the delivery date as required in clause 1.1 of Section C of Tender Specifications.

The layout should be in scale of measurements. The staff flow, material flow and logistics flow should be indicated clearly.

* Please note that the layout drawings in CAD format are available for viewing after signing a Confidentiality Non-Disclosure Agreement with CUMC, please contact CUMC at procurement@cuhkmc.hk.

The tenderer should take note that the layout plans are still subject to amendment due to site constraints and/or statutory approval requirements during the course of construction.

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Schedule 3: Schedule of Compliance

The tenderer shall provide without any omission the following information in respect of their offer.

1 Statement of Compliance

I/we provide point-by-point comparison between the Tender specifications and the specifications of the offered product in the space provided in the Tender Specification.

2 Validity Period

Our/My offer remain valid for a period of **120 days** from the closing date of this Tender.

3 Particulars of Offer

- 3.1 Country of Origin: _____
(Substantial place of manufacture of goods)
- 3.2 Name of Manufacturer: _____
(Name of manufacturing facility/site of offered goods)
- 3.3 Address of Manufacturer: _____
(Address of manufacturing facility/site of offered goods)
- 3.4 Relationship between
Tenderer and Manufacturer: _____
(Please fill in _____ as appropriate)

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

4 Medical Device Administrative Control System (“MDACS”)

I/We confirm that I/we are willing to participate in the Medical Device Administrative Control System (“MDACS”) under the Department of Health (“DH”), the Government of the HKSAR.

- 4.1 () The products offered have been already listed under the MDACS with details as follows:
 - i. Listing number issued by the DH: _____
 - ii. Listed Global Medical Device Nomenclature description and Code:

 - iii. Manufacturer (Make), Brand and Model: as given in Paragraph 3 above
- 4.2 () The products offered will be listed under the MDACS by _____ (date).
- 4.3 () The products offered will be listed under the MDACS according to the registration schedule of DH.
(Please put a tick in () and fill in _____ as appropriate)

5 Life Expectancy

- () The offered product(s) is/are expected to have a normal life span of **10** years.
- () The offered product(s) is/are expected to have a normal life span of _____ years.
(Please put a tick in () and fill in _____ as appropriate)

6 Warranty and Maintenance Service

- 6.1 Warranty Period
_____ months from date of acceptance of goods.
- 6.2 No. of preventive maintenance (PM) service during the warranty period: ____ times per year

Person Authorized to Sign Tender

Name of Company with Company Chop: _____	Name and Title: _____
Telephone: _____	Email: _____
Authorized Signature: _____	Date: _____

6.3 Response time to fault report to carry out corrective maintenance (CM): within_____ hours.

Name of maintenance personnel: _____

Contact telephone number: _____

6.4 The annual post warranty maintenance services costs of the products for the first 9 years commencing from the expiry of the Warranty Period.

All-inclusive comprehensive post warranty maintenance services costs inclusive of charges for labour, microbiological tests, regular calibrations, preventive maintenance (PM), corrective maintenance (CM), all spare parts and minor parts/components.

7 Accessories/Components

7.1 I/We confirm that the Tender price(s) quoted in Table 2 include all accessories/components which are essential to the normal operation of the product.

7.2. Itemized price list for the essential accessories/components is attached in Schedule 4 - Price.

8 Training

I/We confirm that the following trainings will be provided to the CUMC Representatives.

Operational Training: () Local briefing upon request.

() Formal local training (course outline attached).

Service Training: () Local training upon request.

() Formal local training (course outline attached).

(Please put a tick in () as appropriate)

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

9 Ordinances Concerning Product Safety

I/We confirm that:

9.1 Licence(s) for the provision of the offered product:

() is required for Hong Kong Ordinance.

() is not required.

9.2 Test certificate/report for the provision of the offered product is required and a copy of which:

() is attached.

() will be completed and submitted during acceptance of goods.

9.3 () Test certificate/report for the provision of the offered product is not required.

9.4 The CUMC is required/is not required to maintain the license(s)/test certificate(s) for the possession or use of the offered product.

(Please put a tick in () as appropriate)

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Schedule 4: Price (To be submitted separately in the envelope of the Price Proposal)

The price proposal should consist of the following areas:

- 1 Supply and Installation of 1 set of Radiographic/Fluoroscopic System (Please complete Table 1).
- 2 Accessories Items (Please complete Table 2).
- 3 Post-warranty Comprehensive Maintenance Services – 2nd to 10th year (Please complete Table 3).
- 4 Optional: Replacement of X-ray tube and Digital Image Detector (Please complete Table 4).

The tenderer must provide the breakdown of the cost to the tables. The **Total Tendered Sum** should align.

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Table 1
(Price of the Equipment)

Item No.	Description	Manufacturer	Brand	Model	F.I.S./Hong Kong Price Including Installation	
					Unit Price (HK\$)	Total Amount (HK\$)
1	Supply and Installation of 1 set of Radiographic/Fluoroscopic System, including site preparation and building services					
Total (HK\$) :						

Person Authorized to Sign Tender

Name of Company with Company Chop: _____ Name and Title: _____

Telephone: _____ Email: _____

Authorized Signature: _____ Date: _____

Table 2
(Accessory Items)

Item No.	Clause (Section B of Part VI)	Description	Quantity	F.I.S./Hong Kong Price Including Installation	
				Unit Price (HK\$)	Total Amount (HK\$)
1	8.15.1	Fluoroscopy QA tools (Leads Test Objects: SFS Set)	1 set		
2	8.15.2	Dynamic range test tools (Leads Test Objects: TO DR (4-piece) Set)	1 set		
				Total (HK\$):	

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Table 3
(Price of Post-Warranty Comprehensive Maintenance Services)

The annual post warranty maintenance services costs of the products for the first 9 years commencing from the expiry of the Warranty Period:

All-inclusive comprehensive post warranty maintenance services costs inclusive of charges for labour, regular calibrations, preventive maintenance (PM), corrective maintenance (CM), all spare parts and minor parts/components:

Description	Comprehensive Maintenance Services Costs Per Unit Per Annum (HK\$)									
	1 st year	2 nd year	3 rd year	4 th year	5 th year	6 th year	7 th year	8 th year	9 th year	10 th year
With 4 times of Preventive Maintenance (PM) annually	Free warranty period									
Response time to fault report to carry out CM: within _____ hours.										

Notes:

- 1 Post Warranty Maintenance Cost offered in percentage will not be considered.
- 2 Annual adjustments with reference to the percentage change in the Consumer Price Index published in the Hong Kong Monthly Digest of Statistics or other basis will not be considered.
- 3 The Tenderer is required to attach the breakdown of the Post Warranty Maintenance Cost of each equipment.

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Total Tendered Sum

Table No.	Description	Price (HK\$)
1	Equipment including site preparation and building services (excluding optional items)	
2	Accessory items	
3	Post-warranty comprehensive maintenance services (2 nd to 10 th year)	
Total Amount:		

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Table 4 - Optional
(Price of Replacement of X-Ray Tube and Digital Image Detector)

Item No.	Clause (Section B of Part IV)	Description	Unit Price (HK\$)
1	27.2	X-Ray Tube	
2	27.2	Digital Image Detector	

Person Authorized to Sign Tender

Name of Company with Company Chop:	Name and Title:
Telephone:	Email:
Authorized Signature:	Date:

Schedule 5: Consent to Disclosure

To: CUHK Medical Centre Limited (CUMC)

**Re: Supply and Installation of Radiographic/Fluoroscopic System
for Endoscopy Centre for the CUMC**

We, *[insert the name of the consulting firm]*, hereby irrevocably authorise, consent and agree that if the CUMC agrees to engage us to carry out the : Supply and Installation of Radiographic/Fluoroscopic System for Endoscopy Centre for the CUMC, the CUMC may, whenever it considers appropriate or upon request by any person (written or otherwise) and without any further reference to us, disclose to any person in such form and manner as the CUMC deems fit:

- (a) the fees, costs and expenses payable by the CUMC for engaging us; and
- (b) the fee proposal submitted by us on *[insert the relevant date]*.

We hereby waive and forego our right, if any, to make any claims against the CUMC for any losses, damages, costs, charges, liabilities, demands, proceedings and actions that may arise out of or in consequence of such disclosure by the CUMC.

Dated this _____ day of _____

SIGNED by *[insert the name(s) of the signator(ies)]*, the *[insert the post(s) of the signator(ies)]* of the *[insert the name of the company]* in the presence of : -)
)
)

Signature of Witness
Name of Witness:
Occupation:
Address:

Schedule 6: Certificate of Non-Collusion

I/We certify that this is a bona fide Tender, and that I/we have not fixed or adjusted the amount of the Tender by or under or in accordance with any agreement or arrangements with any other person. I/We also certify that I/we have not done and I/we undertake that I/we will not do at any time before the date of notification of acceptance of this Tender any of the following acts:

- 1 Communicate to any person other than the person calling for those Tender the amount or approximate amount of the proposed Tender, except where the disclosure, in confidence, of the approximate amount of the Tender was necessary to obtain insurance premium quotations required for the preparation of the Tender;
- 2 Enter into agreement or arrangements with any other person that he shall refrain from Tendering or as to the amount of any Tender to be submitted;
- 3 Offer or pay or give or agree to pay or give any sum of money or valuable consideration directly or indirectly to any person for doing or having done in relation to any other Tender or proposed Tender any act or thing of the sort described above.
- 4 In this certificate, the word “person” includes any person and any body or association, corporation or unincorporated, and “any agreement or arrangement” includes any such transaction, formal or informal, and whether legally binding or not.
- 5 I/We expressly acknowledge and agree that, without prejudice to any other rights of the CUMC, if this certification is in anyway incorrect, or becomes incorrect prior to the award of this Tender, the CUMC may:
 - a. disqualify my/our Tender from consideration;
 - b. withdraw any confirmation of award of Tender already made, without penalty or liability;
 - c. disqualify me/us, our holding company and subsidiaries from participation in any future Tender issued by the CUMC for such period as the CUMC may in its entire discretion consider appropriate;
 - d. take such other actions, including reporting me/us to the government or regulatory authorities in Hong Kong or elsewhere, as the CUMC considers appropriate.

Person Authorized to Sign Tender

Name of Company with Company Chop: Name and Title:

Telephone:

Email:

Authorized Signature:

Date:

Schedule 7: Personal Data (Privacy) (Amendment) Ordinance

The new provisions on data processors under the Amendment Ordinance had come into effect on 1 October 2012 and as such, I/we certify the following:

- a. I shall/We will and shall/will procure my/our employees, agents or representatives to comply with the provisions of the Personal Data (Privacy) Ordinance (the “Ordinance”) (including any amendments thereon from time to time), and any applicable codes of practice, guidance notes or regulations in the handling of personal data (as defined in the Ordinance from time to time) (“Personal Data”) collected by and provided to me/us for the purpose of this Tender/Agreement.
- b. I/We shall not keep Personal Data longer than is necessary for the fulfilment of the purpose (including any directly related purpose) for which the same are or to be used. I shall/we will:
 - i. return, destroy or permanently erase all such Personal Data;
 - ii. destroy or permanently erase all copies of such Personal Data made by me/us; and
 - iii. use all reasonable endeavors to ensure that anyone who has received any such Personal Data destroys or permanently erases such Personal Data and any copies made by it or him,

in each case, save to the extent that I am/we or the recipients are required to retain any such Personal Data by any applicable law, rule or regulation or by any competent judicial, governmental, supervisory or regulatory body.

- c. I shall/We will take all practical steps and have in place and maintain appropriate security measures to prevent unauthorized or accidental access, processing erasure, loss or use of Personal Data collected by or transferred to it having particular regard to:
 - i. the kind of Personal Data and the harm that could result if any of those things should occur;
 - ii. the physical location where the Personal Data are stored;
 - iii. any security measures incorporated (whether by automated means or otherwise) into any Goods in which the Personal Data are stored;
 - iv. any measures taken for ensuring the integrity, prudence and competence of persons having access to Personal Data; and
 - v. any measures taken for ensuring the secure transmission of Personal Data.

Person Authorized to Sign Tender

Name of Company with Company Chop:	Name and Title:
_____	_____
Telephone:	Email:
_____	_____
Authorized Signature:	Date:
_____	_____