

	<b>INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</b> <b>STORES &amp; PURCHASE SECTION</b> Email: <a href="mailto:adstores@iitmadras.ac.in">adstores@iitmadras.ac.in</a> Telephone : (044) 2257 8285/8287/8290 FAX: (044) 2257 8292 GSTIN: 33AAAAI3615G1Z6	
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**P K Sheba Sabari**

*Assistant Registrar (Stores & Purchase)*

**Date: 10.06.2024**

**Tender No. IITM/SPS/Digital Radiography System/0007/2024-25/SPL**

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system namely technical bid and financial bid for

**Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras**

Conforming to the specifications enclosed.

**No manual bids will be accepted.** All tender documents including Technical and Financial bids should be submitted in **Government e-Market Place (GeM) portal through Custom Based Bid**

1	<b>LAST DATE &amp; TIME for receipt of Tender</b>	:	<b>As per the GeM bid document</b>
1	<b>Date &amp; Time of opening of Tender</b>	:	<b>As per the GeM bid document</b>
2	<b>Pre-bid Meeting</b>		The Pre-bid Meeting will be conducted via Google Meet on <b>13.05.2024 @ 03:00 p.m.</b> Please see the below link to join the meeting. <a href="https://meet.google.com/sop-hgrt-bzo">https://meet.google.com/sop-hgrt-bzo</a>

**GUIDELINES FOR TENDER SUBMISSION IN GOVERNMENT E-MARKET PLACE (GEM) PORTAL THROUGH CUSTOM CATALOGUE BASED BID**

Bidders are requested to go through the GeM Handbook for instructions, preparation of bids and submission of bid.

**General instructions to the Bidders:**  
The tenders will be received online in GeM portal through BoQ Based Bid. In the Technical Bids, the bidders are required to upload all the documents in single pdf file.

**Assistance to Bidders:**  
Any queries relating to the process of BOQ Based Bid submission or queries related to GeM Portal, contact the portal by email [helpdesk-gem@gov.in](mailto:helpdesk-gem@gov.in) or toll free nos. **1800-419-3436 / 1800-102-3436.**

TERMS AND CONDITIONS OF TENDER		
1	<b>EMD &amp; Performance Guarantee</b>	i. EMD of INR 1,50,000 (Rupees One Lakh Fifty Thousand only) should be transferred through NEFT/RTGS to the following bank account on or before due date before 2:00 p.m. <b>Name : Registrar IIT Madras</b> <b>Bank : State Bank of India</b> <b>Account No. : 10620824305</b> <b>Branch : IIT MADRAS</b> <b>IFSC CODE : SBIN0001055</b>

		<p>ii. As per O.M. No.F.1/2/2022-PPD Dated 01.04.2022, the EMD will be returned to the unsuccessful Bidder(s), within 30 days after declaration of result of first stage i.e. technical evaluation etc. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender. The EMD amount should not be sent through Demand Draft.</p> <p>iii. Non-submission of EMD details on or before the due date and time will result in rejection of the e-bid.</p> <p>iv. As per Rule 170 of GFR 2017, exemption of EMD will be given subject to submission of document proof by the firm seeking such exemption. Copies of relevant orders/ documents regarding such exemption should be submitted along with the tender document.</p> <p>v. The amount of EMD is liable to be forfeited if the bidder withdraws the offers after submission of the tender or after the occupation of the offer and fails to remit the Performance Guarantee.</p> <p>vi. The successful bidder shall submit a Performance Guarantee of 3% of the purchase order value by way of DD/ Bank Guarantee / e-Bank Guarantee/ FDR / Insurance surety Bonds in favour of "The Registrar, IIT Madras" to be obtained from any commercial bank 14 (Fourteen) days from the date of issue of order by IIT Madras which shall be released 60 days after the successful completion of the warranty period after adjustment of dues, if any without any interest.</p>
2	<p><b>Marking on Technical Bid</b></p>	<p>i. The pre-qualification criteria, technical specification of the item for this tender is given in <b>Annexure A</b>. The Bidders shall go through the pre-qualification criteria, technical specification, scope of the work and submit the technical bid in the proforma given in <b>Annexure B</b> in the tender document along with the supporting documents.</p> <p>ii. The Technical bid should be submitted in <b>pdf format only through GeM only. No manual submission of bid will be entertained.</b></p> <p>iii. The technical bid should have the page-wise <b>heading as "Technical Bid" and page no.</b> in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.</p> <p>iv. The technical bid should consist of</p> <ol style="list-style-type: none"> <li>a) Document proof for EMD payment</li> <li>b) Technical Compliance sheet as per proforma given in Annexure-B</li> <li>c) Document proof for pre-qualification criteria, technical details along with catalogue / brochure and other technical, commercial terms and conditions.</li> </ol>
3	<p>Preparation of Tender:</p>	<ul style="list-style-type: none"> <li>• <b>The bidder shall visit the site and take the measurement of room at The Institute Hospital before submission of bid.</b></li> <li>• The bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.</li> <li>• The bidder has to submit the tender document duly signed on all pages by an authorized person and his / her full name and status shall be indicated below the signature along with official seal/stamp of the firm. Submission of wrong / forged information / document will be liable to legal action, and rejection of the bid submitted by the firm.</li> <li>• The bids of the agency/firm/company not in possession of valid statutory license / registrations are liable for rejection.</li> </ul>

	<ul style="list-style-type: none"> <li>• If any relative of the bidder is an employee of the IIT Madras, the name, designation and relationship of such employee shall be intimated to the Registrar, IIT Madras in writing while submitting the bid.</li> <li>• No bidder will be allowed to withdraw / alter / modify the bid during the bid validity period.</li> </ul>
4	<p><b>Signing of Tender:</b></p> <p>The bid is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the schedule to the tender are not fully filled in or not duly signed/authenticated. Specific attention is drawn to the delivery dates and terms and conditions enclosed herewith. <b>Each page of the bids shall be duly signed with the official seal of the Bidders.</b></p> <p>If the bid is submitted by a firm in partnership, it shall be signed (with seal) by all the partners of the firm above their full typewritten names and current addresses. Alternatively it shall be signed by a partner holding power of attorney for the firm in which case a certified copy of the power of attorney shall accompany the bid. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the bid.</p> <p>If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the bid, in which case a certified copy of the power of attorney shall accompany the bid. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The bidder shall also furnish a copy of the Memorandum of Articles of association duly attested by a Notary Public.</p>
5	<p><b>Period for which the offer will remain open:</b></p> <p>The bids shall remain valid for acceptance/validity till: <b>120 days from the date of opening of the tender.</b> However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.</p>
6	<p><b>Prices:</b></p> <ul style="list-style-type: none"> <li>• The prices quoted must be Net considering all scope of supply, terms &amp; conditions mentioned in <b>Annexure A.</b></li> <li>• <b>The prices quoted by the Bidders should be inclusive of GST and other charges.</b></li> <li>• <b>All conditional tenders will be summarily rejected.</b></li> <li>• Quote should be in INR only</li> </ul>
7	<p><b>Warranty including Calibration:</b> 5 years from the date of successful installation and commissioning of the equipment. Calibration to be done yearly as a part of contract.</p>
8	<p><b>Training</b> Service Engineer should be available to train our personnel at least 3 times in the first year at free of cost.</p>
9	<p><b>Onsite Support:</b> Free technical support should be given in the warranty period when required</p>
10	<p><b>Comprehensive Annual Maintenance Contract:</b> 3 years to be provided after the warranty period.</p>
11	<p><b>Spares:</b> Availability of spares for a period of 10 years. Certification as per <b>(Appendix A)</b> to be provided</p>
12	<p><b>No Advance Payment will be made for the supply.</b> The Payment will be made only after satisfactory completion of the supply and installation as per terms and conditions of the purchase order.</p>
13	<p><b>Delivery:</b> The delivery period shall be 30 days from the date of purchase order.</p>
14	<p><b>GST: As applicable</b></p>
15	<p><b>Terms and Conditions:</b> Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will lead to rejection of offers.</p>
16	<p><b>Right of Acceptance:</b></p> <p>IIT Madras reserves the right to reject the whole or any part of the Tender without assigning any reason or to accept them in part or full.</p>
17	<p><b>Communication of Acceptance:</b></p> <p>Letter of Intimation and acceptance will be communicated by post /email to the successful bidder to the address indicated in the bid.</p>
18	<p>All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through GeM portal. In terms of Rule 173 (iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.</p>
19	<p><b>Bidder shall submit along with this Bid:</b></p> <p>Name and full address of the Banker &amp; their swift code, PAN No. and GSTIN number.</p>
20	<p><b>Jurisdiction:</b></p> <p>All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of tender is issued.</p>

21	<p><b>Dispute Settlement:</b></p> <ul style="list-style-type: none"> <li>It is mutually agreed that all differences and disputes arising out of or in connection with this agreement shall be settled by mutual discussions and negotiations. If such disputes and differences cannot be settled and resolved by discussions and negotiations then the same shall be referred to the sole Arbitrator appointed by the <b>Director, IIT Madras</b> whose decision shall be final and binding on both the parties.</li> <li>It is also agreed that in case of any disagreements / disputes in connection with the Arbitrator's award, the same shall be settled under the Court of Law with its jurisdiction at Chennai. The resultant contract will be interpreted under Indian Laws.</li> </ul>
22	<p><b>Right of IIT Madras</b></p> <ul style="list-style-type: none"> <li>The Registrar, IIT Madras reserves right to withdraw / relax any of the terms and conditions mentioned above so as to overcome the problem encountered by the contracting parties.</li> <li>The Registrar, IIT Madras reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever and his / her decision shall be final and binding on the tenderer.</li> <li>IIT Madras reserves the right to suitably increase / reduce the scope of supply put to this tender. In case of any ambiguity in the interpretation of any of the clauses in tender document or purchase order, interpretation of the clauses by the IIT Madras shall be final and binding on all parties.</li> </ul>
23	<p><b>Compensation / Force Majeure:</b></p> <p>If the selected bidder could not complete the supply to the satisfaction of the IITM within the stipulated period, the firm shall be bound to pay IITM a sum calculated as given below by way of compensation. If the firm fails to complete the supply by the scheduled date of completion, it will have to pay compensation for non-performance at rate of 0.25 % of tendered value for each week or part thereof of delay subject to maximum of 5% of the contract value.</p> <p>Compensation is not payable if the delay is attributable to the Institute and Force Majeure. However, it is the responsibility of the selected Bidder to prove that the delay is attributable to the Institute and Force Majeure. The selected Bidder shall submit the proof authenticated by the Bidder and Institute's official that the delay is attributed to the Institute and/or Force Majeure along with the bills requesting payment.</p>
24	<p>The bidder shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation is found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract.</p>
25	<p>The bidder shall study the Technical Bid in detail as given in <b>Annexure A</b> before submitting the bid.</p>
26	<p><b>PRE-QUALIFICATION CRITERIA:</b></p> <p><b>Eligibility Criteria-I</b></p> <ol style="list-style-type: none"> <li>The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23<sup>rd</sup> July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24<sup>th</sup> August 2020. A declaration as per format given in <b>Annexure – D</b> shall be submitted with the bid.</li> <li>Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I and Class-II local suppliers should be submitted in the prescribed proforma as per <b>Annexure-E. Non-submission of self-declaration will lead to rejection of bid out rightly and the bidder will be treated as non-local supplier.</b></li> </ol> <p><b>Eligibility Criteria-II</b></p> <ol style="list-style-type: none"> <li>Neither the tender participating firm nor any of its partner has been debarred/involved/convicted in any criminal case/economic offence nor any criminal case/economic offence is pending against firm or any partner of the Firm before any Court of Law/Police. A self-declaration format given in <b>Annexure -F</b></li> <li>The bidder should have GST and PAN registration (Necessary document proof should be attached)</li> <li>The firm must have a cumulative financial turnover of atleast Rs.28 Lakhs in the last three years i.e. 2020-21, 2021-22 &amp; 2022-23 and it should be duly certified by Chartered Accountant.</li> </ol>

	<p>4. The bidder or OEM should have supplied Floor Mounted Direct Digital Radiography System to Central Government Hospitals/ State Government Hospitals / Reputed Hospitals in the last three years as detailed below:</p> <p style="padding-left: 40px;">i) Three (3) supplies each costing not less than Rs.14 Lakhs (Or)</p> <p style="padding-left: 40px;">ii) Two (2) supplies each costing not less than Rs.21 Lakhs (Or)</p> <p style="padding-left: 40px;">iii) One (1) supply costing not less than Rs.28 Lakhs</p> <p><b>Copies of the documents listed below should be submitted as a proof for the above supply:</b></p> <p>A. Purchase Order B. Performance Certificate</p> <p>5. The bidder should be an OEM or authorized supplier of OEM. Necessary OEM certificate / OEM authorization letter for this particular tender should be submitted by the bidder as per <b>Annexure –G</b>.</p> <p>6. The bidder should have a valid AERB certificate (proof should be attached). In case the bidder is authorized dealer, the certificates shall be in the name of the OEM and submitted with the tender document.</p>
27	<p><b>Number of Bids and their Submission:</b> The bidders should submit the bids in two bid system as detailed below:</p> <p><b>Bid I Technical Bid</b> The technical bid should consist of Pre-qualification Criteria (Eligibility Criteria - I &amp; II), technical specification compliance sheet (proforma given in Annexure-B) and floor plans along with all relevant documents proof.</p> <p>The bidder should go through the Pre-Qualification Criteria (Eligibility Criteria I &amp; II) and technical specification given in <b>Annexure-A and floor plans</b> of the tender document, understand the requirement of IIT Madras and submit their technical bid along with all relevant document proof in the proforma given in <b>Annexure–B</b>.</p> <p><b>Bid II Financial Bid</b></p> <p>The financial bid should be submitted in excel format (BoQ) as per the proforma (<b>Annexure C</b>). The quoted price should be inclusive of all including transportation, installation and commissioning at the Institute Hospital as per the direction of Chief Medical Officer, Institute Hospital, IIT Madras.</p>
28	<p><b>Evaluation of Bids:</b> Bid Evaluation will take place in two stages.</p> <p><b>Stage I: Technical Bid evaluation</b></p> <ol style="list-style-type: none"> <li>1. Bidder will be evaluated first for conformity with Eligibility Criteria-I and those bidders who have complied with this criteria will alone be evaluated further.</li> <li>2. In the 2<sup>nd</sup> stage, Eligibility Criteria-II and the technical specification offered by the bidders will be evaluated by the technical committee for compliance. Only those bidders who have fully complied with Eligibility Criteria I, II and technical specification will be considered for financial bid evaluation.</li> </ol> <p><b>Stage II: Financial Bid Evaluation:</b></p> <p>The financial bid evaluation will be based on price quoted by the bidder and the tender will be awarded to the L1 bidder. <b>Optional item for Sl.No.2 mentioned in Price Bid (Annexure-C) will not be taken for price bid evaluation.</b></p>
29	<p>In accordance to the Rule 173 of GFR, 2017 and relevant provisions thereof in Procurement Manuals,2022, IITM reserves the right to carry out the negotiation process through its purchase/technical committee with L1/H1 ( as applicable) vendor to ensure price reasonability before final recommendation to the Competent Authority. The negotiation details, if any, on case to case basis shall be recorded in minutes of meeting suitably for records.</p>
30	<p><b>Selection of successful bidder and Award of Order</b> The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein.</p>

31	It is an online tender through GeM portal, the opening of the bids may be checked by using the respective logins of the bidders.
32	<b>The pre-bid meetings will be conducted through online on 13.06.2024 @ 3:00PM. Bidders can submit their queries and doubts to the email id: adstores@iitm.ac.in on or before 12.06.2024.</b> Clarification to the queries and doubts raised by the bidders will be issued as a corrigendum/addendum in the GeM portal / Institute Website (tenders.iitm.ac.in) / CPP Portal (e-Publishing). For the bidders, submitting bids on downloaded tender document, it is 'bidders' responsibility to check for any amendment/corrigendum on the GeM portal / website of IIT Madras / check for the same CPP Portal (e-Publishing) before submitting their duly completed bids. <b>After the pre-bid meeting, queries/ clarification if any will not be considered.</b>

**Sd/-  
Assistant Registrar (S&P)**

## **ACKNOWLEDGEMENT**

It is hereby acknowledged that I/We have gone through all the points listed under “Specification, Guidelines, Terms and Conditions” and Special Terms & Conditions of tender document, the same is abided and agreed to be executed. In case, if the above information is found false, I/We are fully aware that the tender /order will be rejected / cancelled by IIT Madras.

Signature of the bidder  
Name & Address of the bidder with Office Stamp

## SCHEDULE OF TENDER

### **Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras**

Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL

Name of Organization	Indian Institute of Technology Madras
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/Works)	Goods
Type/Form of Contract (Work/Supply/Auction/ Service/ Buy/ Empanelment/ Sell)	Supply
Name of the Tender	Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras
Source of Fund (Institute/Project)	Institute
Is Multi Currency Allowed	No
Date of Issue/Publishing	10.06.2024
Document Download Start Date	10.06.2024
Pre-Bidding	13.06.2024 @ 3.00 PM
Last Date and Time for Uploading of Bids	As per GeM due date
Date and Time of Tender Opening	As per GeM due date
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	120 Days
Address for Communication	<b><u>For Technical Related Queries</u></b> Chief Medical Officer Institute Hospital IIT Madras, Chennai 600 036 Phone No. 044 2257 8330 Email: cmo@iitm.ac.in
	<b><u>For General Queries:</u></b> The Assistant Registrar Stores & Purchase Section IIT Madras Chennai – 600 036 Phone: 044- 2257 8287/8288 Email: adstores@iitm.ac.in



**TECHNICAL BID****Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras**

Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL

**A. PRE-QUALIFICATION CRITERIA:****Eligibility Criteria-I**

1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23<sup>rd</sup> July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24<sup>th</sup> August 2020. A declaration as per format given in **Annexure – D** shall be submitted with the bid.
2. Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I and Class-II local suppliers should be submitted in the prescribed proforma as per **Annexure-E**. Non-submission of self-declaration will lead to rejection of bid outrightly and the bidder will be treated as non-local supplier.

**Eligibility Criteria-II**

1. Neither the tender participating firm nor any of its partner has been debarred/involved/convicted in any criminal case/economic offence nor any criminal case/economic offence is pending against firm or any partner of the Firm before any Court of Law/Police. A self-declaration format given in **Annexure -F**
2. The bidder should have GST and PAN registration (Necessary document proof should be attached)
3. The firm must have a cumulative financial turnover of atleast Rs.28 Lakhs in the last three years i.e. 2020-21, 2021-22 & 2022-23 and it should be duly certified by Chartered Accountant.
4. The bidder /OEM should have supplied Floor Mounted Direct Digital Radiography System to Central Government Hospitals/ State Government Hospitals / Reputed Hospitals in the last three years as detailed below:
  - i) Three (3) supplies each costing not less than Rs.14 Lakhs  
(Or)
  - ii) Two (2) supplies each costing not less than Rs.21 Lakhs  
(Or)
  - iii) One (1) supply costing not less than Rs.28 Lakhs

**Copies of the documents listed below should be submitted as a proof for the above supply:**

- A. Purchase Order
- B. Performance Certificate

5. The bidder should be an OEM or authorized supplier of OEM. Necessary OEM certificate / OEM authorization letter for this particular tender should be submitted by the bidder as per **Annexure –G**.
6. The bidder should have a valid AERB certificate (proof should be attached). In case the bidder is authorized dealer, the certificates shall be in the name of the OEM and submitted with the tender document.

## B. Technical Specifications

<b>Generator</b>
The Generator should be of high frequency of capacity of 32 KW or more.
KVP range should be 40 - 150 KV or more.
The output at 100 KV should be 400 mA or more.
Generator must be under the table to reduce the space requirements.
<b>X-Ray Tube and Collimator</b>
The X-ray tube should be of rotating anode with dual focus having the following sizes: (i) Large focus: 1.2 mm or less (ii) Small focus: 0.6 mm or less
The unit should have an Anode Heat Storage capacity of 300 KHU or more.
Distance measuring scales should be provided.
Tube rotation on the vertical axis should be +/- 180 degrees (Clockwise) & +/- 135 degrees (anticlockwise) at least with the end stopper.
Should have a multi-leaf collimator having bright light source auto shut provision for the light along with automatic image cropping facility. The light output should be a minimum of 160 lux
The tube column should be ceiling-free floor mounted and should have longitudinal travel of a minimum of 1500 mm or more
Touch screen display on Tube head to control Kvp & Mas as well as selection of body parts.
<b>Vertical Detector Stand:</b>
The unit should be provided with a vertical stand.
The unit should have provision to do all upright X-rays.
The vertical Detector should travel from at least 1.3 feet to 5.5 feet above floor level.
It should have a removable anti-scatter grid.
It should be flat vertical motion can be locked in any position.
<b>Table</b>
The table top should be floating with transverse and longitudinal movements 300 mm, 450 mm respectively or better.
The table should have a weight-bearing capacity of a minimum of 300 kg or more.
The table should have a removable anti-scatter grid
Electromagnetic foot switch control for locking and releasing the table top should be provided.
Bucky travel along table access 525 mm or more.
<b>Grids</b>
Two removable grids should be provided.
(1) 180 cm focal distance for chest
(2) 100 cm focal distance for table
The grid ratio should be 10:1 and frequency should be 132lines/inch or better.
<b>Detector</b>
The size of the detector should be a minimum 35 cm x 43 cm or more
The detector should be flat panel type with A-Si (amorphous silicon) and CsI as scintillator
The detector should have a storage facility of 200 images or more.
The pixel pitch should be at least 150 microns or better.
It should have an automatic exposure detection system
It should have the Grey Scale of 16 bits or more

The resolution should be a minimum of 3.5 lines pair/ millimeter or more
Active Image pixel matrix size 2.5 K x 3.0 K or more
The weight of the detector should not be more than 3.15 Kgs, including two batteries
The detector must have inbuilt of 2 Lithium Ion Polymer batteries.
The Detector should be wireless and should have operative batteries time of minimum 15 Hrs or more without need of replacement during uses.
The detector should have a point load capacity of a minimum of 200 kg or more
The detector should have a surface load capacity of a minimum of 400 kg or more
The detector should work on Dual-band Antennas (wifi) with a minimum of 3 antennas and 802.11 n/ac standard ensuring more stable and faster wireless transmission.
Panel IPX Rating should be IP67 or better
Operating temperature between 0° to 40 ° C or better.
Image Acquisition time should be up to 3 Sec or better.
Panels manufactured in the bordering countries of India should not be offered.
<b>Work Station/Operating Console :</b>
The operating console should have an LED monitor of a size minimum of 22” or more.
It should have a minimum of 1 TB hard disc capacity, 8 GB RAM.
The system should have built-in DICOM interface ready
It should have a single console PC for all functionalities like patient identification and image processing.
It should receive images from the detector without any loss of data.
The image processing software should be from the same manufacturer.
It should be possible to send images to Dicom stations /PACS. It should support Dicom modality work list and MPPS.
It should have distance & angle measurement tools, flip/rotation of images, window level/width adjustment, indication of greyscale saturation level, invert grey scale, annotate images with markers and predefined texts, electronic collimation, blackening/removal of unexposed pixels.
The console should indicate over/under-exposed images on the preview screen based on IEC standards.
It must have the latest image processing algorithm.
<b>UPS</b>
Online UPS from reputed manufacturer of at least 15 minutes back up for Workstation Only.
<b>Warranty</b>
The system must be offered 5 years warranty.
<b>Accessories</b>
Should provide Lead Apron ( Lightweight user friendly). Thyroid and Pelvic Lead Protectors
<b>Calibration:</b> To be included in warranty and to be done yearly as a part of contract

**Note: Catalogue / Brochure to be attached mandatorily along with technical details.**

**PROFORMA FOR TECHNICAL BID****Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras**

Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL

**A. PRE-QUALIFICATION CRITERIA**

Sl. No.	Description	Compliance (Yes/No)	Page Ref.No.
<b>PRE-QUALIFICATION CRITERIA</b>			
<b>I. ELIGIBILITY CRITERIA - I</b>			
1	The bidder shall not be from a country sharing Land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23 <sup>rd</sup> July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24 <sup>th</sup> August 2020. A declaration as per format given in <b>Annexure – D</b> shall be submitted with the bid.		
2	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 <sup>th</sup> September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I and Class-II local suppliers should be submitted in the prescribed proforma as per <b>Annexure-E</b>		
<b>II. ELIGIBILITY CRITERIA - II</b>			
1	Neither the tender participating firm nor any of its partner has been debarred/involved/convicted in any criminal case/economic offence nor is any criminal case/economic offence pending against firm or any partner of the Firm before any Court of Law/Police. A self-declaration format given in <b>Annexure -F</b>		
2	The bidder should have GST and PAN registration (Necessary document proof should be attached)		
3	The firm must have a cumulative financial turnover of atleast Rs.28 Lakhs in the last three years i.e. 2020-21, 2021-22 & 2022-23 and it should be duly certified by Chartered Accountant.		
4	The bidder should have supplied Floor Mounted Direct Digital Radiography System to Central Government Hospitals / State Government Hospitals / Reputed Hospitals in the last three years as detailed below:  i) Three (3) supplies each costing not less than Rs.14 Lakhs (Or) ii) Two (2) supplies each costing not less than Rs.21 Lakhs (Or) iii) One (1) supply costing not less than Rs.28 Lakhs  <b>Copies of the documents listed below should be submitted as a proof for the above supply:</b> A. Purchase Order B. Performance Certificate		
5	The bidder should be an OEM or authorized supplier of OEM. Necessary OEM certificate / OEM authorization letter for this particular tender should be submitted by the bidder as per <b>Annexure –G.</b>		
6	The bidder should have a valid AERB certificate (proof should be attached). In case the bidder is authorized dealer, the certificates shall be in the name of the OEM and submitted with the tender document.		

## B. TECHNICAL SPECIFICATION

S. No.	Specifications	Unit	Qty	Compliance (Yes/No)	Page Ref No.
1.	<b>Generator</b>	No.	1		
1.1	The Generator should be of high frequency of capacity of 32 KW or more.				
1.2	KVP range should be 40 - 150 KV or more.				
1.3	The output at 100 KV should be 400 mA or more.				
1.4	Generator must be under the table to reduce the space requirements.				
2.	<b>X-Ray Tube and Collimator</b>				
2.1	The X-ray tube should be of rotating anode with dual focus having the following sizes: (i) Large focus: 1.2 mm or less (ii) Small focus: 0.6 mm or less				
2.2	The unit should have an Anode Heat Storage capacity of 300 KHU or more.				
2.3	Distance measuring scales should be provided.				
2.4	Tube rotation on the vertical axis should be +/- 180 degrees (Clockwise) & +/- 135 degrees (anticlockwise) at least with the end stopper.				
2.5	Should have a multi-leaf collimator having bright light source auto shut provision for the light along with automatic image cropping facility. The light output should be a minimum of 160 lux				
2.6	The tube column should be ceiling-free floor mounted and should have longitudinal travel of a minimum of 1500 mm or more				
2.7	Touch screen display on Tube head to control Kvp & Mas as well as selection of body parts.				
3.	<b>Vertical Detector Stand:</b>				
3.1	The unit should be provided with a vertical stand.				
3.2	The unit should have provision to do all upright X-rays.				
3.3	The vertical Detector should travel from at least 1.3 feet to 5.5 feet above floor level.				
3.4	It should have a removable anti-scatter grid.				
3.5	It should be flat vertical motion can be locked in any position.				
4.	<b>Table</b>				
4.1	The table top should be floating with transverse and longitudinal movements 300 mm, 450 mm respectively or better.				
4.2	The table should have a weight-bearing capacity of a minimum of 300 kg or more.				
4.3	The table should have a removable anti-scatter grid				
4.4	Electromagnetic foot switch control for locking and releasing the table top should be provided.				

4.5	Bucky travel along table access 525 mm or more.				
5.	<b>Grids</b>				
5.1	Two removable grids should be provided.				
5.2	(1) 180 cm focal distance for chest				
5.3	(2) 100 cm focal distance for table				
5.4	The grid ratio should be 10:1 and frequency should be 132lines/inch or better.				
6.	<b>Detector</b>				
6.1	The size of the detector should be a minimum 35 cm x 43 cm or more				
6.2	The detector should be flat panel type with A-Si (amorphous silicon) and CsI as scintillator				
6.3	The detector should have a storage facility of 200 images or more.				
6.4	The pixel pitch should be at least 150 microns or better.				
6.5	It should have an automatic exposure detection system				
6.6	It should have the Grey Scale of 16 bits or more				
6.7	The resolution should be a minimum of 3.5 lines pair/ millimeter or more				
6.8	Active Image pixel matrix size 2.5 K x 3.0 K or more				
6.9	The weight of the detector should not be more than 3.15 Kgs, including two batteries				
6.10	The detector must have inbuilt of 2 Lithium Ion Polymer batteries.				
6.11	The Detector should be wireless and should have operative batteries time of minimum 15 Hrs or more without need of replacement during uses.				
6.12	The detector should have a point load capacity of a minimum of 200 kg or more				
6.13	The detector should have a surface load capacity of a minimum of 400 kg or more				
6.14	The detector should work on Dual-band Antennas (wifi) with a minimum of 3 antennas and 802.11 n/ac standard ensuring more stable and faster wireless transmission.				
6.15	Panel IPX Rating should be IP67 or better				
6.16	Operating temperature between 0° to 40 ° C or better.				
6.17	Image Acquisition time should be up to 3 Sec or better.				
6.18	Panels manufactured in the bordering countries of India should not be offered.				
7.	<b>Work Station/Operating Console :</b>				
7.1	The operating console should have an LED monitor of a size minimum of 22" or more.				
7.2	It should have a minimum of 1 TB hard disc capacity, 8 GB RAM.				
7.3	The system should have built-in DICOM interface ready				
7.4	It should have a single console PC for all functionalities like patient identification and image processing.				

7.5	It should receive images from the detector without any loss of data.				
7.6	The image processing software should be from the same manufacturer.				
7.7	It should be possible to send images to Dicom stations /PACS. It should support Dicom modality work list and MPPS.				
7.8	It should have distance & angle measurement tools, flip/rotation of images, window level/width adjustment, indication of greyscale saturation level, invert grey scale, annotate images with markers and predefined texts, electronic collimation, blackening/removal of unexposed pixels.				
7.9	The console should indicate over/under-exposed images on the preview screen based on IEC standards.				
7.10	It must have the latest image processing algorithm.				
8.	<b>UPS</b>				
8.1	Online UPS from reputed manufacturer of at least 15 minutes back up for Workstation Only.				
9.	<b>Warranty</b>				
9.1	The system must be offered 5 years warranty.				
10	<b>Accessories</b>				
10.1	Should provide Lead Apron (Lightweight user friendly). Thyroid and Pelvic Lead Protectors				
11	<b>Generator</b>				
11.1	The Generator should be of high frequency of capacity of 32 KW or more.				
12	<b>Calibration:</b> Calibration cost to be included in warranty and to be done yearly as a part of the contract				

**Note: Catalogue / Brochure to be attached mandatorily along with technical details.**

Place:  
Date:

Signature of the bidder  
Name & Address of the  
bidder with Office Stamp

**PROFORMA FOR FINANCIAL BID (BOQ)****Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras**

Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL

Sl.No.	Detailed Description as per Annexure-A	Unit	Qty	Rate Per Unit	Total Cost (without GST)	GST (in %)	Total Cost (with GST)
1	Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital at IIT Madras	No.	1				
<b>Total Cost</b>							
2.	<b>Optional item:</b>						
	Comprehensive Annual Maintenance Contract for 3 years						
	For 1 <sup>st</sup> year	No	1				
	For 2 <sup>nd</sup> year	No	1				
	For 3 <sup>rd</sup> year	No	1				

**NOTE:**

- The rate should be inclusive of transporting, loading, unloading, assembling and placing the finished product.
- **Optional item for Sl.No.2 mentioned in Price Bid (Annexure-C) will not be taken for price bid evaluation.**

Place:  
Date:  
Stamp

Signature of the bidder  
Name & Address of the Tenderer with Office



(To be given on the letter head of the bidder)

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Tender: No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL

Dated:

**CERTIFICATE**

*(Bidders from India)*

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

**OR (*whichever is applicable*)**

*(Bidders from Country which shares a land border with India)*

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I from \_\_\_\_\_ (Name of Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. (Copy/ evidence of valid registration by the Competent Authority is to be attached)

Place:  
Date:

Signature of the Tenderer  
Name & Address of the  
Tenderer with Office Stamp

**FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PUBLIC PROCUREMENT POLICY**

**(PREFERENCE TO MAKE IN INDIA) 2017**

**Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL**

Date: \_\_\_\_\_

I/We \_\_\_\_\_ S/o, D/o, W/o, \_\_\_\_\_ Resident  
of \_\_\_\_\_ Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide Gol Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

<b>Tick ( ✓ ) and Fill the Appropriate Category</b>	
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 50% and come under <b>“Class-I Local Supplier”</b> category.
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 20% but less than 50% and come under <b>“Class-II Local Supplier”</b> category.

The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage

Percentage of Local content: ..%\*\* .

Place of the local content value calculated: \_\_\_\_\_  
\_\_\_\_\_

For and on behalf of ..... (Name of firm/entity)  
Authorized signatory (To be duly authorized by the Board of Directors)  
<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

This letter should be on the letterhead of the quoting firm and should be signed by competent authority.

\*\* Services such as transportation, insurance, installation, commissioning, and training and after sales service support like AMC/CMC cannot be claimed as local value addition

(To be given on the letter head of the bidder)

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**Self-Declaration that the Service Provider has not been debarred**  
**Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL**

I ..... S/o .....  
R/o ..... police station ..... District ..... Director  
/ partner/ sole proprietor (Strike out whichever is not applicable) of .....  
..... (Firm or Company) do hereby declare and solemnly affirm:

- I. That the Firm ..... has not been debarred or declared insolvent by any of the Union or State Government / Organization.
- II. That none of the individual / firm / Company debarred or any partners or shareholder thereof has any connection directly or indirectly with or has any subsistence interest in the deponent business / firm company.
- III. That neither the Firm nor any of its partner has been involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is pending against firm or any partner of the Firm before any Court of Law / Police.

Place:  
Date:

Signature of the Tenderer  
Name & Address of the  
Tenderer with Office Stamp

**OEM CERTIFICATION FORM**

**(in Original Letter Head of OEM)**

Tender No: ..... Dated: .....

We are Original Equipment Manufacturers (OEM) of..... (Name of the company)

Ms..... (Name of the vendor) is one of our Distributors/Dealers/Resellers/Partners (tick one) for the ..... and is participating in the above mentioned tender by offering our product model.....(Name of the product with model number).

..... is authorized to bid, sell and provide service support warranty for our product as mentioned above.

Name and Signature of the authorized  
signatory of OEM along with  
seal of the company with Date

(To be given on the letter head of the bidder)

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**Supply, Installation and Commissioning of Floor Mounted Direct Digital Radiography System to Institute Hospital  
at IIT Madras**

**Tender No. IITM/SPS/ Digital Radiography System /0007/2024-25/SPL**

I / We \_\_\_\_\_ undertake that that the spare parts will be available for Floor Mounted Direct Digital Radiography System for 10 years from the date of successful installation.

Place:

Date:

Signature of the Tenderer

Name & Address of the

Tenderer with Office Stamp