

टाटा मेमोरियल अस्पताल  
केंद्रीय क्रय विभाग  
TATA MEMORIAL HOSPITAL  
CENTRAL PURCHASE UNIT

TMH/CPU/2026-27/EOI/0006

11/05/2026

रुचि की अभिव्यक्ति (ईओआई) हेतु आमंत्रण रेडियोडायग्नोसिस विभाग, आईसीटीआरईसी, खोपोली के लिए 'सीटी स्कैन 128 स्लाइस सिम्युलेटर वाइड बोर फ्लैट बेड'

**INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR  
'CT SCAN 128 SLICE SIMULATOR WIDE BORE FLAT BED' FOR RADIODIAGNOSIS DEPT.,  
ICTREC, KHOPOLI.**

निदेशक, टीएमसी, डॉ. अर्नेस्ट बोरगस मार्ग, परेल, मुंबई-400012 ओटी विभाग, एसीटीआरईसी और एचबीसीएच और आरसी विशाखापत्तनम के लिए 'रोबोटिक सर्जरी सिस्टम' की खरीद के लिए मूल उपकरण निर्माताओं (ओईएम) या अधिकृत एजेंट/वितरक से रुचि की अभिव्यक्ति (ईओआई) आमंत्रित करते हैं।

The Director, TMC, Dr. Ernest Borges Marg, Parel, Mumbai-400012 invites **Expression of Interest (EOI)** from Original Equipment Manufacturers (OEM) or Authorized Agent/Distributor for procurement of 'CT Scan 128 Slice Simulator Wide Bore Flat Bed' for Radiodiagnosis Dept., ICTREC, Khopoli.

'पात्रता मानदंड', 'तकनीकी विनिर्देश' और अन्य नियम और शर्तें सीपीपी पोर्टल <https://eprocure.gov.in/eprocure/app> और टीएमएच वेबसाइट [www.tmc.gov.in](http://www.tmc.gov.in) पर नोटिस उपलब्ध हैं।

The 'Eligibility Criteria' and 'Technical Specification' and other terms and conditions are available on CPP Portal <https://eprocure.gov.in/eprocure/app> and notice on TMH website [www.tmc.gov.in](http://www.tmc.gov.in).

निदेशक, टीएमसी बिना कोई कारण बताए किसी भी या सभी प्रस्तावों को अस्वीकार करने का अधिकार सुरक्षित रखते हैं।

Director, TMC reserve the right to reject any or all the proposal without assigning any reason.

**ईओआई विवरण:**

**EOI Details:**

ईओआई नंबर: EOI Number	TMH/TMC/2026-27/CPU/EO/001
ईओआई दिनांक: EOI Date	11.05.2026
उपकरण का नाम: Name of the Item	'CT Scan 128 Slice Simulator Wide Bore Flat Bed' for Radiodiagnosis Dept., ICTREC, Khopoli.
ईओआई दस्तावेज़ जमा करने का तरीका: Mode of submission of EOI document	E-Tender Single Packet
प्रोसेसिंग शुल्क: Processing Fee	NIL
ईएमडी: EMD	NIL
ईओआई दस्तावेज़ देखने और डाउनलोड के लिए: EOI Documents for view and download	CPPP Website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> for viewing and download.
ईओआई जमा करने की अंतिम तिथि और समय: Due date and time of online submission of EOI	On 25.05.2026 till 11.00 a.m. and Opening on 26.05.2026 at 11.30 a.m.
ईओआई दस्तावेज़ का प्रस्तुतीकरण Submission of EOI document	EOI have to be submitted online on CPPP portal (Link: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> ). Complete document required to be submitted by the participant using above link.

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<p>समीक्षा बैठक की तिथि और समय: Date and time for review meeting</p>	<p>During the meeting, interested vendors may seek technical clarifications, if any, on <b>02.06.2026 at 3.00 PM in HBB 13<sup>th</sup> Floor Conference Room, Tata Memorial Hospital, Parel, Mumbai-400012.</b></p> <p><b>Note:</b></p> <p>1. <i>Participants are required to provide specifications of all models / configurations of "CT Scan 128 Slice Simulator Wide Bore Flat Bed" by them which are available in the market. Any model / configurations which is not presented will be considered as non-existing.</i></p> <p>2. <i>There will be no discussion on financial aspects.</i></p>
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टाटा मेमोरियल अस्पताल किसी भी कारणवश निविदा के विलंबित अपलोड या देर से प्रस्तुतीकरण के लिए किसी भी प्रकार से उत्तरदायी नहीं होगा।

Tata Memorial Hospital shall not be responsible in any manner for whatsoever reasons, for delayed upload of the tender/ late submission of the tender.

निदेशक, टीएमसी  
Director, TMC

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**Introduction :**

The Tata Memorial Center (TMC) is an autonomous grant-in-aid institution administered under the [Department of Atomic Energy](#), Government of India. The TMC umbrella includes eleven cancer institutes across India, the largest and the central hub of which is the Tata Memorial Hospital (TMH) in [Parel, Mumbai](#), is India's oldest and largest cancer institute.

The TMC mission is to provide comprehensive compassionate cancer care to all through a commitment to excellence in service, research, and education. It has spearheaded the Evidence-based Medicine (EBM) movement in oncology in India, and prioritizes Multidisciplinary Team (MDT) management through disease-specific groups, to ensure quality patient care.

TMC has expanded its outreach across the country with nodal centers established at multiple places across the country, following the 'hub and spoke' model. These together register about 120,000 new cancer patients every year. Currently (2024), TMC comprises the following centres:

- Tata Memorial Hospital, Parel, Mumbai
- ACTREC, Kharghar, Navi Mumbai
- Centre for Cancer Epidemiology (CCE), Kharghar, Navi Mumbai
- Homi Bhabha Cancer Hospital and Research Centre (HBCH&RC), Visakhapatnam, A.P.
- Homi Bhabha Cancer Hospital (HBCH), Sangrur, Punjab
- Homi Bhabha Cancer Hospital and Research Centre (HBCH&RC), Mullanpur, Punjab
- Dr. Bhubaneswar Borooah Cancer Institute (BBCI), Guwahati, Assam
- Homi Bhabha Cancer Hospital (HBCH), Varanasi, Uttar Pradesh
- Mahamana Pandit Madan Mohan Malviya Cancer Centre (MPMMCC), Varanasi, Uttar Pradesh
- Homi Bhabha Cancer Hospital & Research Centre (HBCH & RC), Muzaffarpur, Bihar
- Medicinal plant cultivation facility on forestland, Donavat, Khalapur, Raigad, Maharashtra.

**Objective:**

The primary objective of this Expression of Interest (EOI) is to study/identify the probable bidders in the market and collect the data sheet/brochure from them to make the technical specification generic and as per clinical requirement to serve patient care. Also to discuss and collaborate with the expertise and experiences in the field. To implement newer innovative technology available in the market to reduce turnover time in diagnostic and treatment to cancer patients at all TMC units and across India.

**1. Need for 'CT Scan 128 Slice Simulator Wide Bore Flat Bed' for Radiodiagnosis Dept., ICTREC, Khopoli and Scope of Work:**

The Radiodiagnosis Department at ICTREC, Khopoli requires a "CT Scan 128 Slice Simulator Wide Bore Flat Bed" to strengthen its diagnostic imaging and radiotherapy simulation capabilities. The proposed system will facilitate high-resolution imaging, precise treatment planning, and accurate patient positioning for radiotherapy procedures. The wide bore configuration and flat tabletop are essential for accommodating oncology patients in treatment position and ensuring compatibility with radiotherapy immobilization devices.

The installation of this system will significantly enhance imaging quality, improve workflow efficiency, support advanced oncology treatment planning, and align the institution with contemporary standards of cancer diagnosis and radiotherapy care.

**Scope of Work:**

The scope of work under this procurement shall include the following:

- Supply, installation, testing, and commissioning of the "CT Scan 128 Slice Simulator Wide Bore Flat Bed" with all standard accessories, workstations, and essential components.
- Integration of the system with existing hospital network, PACS/RIS, radiotherapy planning systems, and other related infrastructure.
- Provision of comprehensive on-site training for radiologists, radiation oncologists, radiographers, medical physicists, and technical personnel to ensure safe and effective operation of the system.

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- Warranty, comprehensive maintenance support, and availability of consumables and spares as per tender conditions.
- Compliance with all applicable regulatory requirements, radiation safety norms, and standards prescribed by relevant national and international authorities.

**The technical specification of 'CT Scan 128 Slice Simulator Wide Bore Flat Bed' for Radiodiagnosis Dept., ICTREC, Khopoli are attached at Annexure A.**

**2. Eligibility Criteria:**

- i. Vendor should have experience of supply, installation and commissioning of '**CT Scan 128 Slice Simulator Wide Bore Flat Bed**' at different Government/PSUs/ Autonomous Institutions in India.
- ii. Local Service Support: Should have local office and service support/service engineer for attending the breakdown calls.
- iii. Please submit the technical data sheet along with the brochure as a tender document with reference to the offered make & model.
- iv. Must submit User List and performance report/ testimonial for existing user for the same quoted model.

**Note:** Documents establishing the participant's eligibility as above should be submitted along with EOI.

**3. Arbitration:**

If any dispute arises out of the transaction in any manner that shall be resolved by the sole arbitrator which shall be mutually appointed by both the parties. Award given by such sole arbitrator shall be final and binding on both the parties. The arbitration shall take place in Tata Memorial Centre (Tata Memorial Hospital) and language used shall be English. The Arbitration and Conciliation Act, 1996 and the Rules framed there under shall apply.

**4. Disclaimer:**

TMC reserves the right to alter the scope or terms as needed. This EOI is an exploratory exercise and does not constitute a commitment to award a contract.

**Director, TMC**

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(USE COMPANY LETTER HEAD)

RESPONSE TO EXPRESSION OF INTEREST (EOI) FORM

To

The Director,  
Dr. Ernest Borges Marg,  
Parel, Mumbai-400012

**Sub: Expression of Interest (EOI) for "CT Scan 128 Slice Simulator Wide Bore Flat Bed' for Radiodiagnosis Dept., ICTREC, Khopoli.**

Dear Sir,

Having examined the details given above in Invitation to EOI and terms set out above, we hereby submit the relevant information for considering our EOI.

- i. We accept all the terms and conditions of EOI as set out above.
- ii. We hereby certify that all the statements made and information supplied in the enclosed documents and accompanying statements are true and correct.
- iii. We have furnished all information and details necessary for EOI. Our EOI is complete in all respects.
- iv. We have submitted all necessary documents in support of our eligibility, experience

Signed of the Authorized Representative  
Seal of Application

Enclosures:

1. Technical Specification (Annexure-A)
2. Vendor Capability Form (Annexure-B)
3. Check list for Response Submitted (Annexure-C)

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संलग्नक -ब  
Annexure -B

विक्रेता क्षमता प्रपत्र

**VENDOR CAPABILITY FORM**

संदर्भ:निविदा क्रमांक :  
Ref: Tender No:

तारीख:  
Date:

1. आइटम कार्य का नाम / Name of the Item / Work	
2. निविदा बोली जमा करने की अंतिम तिथि / Due Date of the submission of the tender / Bid	
3. ईएमडी रसीद संख्या, दिनांक एवं राशि EMD Receipt No., Date & Amount	
4. बोलीदाता का नाम पदनाम / Name / Title of the Bidder	
5. पूरा पता (हाल का) Full Address (Recent)	
a. दूरभाष संख्या एवं मोबाइल नंबर Tel. No & Mobile No.	
b. फैक्स Fax	
c. ईमेल- E-Mail	
6. बोलीदाता की ओर से व्यापार करने सौंपे गए कार्य हेतु अधिकृत / व्यक्ति का नाम Name of the person authorized to deal / undertake business for and on behalf of the bidder	
d. दूरभाष संख्या एवं मोबाइल नंबर Tel. No & Mobile No.	
e. फैक्स Fax	
f. ईमेल- E-Mail	
7. बोलीदाता की कानूनी स्थिति (अन्य इकाई / कंपनी / सोसायटी / फर्म) Legal entity of the bidder whether Firm / Society / Company / Other entity	
a. पंजीकरण संख्या Registration No.	
b. जिस प्राधिकरण के पास पंजीकृत है Authority with whom registered	
c. जिससे अनुज्ञा लाइसेंस प्राप्त है उसका नंबर / License No. granted by	
8. बोलीदाता का मुख्य व्यवसाय (निर्माता), व्यापार वितरक, थोक विक्रेता, खुदरा व्यापारी या सेवा एजेंट( Main business of the	

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bidder whether Manufacturer, Business Distributor, Wholesale Dealer, Retail trader or Service Agent	
9. भारत में अधिकृत कार्यक्षेत्र Authorized Area of operation in India	
10. भारत में कार्यरत प्रधान संस्था /कंपनी का नाम जिसकी ओर से (कार्य किया जा रहा है Name of the Principal Organization / Company for and on behalf working in India	
11. प्रधान संस्था उत्पत्ति स्थान / कंपनी का मूल देश / Origin of the Principal Organization / Company	
12. प्रधान संस्था कंपनी का पता / Address of the Principal Organization / Company	
a. संपर्क व्यक्ति का नाम Contact Person Name:	
b. पदनाम Designation:	
c. दूरभाष संख्या एवं मोबाइल नंबर Tel. No. & Mobile No.:	
d. फैक्स Fax:	
e. ईमेल- E-Mail:	
13. बैंक विवरण (रद्द किया हुआ चेक संलग्न) Bank Details (Attached Cancelled Cheque):	
a. बैंक का नाम, शाखा एवं पता Bank Name, Branch & Address	
b. बैंक खाता संख्या Bank Account No.	
c. आईएफएससी कोड IFSC Code	
d. बैंक का एमआईसीआर कोड MICR Code of the Bank	
e. खाता प्रकार Account Type	
14. प्रधान संस्था द्वारा प्रतिनिधि बोलीदाता को प्रदान की गई प्राधिकरण अनुज्ञा संख्या एवं तिथि / प्रतिनिधित्व / Authority / Delegation / License No. & Date granted by the principal to the representative bidder	
15. पैन संख्या PAN No.	

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16. सेवा कर हेतु केंद्रीय उत्पाद शुल्क आयुक्त द्वारा प्रदत्त पंजीकरण संख्या Registration No. granted by Central Excise Commissioner for Service tax	
17. जीएसटी संख्या GST No.	
18. उत्पाद का एचएसएन और एसएसी कोड HSN & SAC code of the product:	
19. आयात निर्यात कोड संख्या / Import / Export Code No.	
आयात के लिए अनुज्ञा संख्या License No. for import	
20. बोलीदाता द्वारा नियोजित जनशक्ति की संख्या No. of manpower employed by the bidder	a.Scientific                      b.Technical
	c. Administrative                d.Finance
21. सहायक सुविधा उपकरण संख्या Support facility equipment No.	
22. निविदा वस्तु से संबंधित कार्य में बोलीदाता का अनुभव। निविदाकर्ता ने इसी प्रकार के कार्य पूर्व में किए हों तथा व्यवसायिक क्षेत्र में 3 से 5 वर्षों का अनुभव होना आवश्यक है, तभी विचार किया जाएगा। Experience of the bidder in dealing with the tendered item. Tenderer must have similar job done in the line of business / experience with 3 to 5 years will be considered	
23. क्या पूर्व में टीएमसी को किसी वस्तु सेवा की आपूर्ति की गई है /; यदि हाँ, तो क्रय आदेश संख्या एवं तिथि उल्लेख करें। Whether supply of any item / service to TMC in past; if yes indicate the Purchase Order No. & Date	
24. प्रस्तुतीकरण हेतु कोई अन्य प्रासंगिक जानकारी Any other relevant information for submission	

मैं प्रमाणित करता करती हूँ कि उपरोक्त जानकारी मेरी सर्वोत्तम जानकारी और विश्वास के अनुसार सही और सत्य है। इसमें/ कुछ भी छुपाया या गलत प्रस्तुत नहीं किया गया है। यदि कोई जानकारी गलत पाई जाती है, तो इसके लिए मैं स्वयं, हस्ताक्षरकर्ता, व्यक्तिगत रूप से उत्तरदायी रहूँगा/रहूँगी।/

I, certify that the above information is correct & true to the best of my knowledge and belief. Nothing has been concealed and fabricated and in case any information is found incorrect then I, the under signatory will be personally responsible.

**हस्ताक्षर**

**Signature**

**तारीख:**

**Date:**

**बोलीदाता के अधिकृत प्रतिनिधि का नाम (सील सहित)**  
**Name of authorized person for bidder with seal**

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संलग्नक –क  
Annexure- C

ईओआई जांच सूची  
EOI CHECK LIST

रेडियोडायग्नोसिस विभाग, आईसीटीआरईसी, खोपोली के लिए 'सीटी स्कैन 128 स्लाइस सिम्युलेटर वाइड बोर फ्लैट बेड' की आपूर्ति, स्थापना और कमीशनिंग के लिए रुचि की अभिव्यक्ति (ईओआई) पर प्रतिक्रिया।

Response to Expression of Interest (EOI) to supply, installation and commissioning of 'CT Scan 128 Slice Simulator Wide Bore Flat Bed' for Radiodiagnosis Dept., ICTREC, Khopoli.

Sr. No	विवरण Particulars	उत्तर (ना लिखें/कृपया हाँ) Response (Please write Yes/No)
1.	संलग्न तकनीकी विनिर्देश )संलग्नक – अ) के अनुसार प्रौद्योगिकी का विवरण प्रस्तुत करें। Submit the details of the technology as per attached technical specification. (Annexure A & Annexure A1)	
2.	विक्रेता क्षमता प्रपत्र )संलग्नक– ब) प्रस्तुत किया गया है। Submitted the Vendor Capability Form. (Annexure B)	
3.	ईओआई चेकलिस्ट )संलग्नक– क) प्रस्तुत की गई है। Submitted the EOI Checklist (Annexure C)	
4.	भारत में विभिन्न सरकारी/पीएसयू/स्वायत्त संस्थानों में 'सीटी स्कैन 128 स्लाइस सिम्युलेटर वाइड बोर फ्लैट बेड' की आपूर्ति, स्थापना और कमीशनिंग का अनुभव विवरण प्रस्तुत किया गया। Submitted experience details of supply, installation and commissioning of 'CT Scan 128 Slice Simulator Wide Bore Flat Bed' at different Government/PSUs/ Autonomous Institutions in India.	
5.	स्थानीय सेवा समर्थन का विवरण प्रस्तुत किया गया है। Submitted local service support details	
6.	प्रस्तावित मेक एवं मॉडल के संदर्भ में तकनीकी डेटा शीट एवं ब्रॉशर को निविदा दस्तावेज़ के रूप में प्रस्तुत किया गया है। Submitted <b>technical data sheet along with the brochure</b> as a tender document with reference to the offered make & model.	
7.	उसी उद्धृत मॉडल के लिए वर्तमान उपयोगकर्ताओं की उपयोगकर्ता सूची तथा प्रदर्शन रिपोर्ट प्रशंसापत्र प्रस्तुत किया गया है। Submitted User List and performance report/ testimonial for existing user for the same quoted model.	

हस्ताक्षर

Signature

तारीख:  
Date:

बोलीदाता के अधिकृत प्रतिनिधि का नाम (सील सहित)  
Name of authorized person for bidder with seal

**TATA MEMORIAL CENTRE  
CENTRAL PURCHASE UNIT**

**TECHNICAL SPECIFICATION OF :- " CT SCAN 128 SLICE SIMULATOR WIDE BORE FLAT BED", Qty: 01 "**

**Intended Use: 128 Slice - or more CT Scan for imaging, image guided procedure & Radiotherapy simulation**

**Please quote the model which is including the latest state of art equipment and meets the basic minimum specifications. The quoted model should be latest introduced with end of life not before 10 years from the date of installation at TMC.**

Name of the Vendor :			
Sr. No.	Technical Specifications / Scope of supply	COMPLIANCE	REMARK
		<b>1) Mention "Complied /Not Complied"</b> <b>2) Highlight any deviations.</b> <b>3) Mention part number/Catalogue number of the relevant item quoted.</b>	
i	<b>Name of the Manufacturer :</b>		
ii	<b>Country of Origin:</b>		
iii	<b>Model Name / Model No. of the Equipment (If the equipment is a combination of more than one equipment then list down the model no. pertaining to each)</b>		
iv	<b>Year of Introduction Internationally</b>		
v	<b>Year of Introduction in India</b>		
vii	<b>Technical Specifications/Scope of supply</b>		
viii	<b>"MULTI-DETECTOR CT SCAN system" , complete as per below mentioned configuration and specifications:</b>		
xi	<b>Features and specifications required:</b>		
x	<b>Multi-slice Multi detector CT scanner should be of latest generation capable of 128 slices or more acquisition/generation per 360 degree rotation. The machine should have latest iterative reconstruction method to reduce dose. The machine should be capable of Dual energy Applications.</b>		
xi	<b>The tenderer should offer their Top of the line latest generation scanner which meets the specification</b>		
<b>A</b>	<b>Gantry:-</b>		
1	The CT Scan Should have low voltage slip rings incorporated in the gantry.		
2	The minimum scan time for a 360 degree rotation should be 0.35 sec or less. There should be choice to select Different scan times.		
3	The gantry has a tilt of +/- 20 degrees on either side and remote tilt should be available.		
4	The gantry should be provided with user control panels on either side for easy positioning.		
5	The gantry should have 3D laser positioning lights.		
6	The scan field of view in acquisition mode is from 200mm to 500 mm intermediate steps for scanning different anatomies.		
7	Aperture is 70 cm in diameter or more.		
8	Please mention the parameters that are displayed on the front side of gantry.		
<b>B</b>	<b>X- Ray Generator:-</b>		
1	The X-ray generator should be High Frequency type.		
2	The generator should be compact and in built in the gantry.		
3	The system x-ray power should be 70 kW or more.		
4	The X-ray cooler is built in the gantry.		
5	It should have a pediatric protocol. Mention details of this protocol.		
<b>C</b>	<b>CT Tube</b>		
1	Anode Heat Storage capacity of at least 7 MHU or more.		
2	Mention cooling rate in KHU / minute		
3	Specify the focal spot size as per IEC standard.		
4	Tube current should be 600 mA or more		
5	Tube voltage should be between 80 to 140kV/p. It should have a pediatric protocol.		
<b>D</b>	<b>Detectors ( Data Aquisition System ) (Stellar /Clarity/Nanopanel Elite/Pure Vision Optics)</b>		
1	The detector offered should be solid state array.		
2	In one rotation it should be capable of performing 128 slice scan or more.		
3	Mention no. of Reconstruction or projections		
4	Minimum number of rows of detectors should be 64 or more		
5	Mention details of Axial Acquisition mode		
6	Mention details of Spiral Acquisition mode		
<b>E</b>	<b>Patient Table</b>		
1	The patient table offered should have a minimum load bearing capacity of atleast 200kg.		
2	Mention Horizontal travel and speed of table.		

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3	Mention Vertical travel and speed of table.		
4	Metal free scanable range should be 150cm or more.		
<b>F Spiral Acquisition</b>			
1	Spiral acquisition should be minimum 0.35 sec or less.		
2	Mention minimum slice thickness in Spiral acquisition mode. Specify entire range.		
3	The system offered should have continuous spiral capacity of at least 60 sec and above.		
4	The range of spiral facility in axial direction should be more than 100 cms.		
5	The reconstruction time in spiral scan should not be more than 0.1 sec.		
6	The system should have the smart mA or equivalent facility or ability to track contrast medium to trigger scan should be included in the scope of the supply.		
7	System should perform Tilt Spiral Scan as standard at any of the chosen angles in 128 slices /rotation acquisition/generation.		
8	High resolution scan package of 0.63 mm or less should be offered as standard.		
9	Latest iterative reconstruction technique launched by company used for low dose scanning should be offered as standard.		
10	Pitch factor 0.2 to 1.5		
<b>G Computer section:</b>			
1	Computer offered should be the latest multitasking processors and a menu driven platform with a RAM size of at least 64 GB.		
2	The display matrix should be at least 1024 x 1024 or better.		
3	The reconstruction time for a axial scan should be more than 0.1 sec.		
4	Standard amount of computer RAM should be at least 64 GB.		
5	Please specify the hard disk capacity for the console for both images and raw data.		
6	It should have facility to store a least 400000 (512 x 512) images.		
7	External media option: DVD, CD, USB-HBB, and Memory stick.		
8	DICOM facility to send, store, print receive etc should be standard.		
9	PC based connectivity should be standard for easy transfer of images and report.		
10	Additional OEM based work station with archival as well as DICOM print should be included in the scope of supply.		
11	The system should have standard software like isotropic 3D volume rendering, MIP, CT angio display, virtual endoscopy, colonoscopy, Brain perfusion,Dental, should be available. as standard on the main console as well as work station.		
12	The following software should be offered as standard (MIP, MPR, SSD, ROI, VOLUME, CALCULATION, CT NUMBER DISPLAY, WINDOW WIDTH, WINDOW LEVEL, TOPOGRAM DISPLAY, CINE DISPLAY, HRCT LUNG, DYNAMIC SCAN, ONCOLOGY SPECIAL PROTOCOL)		
13	Stenosis measurement, wall motion analysis, etc should be possible on the main console or workstation.		
14	Automatic display of MPR images after scan is required.		
15	<b>4DCT :-</b> <b>Software:</b> -4DCT data acquisition software, Retrospective and Prospective acquisition -Retrospective and Prospective acquisition -Phased and amplitude based acquisition -Binning of various phases -Export to existing/any: network, Treatment planning system, treatment unit <b>Hardware:</b> -Interface for existing motion management: network, treatment planning system, treatment unit.		
<b>H Image Reconstruction section:-</b>			
1	Real time display of 512 x 512 matrix		
2	Slice thickness 0.625 to 10mm.		
3	Reconstruction field of 5 to 50 cm		
4	Reconstruction time of 23 images / second or better.		
5	Direct generation of Axial, Sagittal and coronal images from standard scan protocols		
<b>I Resolution:-</b>			
1	The system should have a resolution of at least 16 Line Pair / cm and +/- 10% at standard parameters and using CAT phantom in X-Y direction for entire width of detector.		
2	The low contrast resolution should be atleast 5 mm or better at 3 HU with 10mm slice on 20cm Catphan phantom. Please mention the dose at which the resolution is achieved.		
3	Artifact suppression protocols to maintain LCR at low dose should be standard.		
4	Specify the CT dose index.		
<b>J DOSE REDUCTION TECHNIQUES</b>			
1	There should be pre-patient collimation to reduce unnecessary dose to the patient.		
2	Advanced Iterative Reconstruction with dose reduction capability should be offered as standard.		
3	Advanced dose limiting technology for critical organs should be offered as standard.		
4	Pediatric & infant Imaging protocols for Low dose scanning must be provided.		
<b>K Clinical Application:</b>			
1	Automatic Bone removal software.		

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2	Cerebral angiography package with Automated 3D assessments of infarcted tissue and tissue at risk, Automatic Table and Bone Removal, Best Plane, fast toggling, lesion picking, recalculation mode, follow-up workflow.		
3	Virtual endoscopy (Colonoscopy and bronchoscopy flythrough).		
4	Volume rendered technique.		
5	Neuro Perfusion of brain.		
6	Perfusion of Body		
7	CT Angiography		
8	Bolus Tracking software		
9	Dental Scan		
10	Lung Nodule analysis		
11	Metal Artifact Reduction		
12	Calcium scoring.		
13	Automatic calculation of vessel stenosis.		
14	Triple rule out study.		
<b>L Image transfer / Networking:</b>			
1	Interface for transfer of medical images and information using the DICOM standard. Facilitates communication the devices from different manufacturers.		
2	DICOM Storage (Send/Receive)		
3	DICOM Query/Retrieve		
4	DICOM Basic print .		
5	DICOM Get Worklist (HIS/RIS)		
6	DICOM MPPS		
7	DICOM Storage Commitment		
8	DICOM Viewer on CD .		
9	Interfacing with the existing PACS and Hospital information system will be vendors responsibility		
<b>M Regulatory Requirement : please enclose copies:</b>			
1	Please specify whether equipment is US FDA approved. Please attach 510K certificate.		
2	Please specify whether the System fulfills European CE /ICMED/BIS criteria. Please attach certification document.		
3	AERB approval for the quoted model is mandatory. Please attach certificate.		
4	The vendor should assist and facilitate site approval , registration , licensing and certification of the facility by AERB.		
5	Vendor should not be blacklisted from any govt institution or Judicial or semi judicial authority. An affidavit to this effect should be submitted.		
<b>N Standard accessories:</b>			
The following essential accessories to be provided with the unit:-			
1	<b>Bidder to provide OEM workstation Qty -01 with desktop computer qty-01 in addition to console for reporting puprpose</b>		
2	<b>Complete hemodynamic Monitor 12 " Display with IBP , NIBP , ECG ,EtCO2 , SpO2 , Temperature ,Invasive Pressure transducers ,Slave Monitoring option enabled ( Software and hardware as standard ) , with battery backup</b>		
a)	Invasive Pressure transducers :4 no.s		
b)	SPO2 Probe : 01 Adult , 01 Pediatric		
c)	Temperature Probe - 2no.s,		
d)	Slave display on the main monitor		
e)	5 lead ECG cable : 2no.s		
f)	EtCO2 Module :-01 nos		
g)	NIBP cuff :- Adult 02 nos , pediatric 02 nos		
h)	NIBP cable :- 01 nos		
i)	Monitor stand / mount ( Monitor will be mounted on anesthesia machine )		
j)	Slave monitoring should provided with slave display at the CT console area .		
3	<b>Anesthesia Workstation -01 Qty</b>		
a)	Durable with a sturdy kit.		
b)	Antistatic wheels with brakes		
c)	Shelves for monitors		
d)	The anesthesia workstation should have in built ventilator with min. 6" TFT display.		
e)	<b>Gas delivery system:</b>		
i	Gas specific high pressure blocks.		
ii	Non interchangeable gas supply inlet for cylinders with step down regulators		
iii	Pressure reducing valves.		
iv	Color coded indexed gas supply hoses.		
v	Provision of additional O2 port for powering a ventury device.		
vi	Provision for manual as well as mechanical ventilation.		
vii	Provision for both open as well as closed circuit.		
viii	Provision for attachment of 2 cylinders one each of O2 and N2O cylinders.		
ix	Provision to monitor the expired gas volume, O2 monitor sensor probe along with all the tubings and connections with alarms.		

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x	Ability to monitor the expired TV/minute volume, respiratory rate and FIO2		
xi	Quick and easy change over from open circuit to closed circuit and vice versa.		
xii	Ability to bypass the soda lime canister and convert to an open circuit.		
xiii	Provision for emergency flow of 100% O2 under high pressure through both circuits.		
xiv	Audible and visual alarms for airway pressure, disconnection, oxygen failure.		
f)	<b>Flow meters:</b>		
i	For oxygen, nitrous oxide and air with safety feature		
ii	Oxygen failure alarm, audible and visible		
iii	Anti-hypoxia safety mechanism to ensure that O2 concentration doesn't fall below minimum 23% at any time.		
g)	<b>Vaporisers: 2Nos with each Unit</b>		
i	Should have provision to connect two vaporisers.		
ii	Vaporiser safety lock.		
iii	Vendor Should provide Vaporisers-2Nos (isoflurane-1No, sevoflurane-1No)		
h)	<b>Ventilators:</b>		
i	Ventilators for controlled ventilation of adults as well as children		
ii	Volume controlled/pressure controlled/Pressure Support.		
iii	Inbuilt PEEP administration.		
iv	Provision for manual and mechanical ventilation		
v	Monitoring for airway pressure- Peak and PEEP, plateau		
vi	Provision to monitor expired gas volume, O2 monitor sensor probe along with all the tubings and connections with alarms.		
vii	Ability to monitor the expired TV/minute volume, tidal volume, respiratory rate and FIO2		
viii	Tidal volume delivery should be in the range from atleast 20ml-1400ml		
ix	Respiration rate: 4-60 bpm (or more)		
x	PEEP setting: upto 20 cmH2O		
xi	Peak pressure setting upto 50cmH2O		
i)	<b>Breathing system:</b>		
i	Should have integrated CO2 absorber with easy removal and refitting during the operation.		
ii	Should be autoclavable at 134 deg C.		
iii	Should have APL valve, inspiratory valve, expiratory valve.		
iv	should have mechanism to prevent moisture condensation (eg. Heating circuit or equivalent )		
v	Should work on mains Power and with battery backup of 45 minutes minimum with fully charged batteries		
j)	International standards : The unit should comply with international standards and should have markings of European CE/USFDA/BIS/ICMED and the bidder should submit a copy of certificates.		
k)	<b>Gas monitoring:</b> It should have inbuilt gas monitoring for CO2, N2O, O2 and Anesthesia agent for inspiratory and expiratory values. It should be to monitor and display MAC value on the screen.		
l)	The financial bid should include all the essential accessories		
m)	Open and closed circuit for both adult and pediatric		
n)	Venturi system need to be provided		
o)	<b>Essential consumables:</b>		
i	AGM Water trap, Sample line-10 nos		
ii	Mask No. 3 & 4 - 1+1 each		
iii	Sodalime Box -1 box		
4	<b>For Radiation Protection:-</b>		
a)	Wrap around lead Aprons of -06 nos (Zero lead or equivalent)		
b)	Coat Apron of -10 nos (Zero lead or equivalent)		
c)	Thyroid Collars of -10 nos.(Zero lead or equivalent)		
d)	Lead Glass window for console room 150 x 200 cm - 2 number.		
e)	Lead Goggles - 05 No		
f)	Gonadal Shield - 2 nos		
g)	Paediatric Gonadal Protection- 02 No		
h)	Head Shield - 05 No (Zero lead or equivalent)		
i)	Mobile Apron Hangers (for 10 aprons) - 02 Nos		
j)	Should comply to US FDA/ European CE/ BIS/ ICMED certification. Please attach copy of the certificate(s).		
5	<b>Bi Phasic Defibrillator with ECG , AED mode AND inbuilt pacing mode .</b>		
6	<b>Dehumidifier of 110 Litre - 2 Nos.</b>		

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7	<b>Patient Support System (Indexed Couch) :-</b> -Carbon fiber flat table top -Vertical limits & accuracy( $\leq \pm 1$ mm) -Total longitudinal travel (Please specify the range) -Horizontal limits & accuracy( $\leq \pm 1$ mm) -Speed -Controls -Compatibility with Radiotherapy Machine(LINAC available) -AAPM TG 66 compliance		
8	<b>CT Accessories (Positioning and QA devices) :- One Set of 3 external Static LASER System</b>		
9	<b>Water Bath/ Oven (with adjustable temperature settings):- 01 QTY</b> <b>Dimensions suitable for 6 clamp Abdomino-Pelvic thermoplastic mould.</b> <b>(provide make and specifications).</b>		
10	<b>"DUAL HEAD INJECTOR " , complete as per below mentioned configuration and specifications:</b>		
	<b>Features and specifications required:</b>		
1	Flow Rate should be 0.1-10.0 mL/sec		
2	Maximum Pressure should be 300 psi		
3	Contrast Heat Maintainer should be 37°C $\pm$ 4°C, 5 W		
4	Maximum Volume should be 190ml		
5	Manual fill rate should be Up to 10 ml/s		
6	Auto fill Rate should be Up to 10 ml/s		
7	Number of Phases should be 6		
8	It should be integrated with Wireless communication (WiFi) between console room & Scan room modules.		
9	It should Colour touch screen on injector head at least 7" or better as well as on console room display .		
10	It should have facility to inject contrast & saline simultaneously.		
11	It should have built In eGFR calculator.		
12	It should have facility to upgrade with 'Weight based dosing' protocol.		
13	It should have facility to store injection history upto 100 records.		
14	Injector Should be operable on mains as well as rechargable Battery.		
15	Quantity of consumables is given below . Price should be quoted in the financial bid and the rate should be applicable for 2 years. :- The vendor should supply the 200 set of consumables( syringes + connector tubings ).		
	<b>PART-B</b>		
XIII	<b>Other requirements:</b>		
1	Main Gantry system , UPS , Equipment room pannels should get occupied in given space as per layout shared . Please find attached layout plan .The vendors should inspect the site before quoting and ensure that the unit and all accessories can be installed in the available space without any functional compromise.		
2	Live Demonstration of the equipment is required.		
3	Please provide a list of installations of the quoted model.		
4	Please submit the floor plan for installation and commission.		
5	The Equipment/ System should comply to US FDA/ European CE/ BIS/ ICMED certification. Please attach copy of the certificate(s).		
6	Should provide AERB NOC for quoted model.		
7	Should provide AERB Type approval for quoted model.		
8	The institute shall apply for AERB approval for layout and the tenderer shall facilitate in getting the same for institute.		
9	<b>Must provide online UPS with isolation transformer of adequate capacity for the complete systems. With minimum 15 minutes back up. SNMP card should be provided with the UPS as a standard. SNMP card should have a facility remotely examine/access the battery charge levels , input &amp; output voltage , frequency, temperature ,alerts,alarms and other characteristics .</b>		
10	Training to be provided to Doctors , technicians and Biomedical Engineers.		
11	Service tool kit hardware & software should be kept on site to reduce down time.		
12	All the software related licence, keys to the system should be handed over to USER.		
13	Performance certificate from five government institutes is mandatory.		
14	Please specify pre installation requirements (electrical, HVAC etc.)		
15	Please specify footprint size & weight.		
16	Please visit the site to check whether quoted model can be accommodated in the available space.		
17	Please specify power consumption.		
18	<b>Vendor has to provide complete design for entire turnkey work related to the said equipment with concurrence of OEM .Vendor will also be responsible to vet the design and BOQ prepared by the turnkey agency / ACTREC.</b>		
19	All Necessary standards and norms. (As applicable).		

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20	Local Service Support: Should have local office and service support/service engineer for attending the breakdown calls, please provide the address along with list of engineers, their location and contact details in India.		
21	Response Time: Should not be more than 06 hrs from lodging a breakdown complaint on toll free or by email.		
22	Warranty: 2 years comprehensive-on site- Factory warranty for the entire equipment system. Warranty will cover the complete system including X-ray tube, Detector, Hardware, software and third party supplies. All bought out items used in system should also be included in the warranty. Warranty should include upgrades / update of softwares and Hardware, No separate software licence fees will be payable should also cover 2 years factory warranty from respective manufacturers. The vendor should perform 4 nos. of preventive maintenance services/ year and QA/QC as per AERB prescribed protocol during the warranty period.		
23	Comprehensive Maintenance Contract(CMC): Vendor to quote for cmc for 8 years post 2 years warranty. CMC should include 4 preventive maintenances/ year and all breakdown visits. CMC will cover the complete system including X-ray tube, Detectors, Hardware, software and third party supplies allied equipment by the vendor. All bought out items used in system should also be included in the CMC. CMC should include upgrades / update cost softwares and Hardware, No separate software licence fees will be payable. Should include QA QC annually as per AERB norms.Planned preventive maintenance and other planned maintenance activity should be done on Public Holidays and on Sundays.		
24	<b>PENALTY CLAUSE</b>		
	<p>The supplier and / or its Indian agent will be required to give the guarantee towards the performance of the equipment during the warranty period and in case of comprehensive annual maintenance contract period for maintaining the equipment in good working condition for a period of at least 300 days out of a period of 365 days a year (i.e. 95% uptime) 24 X 7. The ten hours non-functioning of the equipment or any part thereof will be considered as one day downtime. Total 3000 hours in a year will be considered as Uptime guarantee. Working time is 8.00a.m. To 6.00p.m. On week days and 8.00 a.m. To 4p.m. for Saturdays. The equipment shall be fully functional as part of the uptime and if it is partly functional it shall be considered as downtime and deduction shall be made on Pro-rata basis i.e. if the equipment is 70% functional &amp; 30% downtime shall be applicable. The decision of the TMC management or its representative in determining the % of the downtime shall be final and binding. Essential period to shut down the installation entirely or partially shall also be included in the downtime while calculating the 95% guaranteed uptime i.e. all features as per specifications in purchase order should be functional for uptime. The supplier/agent shall be required to pay a penalty of 0.1% of total cost (Ex works) of equipment per day per machine excluding 150 hours permissible downtime. This rate shall increase commensurate with the rate increase of CMC. If the number of days downtime in each period of 365 days is more than the downtime permissible (which is to be calculated as defined above), the delay for not bringing the equipment in functioning order in any way, directly or even partially will be attributable to the firm. The bidder should provide the details of preventive maintenance to be undertaken through the year. Preventive maintenance to be done on public holidays &amp; on sundays only. Preventive maintenance and breakdown will not be clubbed. The bill should be raised quarterly and will be paid at the end of every quarter only. If system is unserviceable for patients in its full capacity (full capacity : all features as demonstrated during commissioning) for more than 7 days at a stretch then these additional days exceeding 7 days will be considered as "downtime" and to levy penalty will be the discretion of Director TMC irrespective of 95% overall uptime in a year. This clause is to ensure maximum uninterrupted service to patients and hence Director, TMC's decision in enforcing / invoking this clause will be final and binding for all. For CMC, W.O. issued by TMC shall be final as per D.A.E. Norms. TMC &amp; its units shall not sign separate legal contract as per vendor's format.</p>		
25	<b>Important terms to be noted by the bidders:</b>		
a)	<u>Read the above scope of supply carefully and quote accordingly. Incomplete and /or partially complete offers are liable to be rejected.</u>		
b)	Manufacturer/bidder should clearly indicate typical life span / Life expectancy of the quoted equipment.		
c)	Item/Equipment quoted should not be a second hand/refurbished/on verge of obsolescence/outdated model. Similarly, after award of contract, the item supplied should be a newly manufactured item .		
d)	After opening of the Technical bid (Part-1), Physical demonstration of the quoted model may have to be shown / arranged by the bidder, if requested by the Institute. Physical demonstration may be shown at one of the end user's site/Principle company's application lab/manufacturing site located in Mumbai/Navi Mumbai/Thane cities within 10 days from the date of request. Physical Demonstration may be requested to confirm the availability of any or all technical features as mentioned/stated in the technical bid. Physical Demonstration will also be a part of technical evaluation process. If the bidder does not comply, such bids are liable to be disqualified. (Demonstration of quoted model is to be shown and not the demonstration of similar models with different technical specifications and features)		

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e)	Past experience of the bidders in terms of quality of supplied equipments, after sales service and application support will be taken into consideration while technical evaluation.. Bidders who has unsatisfactory past experience in any of the TMC/DAE unit in last 2-3 years, in terms of quality of supplied equipments, after sales service and application support, bids of such bidders may liable to be rejected.		
f)	Complete and detailed information should be provided in respect to each point specified in the specifications. <u>Technical bids that are incomplete in any respect are liable to be rejected.</u> Provide relevant supportive information, publications, catalogue, etc. Bidders providing misleading or wrong information are liable to be rejected. All technical claims should be printed in the technical brochure of the equipment.		
g)	If any contradictory statements /figures/information is observed in the compliance chart and in the technical bid, then the technical information mentioned in the product literature/brochure will be considered true and further evaluation will be done based on the information given in the product literature/brochure. Regarding the warranty and CMC terms, information quoted in the technical bid will only be taken as valid terms.		
h)	Compliance column may be filled with relevant data, figures, range etc. as applicable. Do not just mention "YES / NO / Complied ".		
i)	Declaration by the bidder		
j)	We have quoted for all the items meeting the description/scope of supply in the Financial bid as per prescribed format of the Tender documents and we agree that Partial/incomplete offers are liable for rejection.		
<b>27</b>	<b>L1 Calculation</b>		
	L1 will be based on cost of the entire system and 8 years CMC cost including accessories and other support equipment at landing cost at ACTREC ie. Equipment cost, applicable taxes and duties, transportation & insurance charges, installation charges along with 2 years warranty cost.		