Date: 24.11. 25

Tender (Ref: IISc-Med-2025-26/G-15)

#### **GLOBAL TENDER ENQUIRY**

## To Whom It May Concern

This Request for Quote (RFQ) invites proposals for the supply, installation, testing, commissioning, and user training of two Flat-Panel Mobile C-Arm Systems for the Operating Theatres at IISc, a premier research institute. The package shall include a **2D Flat-Panel Mobile C-arm** for Emergency OT and a **3D Flat-Panel Mobile C-arm** for Neurosurgery OT, along with all OEM-supplied components required for full operational functionality. All components shall be OEM-sourced or OEM-authorized to ensure compatibility, performance, and compliance with relevant medical-imaging and electrical-safety standards.

The 2D C-arm shall provide high-resolution fluoroscopic and radiographic imaging with low-dose optimization to support trauma procedures such as fracture fixation, orthopaedic reductions, spinal trauma management, emergency surgeries with smooth and safe manoeuvrability suited for fast-paced workflows.

The 3D C-arm shall deliver high-quality fluoroscopy and CT-like 3D imaging for neurosurgical applications, including MIS spine, cranial and skull-base surgeries, deformity correction, DBS placement, biopsy guidance, and neurotrauma management, with precise orbital motion and rapid 3D reconstruction.

Vendors shall consider the demanding surgical workflow, emergency response requirements, and research-oriented environment of IISc while preparing their technical and commercial submissions.

Further details about IISc can be referred from:

https://medicine.IISc.ac.in/

#### A. Procedure:

- 1. Vendors are required to submit a technical proposal and a commercial proposal in <u>two separate sealed envelopes</u>. Only vendors who meet the technical requirement will be considered for the commercial negotiation.
- 2. The deadline for submission of proposals is 15<sup>th</sup> December, 2025, Monday, 5:30 pm Indian Standard Time.
- 3. Bids in the sealed envelope should arrive at the office of Dean (A & F), Main building, Indian Institute of Science, Bangalore 560012, India, by the above deadline.
- 4. The technical proposal should contain a technical compliance table with 6 columns.
  - a. The first column must list the technical requirements in the order that they are given in the technical requirement below in tender specifications.
  - b. The second column should provide specifications of the equipment against the requirement (please provide quantitative responses wherever possible.)
  - c. The third column should describe your compliance with a "Yes" or "No" only. Ensure that the entries in column 2 and column 3 are consistent.
  - d. The fourth column should state the reasons/explanations/context for deviations, if any.
  - e. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features and qualify the response of previous columns.
  - f. The Sixth column should contain the datasheet & technical offer Page reference number.
  - g. If the required information is not available in the Product Data Sheet and printed technical literature, it must be authenticated by the competent authority of the principal manufacturer, and in case of any discrepancy, the decision of the Technical Committee shall be final and binding on the supplier; additionally, the vendor must provide a legally binding declaration stating that the required information will be demonstrated at the time of handover and commissioning
- 5. Vendors are encouraged to highlight the advantages of their equipment over comparable equipment from the competitors.
- 6. In the commercial bid, please provide the itemized cost of the equipment and required accessories, etc.
- 7. Please provide itemized cost for any suggested/optional accessories/add-on items that may enhance the equipment usability, capability, accuracy or reliability. Vendors are encouraged to quote for as many add-ons as their product portfolio permits.
- 8. In the quote, you are requested to provide itemized cost for spares, accessories, consumables expected over 2 years of use.
- 9. Please indicate the warranty provided with the equipment.

10. Any questions or clarifications can be directed to:

Dean (A & F)
Main building, Indian Institute of Science,
Bangalore 560012
Office@iiscmedicalschoolfoundation.org

#### B. Terms and Conditions

- 1. Only the Original Equipment Manufacturer or their authorized representatives across the globe shall participate in the
- 2. The order will be placed only on the bidder who participated in the bid.
- 3. The decision of the purchase committee of IISc will be final.
- 4. The vendor is responsible for the planning, supply, installation, testing and commissioning of the equipment & the training of personnel of the installed equipment at the IISc.
- 5. The RFQ must include references to previous installations including the list of all customers where similar systems were installed in the past 5 years. Please provide the names and contact addresses of the referees so that the committee can contact them independently. Details of such systems with model numbers and users should be provided. The reference letters can be used to disqualify vendors with poor track records of service, build quality, system performance, or poor availability of spares.
- 6. The vendor should have qualified technical service personnel for the equipment based in India and must assure a response time of <2 hours after receiving a service request. The schedule for periodic preventive maintenance for the equipment and all the items related to OEMs should be provided.
- 7. The indenter reserves the right to withhold placement of the final order and to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason.
- 8. Wherever requested in this specifications sheet, data must be supplied along with technical compliance documents. Technical bids without supporting data will be deemed as technically non- compliant.
- 9. Upon request, all guaranteed specifications will have to be demonstrated in an active installation. Failure to demonstrate any promised specifications will be deemed as technical non-compliance.
- 10. Printed literature and published papers to support compliance with the prescribed specifications may be provided duly authenticated by qualified personnel in the company.
- 11. Technical evaluation by the IISc may include a demonstration to verify the functionalities and capabilities of the equipment quoted. Any discrepancy between the promised and demonstrated specifications will be deemed technical non-compliance. If the need arises, the vendor must be ready to visit IISc for a techno commercial discussion physically.
- 12. The validity of commercial quotations should be at least 90 days from the last date for the submission of tender documents.
- 13. **Payment terms:** LC will be opened with 70% payment on shipment of the item and remaining 20% on installation, testing & commissioning and 10% on user satisfaction. Insurance coverage should be till the commissioning of equipment.
- 14. The functionalities and capabilities of the equipment to be provided as part of documentation. Any discrepancy in technical specification between what was committed during technical evaluation and demonstrated specification on ground will be deemed technical non-compliance. If the need arises, the vendor must be ready to visit IISc for a techno commercial discussion in person.

## C. Other terms

#### 1. Shipment and Delivery Terms

## 1.1 Partial Shipments

a. Partial shipments are allowed; however, transshipment is strictly prohibited.

## 1.2 Delivery Confirmation

a. Delivery shall only be made after receiving written confirmation from the IISc purchase team.

### 1.3 Consignee Details

a. The address of the consignee and the markings on the containers must be clearly stated as per the details provided by IISc.

### 1.4 Packing Slip and Documentation

- a. A packing slip detailing each item and its quantity shall accompany every shipment.
- b. The packing slip must be securely attached to the exterior of one of the containers in a visible manner.
- c. The purchase order (PO) number must be clearly marked on all packing slips, invoices, and correspondence.

#### 1.5 Missing Items and Substitutions

- a. Any items that are not found upon delivery must be clearly noted on the packing slip, and the anticipated availability of such items shall be indicated.
- b. Substitutions of items shall not be made without prior written authorization from IISc.

#### 1.6 Packing of Fragile Equipment

a. Fragile equipment shall be packed in wooden boxes to prevent damage during transit.

### 1.7 Packing of Critical Components

a. Critical components must be packed using foam/bubble wrap and cartons, and securely stuffed within containers to prevent any damage during transit or handling at the site.

#### 1.8 Protection during Transit

a. The Seller shall ensure that all items are securely protected and packed in accordance with best established practices to avoid damage under conditions such as multiple handling, transportation by ship/road, storage, and exposure to heat, moisture, rain, etc.

### 1.9 Seller's responsibility for damage

a. The Seller shall bear full responsibility for any breakage, damage, or pilferage (including during transit or handling within the hospital) resulting from faulty packing.

## 1.10 Marking and Packing Slip

- a. All packages must be visibly marked with the purchase order (PO) number and name of the Buyer in bold letters.
- b. Copies of the packing slip must also be placed inside each package.

## 2. Insurance and Freight

a. The cost of all Freight & Insurance is Included in the purchase order value will be arranged by the supplier. The insurance should be from the vendor warehouse to the site till Installation & commissioning at IISc.

## 2.2 Seller Notification for Insurance

a. If IISc needs to arrange insurance, the Seller must notify promptly.

## 3. Warranty Terms

- **3.1** The equipment along with all the 3<sup>rd</sup> party items should carry a warranty of 12 months from the date of successful commissioning.
- **3.2** The warranty shall commence from the submission of a duly filled "Medical Equipment Acceptance Sheet Checklist," accompanied by all relevant documents, as per the specifications and requirements.

#### 3.3 After-Sale Service

- a. After-sales service will be provided by a service engineer trained by the principal company.
- b. The credentials and certification of the service engineer shall be shared with IISc for approval.

## 3.4 Preventive Maintenance and Calibration

- a. Preventive maintenance and calibration shall be performed according to the recommendations of the Original Equipment Manufacturer (OEM).
- b. Preventive maintenance and calibration shall include calibration for any major breakdowns and be conducted in accordance with local rules and regulations, as well as OEM recommendations.

c. Maintenance and calibration shall also be based on the equipment performance history, using calibrated equipment traceable to international or NABL standards, as required.

#### 3.5 Responsibility for Malfunctions

a. The seller shall take full responsibility for any mishaps or malfunctions related to the ordered equipment caused by delayed periodic maintenance or calibration under warranty & subsequently in a comprehensive annual maintenance contract.

#### 3.6 Maintenance and Calibration Costs

- a. Preventive maintenance and calibration shall be executed free of cost during the warranty and Annual Maintenance Contract (AMC) period.
- b. The seller shall clearly inform IISc about the list of consumables or maintenance kits that may incur additional costs (not covered under the maintenance contract) before the equipment is supplied.
- c. All accessories, including computer systems, printers, laptops, and software versions, shall be covered free of charge under warranty, rental contracts, and subsequent maintenance agreements.
- d. The vendor shall provide a separate quotation for the one-time maintenance call cost. This cost should cover the technician's visit charge, labor, and basic service expenses for each individual maintenance call requested by the customer (On call charges)

### 3.7 Annual Maintenance Contract (AMC) and Comprehensive AMC (CAMC)

The AMC & CAMC rate shall be quoted absolute value of the equipment cost per year till nine years post warranty period of equipment. Please refer to the template for GENERAL TERMS AND CONDITIONS FOR COMPREHENSIVE/LABOUR MAINTENANCE CONTRACT(CMC/AMC).

### 3.8 No Additional Terms to be imposed

- a. The seller shall not impose any additional terms on the buyer when an Annual Maintenance Contract is established on a yearly basis.
- b. All the terms mentioned in the tender and subsequent purchase order shall remain applicable without any modifications.

## 3.9 Warranty Terms during CAMC

a. The warranty terms, including those for preventive maintenance and calibration, shall remain valid and applicable throughout the duration of the CAMC, as per the terms outlined in the tender and subsequent purchase order.

## 3.10 Payment for AMC and CAMC

- a. Payment for CAMC will be made on a quarterly or annual basis.
- b. Payments will be disbursed upon the successful completion of preventive maintenance and calibration activities, in line with the terms and conditions of the tender and subsequent purchase order.

## 3.11 Consumables List

a. The vendor shall provide a list of consumables required for the equipment, along with their associated costs, before the supply of the equipment to IISc.

## 3.12 Equipment Recall and Standby Equipment

- a. The vendor shall notify IISc of any recall related to the supplied equipment and ensure proper action is taken as per the buyer's recall terms and policies.
- b. In the event of an equipment recall, the seller shall provide suitable standby equipment, ensuring the clinical functionality of the buyer is not impacted.
- c. Any open recall or Field Safety Corrective Action (FSCA) associated with the quoted model shall be fully disclosed by the bidder in the technical bid submission.

## 3.13 Adverse Event Reporting

- a. Any adverse events associated with the medical devices shall be promptly reported to IISc.
- b. The vendor shall ensure that any adverse event is communicated to the National Collaboration Centre-Materiovigilance Programme of India, in accordance with regulatory requirements.

#### 4. Maintenance and Calibration

#### 4.1 Preventive Maintenance and Calibration

- a. Preventive maintenance and calibration will be conducted free of charge under the warranty period and any subsequent Annual Maintenance Contracts (AMC).
- b. Calibration will be performed in accordance with industry standards and OEM specifications.

#### 4.2 Report of Maintenance and Calibration

 a. The Seller shall provide a report of maintenance and calibration with details of the work performed, including calibration standards and methods.

#### 4.3 Qualification of Engineers

a. The Seller must ensure the trained engineers are certified and qualified for preventive maintenance and calibration.

### 5. Spare Parts

### 5.1 Supply of Spare Parts

a. The Seller shall supply spare parts for the entire lifetime of the equipment and guarantee availability for a minimum of 10 years from the date of commissioning of equipment.

#### 5.2 Price of Spare Parts

- a. The Seller will provide the prices of major spare parts, which should not exceed 30% of the total equipment value.
- b. A list of critical spare parts and their estimated prices shall be submitted with the tender as part of commercial bid.

### 5.3 Spare Parts Availability

a. The Seller must maintain a minimum stock of spare parts to ensure quick availability for repairs.

### 5.4 Spare Parts Pricing

a. The prices of spares shall be firm for 5 years, after which adjustments can be negotiated considering inflation and exchange variations.

### 6. Uptime and Compensation

## 6.1 Uptime Requirement

- a. The bidder must ensure a minimum uptime of 98% based on a 365-day working year.
- b. In case the uptime falls below the specified 98%, the Warranty/CAMC shall be extended by a ratio of 1:7 days for every additional day of downtime.

#### 6.2 Compensation for Test Failures or Erroneous Results

- a. The seller shall be liable to compensate the buyer for any test failures or erroneous results generated by the ordered equipment.
- b. The compensation amount will be mutually agreed upon by both parties, and this provision will be legally binding.

#### 7. Software and Support Services

#### 7.1 Software Licenses

- a. All software supplied as part of the equipment must come with the necessary licenses for use in India.
- b. The seller shall provide a copy of the software license along with proof of ownership.

The supplied application & operating system software will be kept updated in the form of Free of cost as &

when they are released by the factory.

However, for new application software any additional hardware is needed, the cost will be borne by IISc management at negotiated special price.

### 7.2 Software Support Services

a. Any software updates or bug-fixing services will be free of charge during the lifetime of equipment.

### 8. Integration with Clients HIS & PACS-RIS

#### 8.1 Integration Requirement

a. The Seller must integrate the equipment with clients' Hospital Information System (HIS) & PACS-RIS at no extra cost, as applicable.

### 9. Confidentiality and Ownership Transfer

#### 9.1 Confidentiality

a. The service provider must not acquire or retain any confidential data from IISc.

#### 9.2 Ownership Transfer

a. Any change in the ownership of the principal company must honor all existing agreements with IISc.

### 10. Recall of Equipment

#### 10.1 Equipment Recall

- a. In the event of any recall of equipment, the Seller shall promptly inform IISc in writing.
- b. During the period when the equipment is under recall, the Seller shall provide suitable standby equipment of similar or higher specifications to IISc, at no cost.

## 11. Force Majeure

If either Party is unable to carry out his obligations under this Contract due to an Act of God, war, riot, blockade, strike (I.e. national/ state or city), lockout, flood or earthquake or Government orders/ restrictions not within the control of the parties hereto which results In an Inability, In spite of due diligence of either party in performing its obligation In time, this Contract shall remain effective, but the obligation which the affected party Is unable to carry out shall be suspended for a period equal to the duration of the relevant circumstances provided that:

The non-performing party shall give the other Party prior written notice describing particulars of the Inability including but not limited to the nature of occurrence with its expected duration and the steps which the non-performing parties is taking to fulfil its obligation.

Upon receipt of such notice the other party shall discuss the matter with the non-performing party with a view to helping the non-performing party to fulfil obligations. This clause does not envisage financial assistance.

If in any event the Force Majeure situation continues for a period of three weeks both the parties shall meet again and discuss whether the Contract can be amended to overcome the Force Majeure situation so the Project can proceed further.

Notwithstanding anything contained to the contrary it is clarified that economic hardship, non-availability of material, labour and transport shall not constitute Force Majeure. The overall responsibilities and obligations of the parties shall not be excused by reasons of Force Majeure situation.

Notwithstanding the above If the Force Majeure continues for a period of three months or more in that event without prejudice to the rights of the parties, the Buyer shall have the right thereafter to terminate this contract.

## 12. Seller's Personnel at Buyer's Premises

## 12.1 Adherence to Safety Regulations

a. Seller's personnel on IISc premises must adhere to all IISc safety regulations and protocols.

## 12.2 Seller's Responsibility for Personnel's Safety

a. The Seller is responsible for their personnel's safety and health while on IISc premises and shall indemnify IISc for any accidents or injuries.

#### 13. Site Evaluation

- a. The Seller must conduct a site evaluation including transportation path, power, air conditioning and other requirements before equipment installation, as applicable.
- b. The Seller shall submit detailed drawings, specifications, and colour codes for all ordered items for Buyer review and approval via email or other methods, as applicable. Manufacturing shall commence only after drawing approval and joint inspection of the proposed site.

#### 14. Skilled & trained Engineer for Installation

a. Installation must be carried out by a skilled engineer and is considered complete only when the equipment is fully operational as per the tender specification.

## 15. Inspection and Quality Plan

## 15.1 New Equipment Requirement

a. Only brand-new equipment will be accepted, and it must be accompanied by quality conformance and manufacturer test certificates.

#### 15.2 Training

a. Hands-on training for IISc engineers and technicians must be provided at no extra cost.

## 16. Marketing Support

a. The Seller shall provide marketing support to IISc as mutually agreed upon.

## 17. Other terms and conditions

- a. **Software Compatibility** If the equipment includes software, it must support integration with hospital EMR/HIS via HL7/FHIR standards, as applicable.
- b. **Standard Accessories** The system should come with all essential accessories (e.g., power cords, consumables) required for full functionality.
- c. **Regulatory Compliance** The software should comply with National Health Stack requirements and undergo ABDM sandbox testing, if applicable.
- d. **Data Protection** Any patient-related data generated by the equipment must adhere to DPDP Act guidelines, if applicable.
- e. **BMS Integration** The system should include a portal for Building Management System (BMS) integration at no additional cost, if applicable.
- f. **Local Service Support** Supplier must have a registered office, trained engineers, spare parts, calibration equipment, and installation references in Bangalore.
- g. **Country of Origin Restrictions** Equipment/materials originating from countries sharing a land border with India will not be accepted.
- h. Cloud Based facilities- All cloud-based facilities should be hosted in the IISc by the vendor
- i. Vendor shall provide regulatory certificates (**like CDSCO/CE/FDA/ISO/AERB/BIS**) type approval where applicable) for the quoted model and the same is to be enclosed on the technical bid.

### 18. Vendor is to provide compliance with remarks against all terms and conditions

- a. The First column should describe your compliance with a "Yes" or "No" only. Ensure that the entries in column 1 and column 2 are consistent.
- b. The Second column should state the reasons/explanations/context for deviations, if any.
- c. The Third column can contain additional remarks from the OEM
- 19. A soft copy of the technical compliance sheet (only) in both pdf and worksheet like excel format should be submitted in pen drive along with technical bid

## TEMPLATE FOR ACCEPTANCE OF MEDICAL EQUIPMENT FOR CLINICAL USAGE

	MEDICAL EQUIPMENT PRE-COMMISSIONING CHECK-LIST	Vendor to fill the details
1	Equipment name	
2	Main Unit Model & Serial No	
3	Date of receipt of equipment at site	
4	Goods opening report (item wise)	
5	Principal Company name	
6	Dealer/ Vendor name	
7	Vendor contact details including email address	
8	Equipment Model name	
9	User Department name	
10	End User (Head of Dept) Signature	
11	Clinical Engineers name	
12	Clinical Engineers Signature	
13	Service Engineers name and Contact number	
14	Application specialist name and contact number	
	Main Unit - hardware as per Purchase Order (Vendor-signed PO and list of items	
15	supplied as per PO with invoice) to be enclosed as part of the commissioning	
	documentation.	
16	Main Unit - software as per Purchase Order (Vendor-signed PO and list of software	
16	supplied as per PO with invoice) to be enclosed as part of the commissioning documentation.	
47	OEM items as per Purchase Order (Vendor-signed PO and list of items supplied as per	
17	PO with invoice) to be enclosed as part of the commissioning documentation.	
18	Accessories as per Purchase Order (Vendor-signed PO and list of items supplied as	
	per PO with invoice) to be enclosed as part of the commissioning documentation.	
19	Consumables as per Purchase order- (Vendor signed PO and List of items supplied as per PO with invoiced) to be enclosed as part of commissioning documentation	
20	Brochure of equipment to be enclosed as part of the commissioning documentation.	
21	Technical Data Sheet to be enclosed as part of the commissioning documentation.	
	Set of service manuals (1 hard copy & 1 PDF soft copy) to be handed over to the	
22	Clinical Engineering Dept.	
23	Set of instruction manuals - Two copies (1 hard copy and 1 PDF) to be handed over to	
	the Clinical Engineering Dept.	
24	List of spares & additional accessories with re-ordering codes and costs used along with the equipment as a standard package (PDF).	
	Equipment demo training information materials like PPT/Video to be handed over to	
25	the Clinical Engineering department.	
	Duly signed letter from the vendor organization head (MD/CEO) stating that the	
26	supplied unit, accessories & OEM items are brand new from the factory, to be enclosed	
	as part of the commissioning documentation.  Quality test certificate of equipment from the factory, duly signed by the factory	
27	production in-charge, to be enclosed as part of the commissioning documentation.	
	Software license document (PDF); including OS, system and application software, and	
28	commitment to support over the lifetime of the equipment, to be enclosed as part of the	
	commissioning documentation.	
29	All cables from the equipment should have proper cable management, i.e., cable labeling.	

	OC and LUDA (Ligared Identification and Disk Assessment) to be conducted during	
30	2S and HIRA (Hazard Identification and Risk Assessment) to be conducted during	
	preventive maintenance wherever applicable to keep the working area clean.	
31	First-level training to Clinical Engineering (training certificate).	
32	Application training to the end-user on all functions demonstrated (training certificate).	
33	Do's and Don'ts for the equipment for the user group to be provided as part of the	
33	training module, to be enclosed as part of the commissioning documentation.	
	Preventive maintenance frequency calculated based on Equipment Risk Classification,	
34	Usage and Operational Intensity, Manufacturer's Recommendations, Historical	
	Performance, and Failure Data.	
35	Preventive maintenance (PM) checklist to be predefined & duly filled during preventive	
	maintenance, to be enclosed as part of the commissioning documentation.	
36	Preventive maintenance kit specification & details to be shared in advance, to be	
	enclosed as part of the commissioning documentation.	
37	Preventive maintenance schedule should be done during non-clinical work operational	
0.	hours based on prior approval from the user.	
38	Calibration schedules should be based on Manufacturer's Recommendations and after	
	every major equipment breakdown servicing.	
39	The calibration process should follow NABL 126 guidelines.	
	With each maintenance work, the service provider should hand over two physical	
	copies of the service report (one for the user and one for the Clinical Engineering Dept.)	
40	along with a duly filled PM checklist. If physical copies are not available, soft copies	
40	should be provided to both the user and the Clinical Engineering Dept. Accepted	
	downtime in hours & accepted equipment breakdown frequency as per PO terms	
	should be understood by the service team, including downtime penalty	
41	Accepted Downtime in hours & accepted equipment breakdown frequency as per PO	
	terms are understood by the service team including downtime time penalty.	
42	The service provider should maintain a logbook of maintenance at the user site.	
43	Shelf-life details of critical spares/accessories/consumables to be provided, to be	
10	enclosed as part of the commissioning documentation.	
	Commissioning report should include (IQ/PQ/OQ) as part of equipment commissioning	
44	documents, duly signed by the user group, to be enclosed as part of the commissioning	
	documentation.	
45	Cleaning & disinfection methodology, including the material used, to be provided at the	
45	time of commissioning of equipment, to be enclosed as part of the commissioning	
40	documentation.	
46	User application training schedule to be provided along with the PM schedule.	
47	Training materials soft copy (PPT/Video) to be shared for installation sign-off.	
48	Letter from the principal manufacturer stating their commitment to IISc for support of	
70	equipment for the coming years as per Purchase Order terms to be provided.	
49	CE/FDA, CDSCO Certificate to be enclosed as part of the commissioning	
	documentation.	
50	The single-phase power cord supplied along with the equipment should have a 3-pin	
	plug (Neutral, Phase, Earth) for Indian usage.	
51	Warranty card and details of the warranty to be enclosed as part of the commissioning	
	documentation.	
=-	Short shipped items (if any) with quantity. The warranty will start only after full supply,	
52	installation, testing, and commissioning of hardware, application software, and third-	
	party equipment supplied along with the main equipment.	
53	OEM and Dealer Sales and Service Escalation contact details, including CEO/MD, to	
	be enclosed as part of the commissioning documentation.	
	Life of the equipment as committed during technical discussions to be provided with	
	maintenance and spare support during the course of the year, irrespective of dealer change, as per PO terms and conditions, to be given on the OEM letterhead. In case	
54	the OEM stops service support during the sales-committed life, the vendor is expected	
	to compensate with the depreciated cost of equipment or provide buyback or upgrade	
	options according to the hospital's requirements.	
	Any adverse events and recalls related to the equipment, if reported, need to be	
55	intimated to IMSF in a timely manner to ensure patient & staff safety by the vendor.	
	manufact to find an a small manner to choose parent a stail ducty by the vehicle.	

Signature: User Dept Head	
Head-Clinical	
Engineering	
Date and Time	
All these details should be given in a spiral bound document by vendor to IISc.	
EQUIPMENT WARRANTY WILL START ONLY AFTER FULL COMPLIANCE OF ABOVE FORM	

GENER	AL TERMS AND CONDITIONS FOR COMPREHENSIVE/LABOUR MAINTENANCE CONTRACT(CMC/AMC)
1) AL	L TERMS AND CONDITIONS REMAIN UNCHANGED AS PER SALES PO
2) AN	MC & CMC VALID FROM TO
3) TH	IIS CONTRACT INCLUDES
1	All equipment and items supplied by the OEM are covered under service contracts and must be replaced free of cost under CMC.
2	All equipment must be serviced by trained, authorized service engineers. The training certificate of the engineer must be submitted to the IMSF Clinical Engineering Team in advance.
3	Preventive maintenance frequency is calculated based on equipment risk classification, usage, operational intensity, manufacturer's recommendations, historical performance, and failure data.
4	The equipment preventive maintenance must be performed according to the predefined checklist provided in the service manual.
5	Operating system and anti-virus updates are an integral part of preventive maintenance.
6	The vendor will not allow their service engineer to train junior staff on our equipment.
7	Vendor to attend unlimited breakdown calls.
8	Call response time of two hours to be maintained; response time to attend calls within 2 hours is applicable, including holidays and non-working hours.
9	Breakdown frequency should not exceed twice the frequency of preventive maintenance.
10	Vendor must submit soft copies of all reports in two copies.
11	Vendor must maintain a service logbook at the user department.
12	Yearly downtime and breakdown frequency will be calculated based on the call logbook.
13	Any damage to hospital property during maintenance by the company engineer should be compensated to the hospital.
14	Vendor must ensure two preventive maintenance visits per year before the due date. Any malfunction or harm to the patient due to delayed preventive maintenance or calibration will be the sole responsibility of the vendor, including legal compensation. Preventive maintenance and calibration must be mandatory after repair or replacement of any spare parts, and necessary kits are to be provided FOC.
15	A copy of the preventive maintenance report with a checklist and a soft copy of calibration, if applicable, is to be shared within one day of execution. The preventive maintenance and calibration label, with done and due dates, must be affixed to the machine without fail, along with the clinical engineer.
16	Periodic training to clinical engineers and end-users, as and when applicable, is mandatory. Training documents must be provided for all concerned staff prior to the renewal of the contract. It is the vendor's responsibility to ensure training, including application training for all staff, without fail. Training materials (PPT/Video) must be submitted to the clinical engineering team prior to any training.
17	Vendor should provide the cleaning and disinfection protocol for the equipment, carry out necessary training periodically, and ensure that all concerned members are trained on the same.
18	Any recall related to the above equipment must be notified in writing, and required corrective actions must be carried

	out FOC. Necessary training must be provided to concerned staff.
19	Any adverse event reported must be intimated to the Materiovigilance department, and corrective action must be shared within one working day with the hospital.
20	Complete breakdown details, including downtime and preventive maintenance/calibration history, must be shared before the renewal of the next contract. Any downtime of more than 48 hours must include root cause analysis and corrective & preventive action with due diligence. Service reports must be legible and include call received, call attended, and call closed (including date & time) accurately. Any report missing this information will be deemed incomplete.
21	Unlimited spare support must be provided, except for consumables (filters). All accessories and parts are covered and included in the contract. Spares must be ordered and moved immediately after diagnosis, including during holidays and non-working hours.
22	Uptime must be maintained at 98%, including holidays and non-working hours.
23	Uptime is defined by the machine working for its intended purpose without compromising patient care or revenue. Any deviation will count as downtime, and for any additional downtime, the contract will be extended by 1:7 days.
24	A maximum of two breakdowns per preventive maintenance frequency is permitted. Any deviation will increase the preventive maintenance frequency in the subsequent year with any cost escalation.
25	Standby equipment must be provided within a day if the issue cannot be resolved for movable equipment.
26	The vendor escalation matrix, including sales and service contact details (mobile numbers & email IDs), must be provided without fail.
27	First-level service training must be provided for the concerned equipment, and the training certificate must be provided to the clinical engineering team members.
28	Preventive maintenance must not be executed during peak working hours and must be carried out as per the user's convenience. The preventive maintenance kit is included in the CMC and must be replaced during preventive maintenance.
29	The AMC bill will only be cleared after the submission of the equipment log report, which must include details of downtime and preventive maintenance (PM) or calibration history. This report must be provided prior to the renewal of the contract.
30	For equipment under AMC, the quotation for spare parts must be provided within one day of the service engineer's recommendation in the service report.
31	For equipment under AMC, no cannibalization of spare parts from working equipment by the service engineer is allowed.
32	Any spare part ordered for equipment under CMC must reach the hospital site within 72 hours.
33	All defective spare parts under AMC will be retained by the hospital. For equipment under CAMC, IMSF will mark the spare part as defective, and a non-returnable gate pass will be issued.

### Template for purchase order terms

**General:** Acceptance of this Purchase/ Work Order (hereinafter referred to as "PO/Order") includes the acceptance of the following terms & conditions and is made expressly conditional on Seller's assent to the exact terms contained herein. None of the terms in the Order may be modified, added to, or superseded, except with the written consent of Indian Institute of Science ("Buyer").

- **1.Price:** The prices mentioned in this Order are the prices at which Buyer has agreed to purchase the Goods or Services (as applicable). No escalation in the aforesaid prices shall be binding on Buyer, notwithstanding anything that may be mentioned in Seller's terms of acceptance of Order.
- **2.Advice of Dispatch**: A full and comprehensive dispatch advice notice shall be sent to stores or concerned departments of the Buyer ("Buyer Stores"). Instructions regarding dispatch & Insurance as mentioned in this Order should be complied with and the packing slips giving reference of Buyer order number shall be included securely with the goods in closed envelopes.

#### 3.Delivery Terms

(a) Deliver Date: Time is the essence in any Purchase Contract. Time of delivery/performance as mentioned in this Order shall be the essence of the Agreement and no variations shall be permitted except with prior authorization in writing from the Buyer.

- (b) Place of Delivery: The goods/services shall be delivered/performed strictly as per the instructions in the Order. All Goods/Services delivered/performed should reach Buyer Stores before 2.00 p.m. on weekdays except that no deliveries/ dispatches shall be made or accepted on Sundays or holidays in the working place of the Buyer.
- (c) Delayed Delivery: The time and date of delivery/performance as stipulated in the Order shall be deemed to be the essence of the Agreement. In case of delay in performance of its obligations by the Seller, or any extension granted by the Buyer, the Buyer shall at his option either (i) accept delayed deliveries at price reduced by a sum/ percentage (%) mentioned in the Purchase Order for every week of delay or part thereof; and/or (ii) cancel the Order in part or in full and purchase such cancelled quantities from open market at the prevailing market price at the risk & cost of the Seller without prejudice to his rights under 3(c) (i) noted above in respect to the goods delivered; and/or (iii) refuse to accept the Goods delivered beyond the delivery date and claim/set-off the difference between the prevailing market price and contracted price of such quantity delivered belatedly by the Seller.
- (d) Delay due to force majeure: In the event of cause of force majeure occurring within the agreed delivery terms, the delivery date may be extended by the Buyer at its sole and absolute discretion on receipt of application from the Seller without imposition of liquidated damages. Only those cause which have duration of more than seven (7) consecutive calendar days will be considered the cause of force majeure. The Seller must inform the Buyer, by a Registered Post or courier letter duly Certified by the Chamber of Commerce or Statutory Authorities, the beginning and the end of the cause of delay immediately, but in no case later than ten (10) days from the beginning and end of each cause of force majeure as defined above.

  (e) The goods shall correspond with the description of the samples of the original specification thereof in full details and must be delivered and dispatched within the stipulated time, as the case may be. Otherwise, the same shall be liable to be rejected and the Seller shall be deemed to have failed to deliver the goods in breach of the PO. The Buyer shall in that event at its sole and absolute discretion, will be entitled to either purchase such goods from other sources on Seller's account, in which case, the Seller shall be liable to pay to the Buyer any difference between the price at which such goods have been purchased and the price calculated at the rate set out in this Order or to hold the Seller liable to pay the Buyer damages for non-delivery of goods for such breach.
- (f) Packing: Goods supplied against this order must be suitably and properly packed (conforming to special conditions stipulated by the Buyer, if any, for safe and/or undamaged transport by road or rail.)
- **4. Examination of goods:** Irrespective of the fact that the goods are delivered to the Buyer by the Seller at the Seller's place or at Buyer's said office or are dispatched as per Buyer's instructions by rail or road, the goods shall always be supplied, subject to detailed inspection, at the Buyer works or such other destinations as specified in the Order for ascertaining whether the goods are in conformity with the Agreement or not and until then in no event the Buyer shall be deemed to have accepted such goods and upon any rejection of goods in question the Seller shall be deemed to have failed to deliver the concerned goods in accordance with the Agreement.
- **5. Rejection/ Removal of rejected goods and replacement:** Buyer shall have the right to reject the goods whether in full or parts which are not delivered in accordance with the terms of the PO. within fifteen days from the receipt of the intimation from the Buyer of his rejection to accept the goods the Seller shall remove, at his own cost, the rejected goods from the Buyer's works or wherever such goods are lying. The Buyer shall not be in any way responsible for or be held liable for any loss or deterioration of the rejected goods as this shall be at the Seller's risk entirely. The Seller shall pay to the Buyer reasonable storage charges for storing such rejected goods for a period exceeding 15 days as aforesaid. Upon rejection, if the Seller fails to replace the goods with the goods acceptable to the Buyer within the contractual period then the Buyer may, solely at his discretion, exercise all or any of the following options in respect of the rejected/undelivered quantity:- a. Dispose-off the rejected goods and claim/set-off the difference between the prevailing market price and contracted price of such undelivered/rejected quantity to the Seller's account; and/or b. purchase such undelivered/rejected quantity from the open market at the prevailing market price at the risk and cost of the Seller.
- **6. Transit Insurance:** In case insurance is not included in Seller's scope he must furnish details such as reference, Lorry Receipt, Note No., nature of packing, number of cases, gross weight net weight, train carrying the goods, value of the goods dispatched etc. immediately on dispatch to Buyer's office to take up insurance in case of goods sent by Regd... Post, the Regd. Post parcel No. should be furnished to the Buyer with a packing slip when action will be taken to insure the goods. This procedure will be adopted unless specially advised by the Buyer to the contrary.
- **7. Insurance:** Seller agrees that during the term of its performance hereunder, it shall, at its sole cost, maintain worker's compensation insurance and other legally required insurance in accordance with and meeting requirements of applicable law.
- **8. Invoices:** All bills/ invoices for supplies/ services made bearing registration number of the Seller should be marked to concerned Office or as mentioned in Order (quadruplicate) duly endorsed with Purchase Order, Reference Number and Date and be accompanied by advice of dispatch detailed packing list and by an appropriate certificate necessary under the GST Registration Rules and Regulations.
- 9. Billing Instructions: Seller must follow the billing instructions carefully and correctly to enable early settlement of his dues. Disregarding the same may involve delay in such settlement. Seller must mention the following information in his bill: (1) Vendor Code Number (2) Purchase Order Item Number (3) Material Code Number, if any. The abovementioned information will be always available in this Order sent to him. One copy of the above document is to be sent to Buyer at The Assistant Registrar, Stores and Purchase Section, Indian Institute of Science, Sir C V Raman Avenue, Bengaluru-560012 or to the address as advised by the Buyer.
- **10. Compliance with laws:** It is clearly reiterated that the Seller is representing an Entity which is strictly complying with all the Laws of the Land as is expected generally from a Seller of a product. It is also made explicitly clear that (a) the Seller has and shall maintain as valid shall under this order strictly comply with the specifications and the requirements agreed upon. At any given point of time, the seller is obliged to produce all applicable licenses, permits, approvals, authorizations and/or or other statutory approvals required to perform its obligation/s under the PO; (b) shall at all times duly observe, perform and comply with all obligations, requirements and/ or prohibitions contained in any statutes, regulations or ordinance of any

authority whether governmental or provincial, relating to or in any way affecting or regulating the respective performance of the PO by it.

- 11. Standard GST Clause: a. The price quoted in this PO for supply of goods shall be exclusive of any applicable Goods and Services Tax, Customs duties, or any other indirect tax as may be imposed by the Government of India from time to time. The Seller shall provide a proper invoice in the form and manner prescribed under GST Invoice Rules containing all the particulars mentioned therein. In the event that the Seller fails to provide the invoice in the form and manner prescribed under rules, Buyer shall not be liable to make any payment against such invoice. Notwithstanding anything contained anywhere in the Agreement, in the event that the input tax credit of the GST charged by Seller is denied by the tax authorities to Buyer, Buyer shall be entitled to recover such amount from the Seller by way of adjustment from the next invoice. In addition to the amount of GST, Buyer shall also be entitled to recover interest at the applicable rate and penalty, in case any penalty is imposed by the tax authorities on Buyer. b. As required by any applicable legislation, where identifiable cost savings are realised by virtue of the enactment of the GST law, those cost savings will be reflected in the calculations of the consideration under this Agreement and shall be passed on by the Seller to Buyer. c. Event of default clause - In the event that the Seller does not deposit the GST charged on the invoice issued to Buyer or such GST charged on the invoice and paid by Buyer is not reflected in online tax credit ledger on common GSTN portal of the govt. as eligible input tax credit for any reason whatsoever, this Agreement shall be liable to be terminated with immediate effect and Seller shall be liable to pay such damages as may be reasonably estimated by Buyer. In the event that the compliance rating prescribed under the GST Act, 2017 read with GST Rules, 2017 of Seller falls below prescribed level for any reason whatsoever, this Agreement shall be liable to be terminated with immediate effect and Seller shall be liable to pay such damages as may be reasonably estimated by Buyer. d. Representation and warranties clause - The Seller represents and warrants that it shall have and maintain in effect level of compliance rating as prescribed by the govt.
- 12. Warranty: The Seller warrants that goods and/or services supplier shall be of the highest grade and quality unless otherwise specified; shall conform to the specifications, drawings, samples or other descriptions contained in the Order or furnished or specified by the Buyer; shall be performed in a workmanlike manner; shall be fit and sufficient for the purpose intended; shall not violate any third party intellectual property rights and shall be merchantable, of good material and workmanship and free from all the defects whether latent or patent. In case the same is found to be defective, inter-alia, in respect of materials, workmanship, design or process of manufacturing within a period 12 months after the same had been put in use or 20 months from the date of acceptance of the goods by the Buyer, whichever is earlier, the Seller shall refund the price paid by the Buyer in respect of the said goods. The Seller shall guarantee that the material Seller further agrees that all materials / goods shall be repaired or replaced as the case may be as noted in Clause 20 below. All spare parts should carry the following: a) Name of the Machine b) OEM/Party's name c) Sr. at his / her own expense. The Seller shall be liable for all costs and damages and replacements at the sole option of the Buyer. These warranties are in addition to those implied by or available at law to Purchaser and shall exist notwithstanding the acceptance and/or inspection by Purchaser of all or part of the goods or services.
- 13. Right of the Buyer to Set Off: In the event, the Seller fails to deliver the goods in accordance with the terms of this PO, the Buyer shall have the right to cancel the PO forthwith and claim refund of any payment made by the Buyer as advance or otherwise to the Seller under the PO. The Buyer shall also have the absolute right to withhold, adjust, and/ or set-off any payment required to be made by the Buyer to the Seller under this PO or any other PO entered into between the parties against the cost, losses, damages etc. suffered by the Buyer due to the failure of the Seller to deliver the Goods in accordance with the terms of this PO, and the Seller expressly waives any objections it may have in this respect.
- 14. Cancellation/Termination: The Buyer reserves the right to cancel/terminate this Purchase Order or any part thereof. The Buyer shall be entitled to rescind the Agreement wholly or in part in a written notice to the Seller if (i) The Seller fails to comply with the terms of the Purchase Order; or (ii) The Seller goes bankrupt or goes into liquidation proceedings; or (iii) The Seller fails to deliver the goods on time and / or replace the rejected goods promptly; or (iv) the Seller fails to deliver the Goods/Services of desired quality, weight, specification, drawing, layout, design, etc.; or (v) The Seller makes general assignment for the benefit of the creditors; or (vi) Receiver is appointed in respect of property of the Seller. The Buyer shall also be entitled to cancel this Order without assigning any reasons or becoming any way liable in such cancellation.
- **15. No Assignment:** This Purchase Order shall not be assigned to any other agency by the Seller without obtaining prior written consent of the Buyer.
- **16. Force Majeure:** Failure or omission to carry out or observe any of the stipulation or condition of the Agreement shall not give rise to any claim or be deemed a breach of the Agreement if the same shall arise from any of the following causes. viz. the imposition or restriction on Import, Acts of God. The Seller submits his acceptance of this agreement with the above conditions by acceptance of Buyer's Order even in cases where the confirmation has been made under assumption of different conditions.
- **17. Special Conditions:** Seller will ensure that all statutes, regulations of the Central or State Government are strictly followed. Buyer shall not be liable to pay any damages/compensation due to non-compliance of these rules / regulations by Seller.
- **18. Arbitration:** Any dispute arising out of or in connection with the agreement shall be settled by Arbitration in accordance with the Arbitration Conciliation Act, 1996. The arbitration proceedings shall be conducted in English in Bengaluru by the sole arbitrator appointed by the Buyer. The cost of arbitration shall be shared equally between the parties unless decided otherwise by the arbitrator.
- **19. Dispute & Jurisdiction of Bengaluru:** All disputes shall be subjected to the exclusive jurisdiction of the court in Bengaluru only or as provided in the PO/Order.
- **20.** Limitation of Liability: In no event shall Buyer be liable to Seller, or to Seller's officers, employees or representatives, or to any third party, for any indirect, consequential, incidental, special, punitive or exemplary damages of whatsoever nature

(including, but not limited to, lost business, lost profits, damage to goodwill or reputation and/or degradation in value of brands, trademarks or trade names, service names or service marks, or injury to persons) whether arising out of breach of contract, warranty, tort (including negligence, failure to warn or strict liability), contribution, indemnity, subrogation or otherwise.

- **21.** All spare parts should carry the following: a) Name of the equipment b) OEM/Party's name c) Sr. No. as per the catalogue d) Buyer's Order No. and date and e) Quantity all relevant information.
- **22.** Works carried out in Buyer's Institution or premises by the Sellers representatives etc.: Agent representative or employees of the Seller who in pursuance of the Agreement have to work in Buyer/Owner's Institution/Premises will be subject to the rules and regulations existing in the works. The Buyer shall not be liable for any accident which may cause to the Sellers personnel.
- 23. Intellectual Property Rights: All drawings, specifications and other documents furnished by Buyer and the Buyer's consultants, and copies thereof furnished to the Seller, are for use solely with respect to this Order. Such drawings, specifications and other documents are to be returned to the Buyer at the completion of the Order or earlier termination of this Agreement. All drawings, specifications and other documents prepared by or for Seller in contemplation of, in the course of, or as a result of performing the work shall be deemed works for hire and all right, title and interest therein shall vest in Buyer, whether or not the Order is ultimately completed. To the extent such drawings, specifications or other documents cannot be considered, by operation of law, works for hire, Seller shall assign to Buyer all right, title and interest thereto and all copies of such drawings, specifications and other documents shall be delivered to Buyer upon completion of the Order or earlier termination of this Agreement. Seller agrees to provide Buyer with reasonable assistance necessary to perfect Seller's interest in intellectual property created under this Agreement. This shall include, but not be limited to, the execution of documents necessary for the Copyright registration. No drawings, specifications or other documents may be used by the Seller or any Sub seller or material or equipment supplier on other projects or for additions to their Project outside the scope of the work without the specific written consent of the Buyer. The Seller, Sub suppliers, Sub-Sub suppliers and material or equipment suppliers are authorized to use and reproduce applicable portions of the drawings, specifications or other documents appropriate to and for use in the execution of their work under the contract documents. All copies made under this authorization shall bear the statutory copyright notice, if any, shown on the drawings, specifications and other documents prepared by or for the Buyer. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Purchaser's copyrights or other reserved rights. Any intellectual property conceived or developed during the course of the Order based upon or arising from Buyer's confidential and proprietary information shall be solely owned by Buyer. Except as expressly provided herein, no license or right is granted hereby to the Seller, by implication or otherwise, with respect to or under any patent application, patent, claims or patent or proprietary rights of Buyer.
- **24.** The terms and conditions of this Order constitute the entire Agreement between the parties here to and changes will be binding only if the amendments are made in writing and signed by the authorized representatives of the Buyer and the Seller.
- **25.** Risk of loss and/or damage to any goods furnished hereunder shall be upon Seller until the goods are physically delivered to Buyer's facility specified on the face of the Order and accepted by the Buyer.
- 26. Indemnification: Seller agrees to defend, indemnify and hold harmless the Buyer, its affiliated companies or parent companies, and their officers, employees, agents, quests, invitees and customers from and against any and all liability, loss, damage, fine, penalty, cost or expense (including attorneys' fees) by reason of any allegation, claim, action or suit, whether for death, personal injury, property damage or otherwise, arising out of (1) failure of the goods or services supplied to meet specifications or warranties or for the goods or services to be otherwise defective; or (2) any alleged or actual, direct or contributory infringement or misappropriation of any patent, copyright, trade secret or other proprietary right arising from the purchase, use or sale of such goods or services; or (3) any leak or spill of any goods while being transported or delivered to Buyer; or (4) any breach by Seller of any term or condition contained in the Order; or (5) violation of applicable laws; or (6) alleged defect in the Goods and/or packaging material, or packed Product, or due to the Goods or packaging thereof being alleged to not adhere to any standard or quality set out herein or under any applicable laws; and/or (7) the acts, omissions, or wilful misconduct of Seller's employees and subcontractors, including their agents and representatives, and all other persons performing any services under the Order with the Seller, whether or not caused in part by a party indemnified hereunder. In the event that the goods or services, in Purchaser's reasonable opinion, are likely to infringe a patent or copyright, or misappropriate a trade secret (and in any event, if a court of law finds that the goods or services, in fact, do infringe or misappropriate), then Seller shall further provide Buyer one of the following forms of relief to be chosen by Seller: (a) obtain a license on Buyer's behalf to continue to use or sell the goods or services; (b) redesign the goods or services so that they do not infringe or misappropriate; or (c) refund Buyer the price paid for the goods or services in question. In any and all claims against Buyer by any employee of Seller, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under the Paragraph shall not be limited in any way by any indemnity or limitation on the amount or type of damages, compensation or benefits payable by or for Supplier, any subcontractor, or anyone directly or indirectly employed by any of them under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- **27. Confidentiality:** Seller shall keep confidential all specifications and proprietary information furnished by Buyer or prepared by Seller in connection with the performance of the Order (including the existence and terms of the Order) and shall not divulge or use such specifications or information for the benefit of itself or any other party, except as required for the efficient performance of the Order. Upon completion of the Order, Supplier shall make no further use, either directly or indirectly, of any such specifications or information.
- **28. Disposal:** If applicable, Seller shall at all times retain title of ownership to any and all materials, substances or chemicals not incorporated into the work that Seller or any subcontractor brings onto Buyer's premises. Seller shall be solely responsible for the handling, transportation and disposal of any and all materials, substances and chemicals. Seller or any

subcontractor brings onto Buyer's premises, and any waste generated or resulting from the use thereof. Seller shall not dispose or permit the release of any materials, substance or chemical, or any waste generated or resulting from the use thereof on Buyer's premises. Seller shall handle, transport, and dispose of any and all substances and chemicals, including but not limited to hazardous wastes and substances as defined by applicable federal, state and local laws, rules, regulations, codes and ordinances.

- **29. Severability:** If any provision of this Agreement is held to be invalid, illegal or un- enforceable, either in whole or in part, that holding will not affect the validity, legality or enforceability of the remaining provisions of this Order
- 30. Original Excise Gate pass must accompany each delivery for excisable goods, if applicable.

SN Technical Specification

- **31.** The Seller will not claim without our knowledge any refund from the excise authorities for the amount of Central Excise duty on the supplies made to us. The Seller shall also undertake to refund to the Buyer all money recovered by him from Govt. authorities for which he has been paid by the Buyer.
- **32.** Unless a specific objection to each of the terms of this Purchase order is raised within 24 hours from the date of Purchase order/email under which this PO is sent, it shall be deemed to be accepted in full.
- **33. Supplier (Seller) Code of Integrity:** The Seller/ Supplier agrees to follow code of integrity and code of conduct as prescribed by General Financial Rules 2017.

## TENDER SPECIFICATION: 2D Mobile C-Arm with Flat Panel system

General  Mobile C-Arm with Flat Panel system shall be provided with a true counter-balanced C-Arm for fluoroscopic and X-ray operation.  A. Gantry / C-Arm  Fully counterbalanced C-Arm with side-to-side (wig-wag) and horizontal travel movements shall be provided with the following features:  Rotation movement shall be ±130° or more.
operation.  A. Gantry / C-Arm  Fully counterbalanced C-Arm with side-to-side (wig-wag) and horizontal travel movements shall be provided with the following features:
Fully counterbalanced C-Arm with side-to-side (wig-wag) and horizontal travel movements shall be provided with the following features:
following features:
Rotation movement shall be ±130° or more.
Angulation shall be at least 190° or more.
Horizontal movement shall be at least 200 mm or more.
Vertical movement shall be at least 40 cm and motorized.
Swivel range shall be ±10° or more.
Depth of immersion shall be at least 68 cm or more.
Free space within the C-Arm shall be at least 80 cm or more.
System boot-up time shall be less than or equal to 60 seconds.
System shall provide a uniform reference for the operator and physician during C-Arm positioning.
B. Generator & X-Ray Tube
Generator shall be microprocessor-controlled converter type with an output of at least 2.4 kW or more.
Modes shall include continuous, digital pulse fluoroscopy, and digital radiography.
Fluoroscopy range shall support 40–110 kV or better, with an mA range of 0.2 to 16 or better.
Digital exposure range shall have an mA range of 0 to 24 mA.
X-Ray tube shall be monoblock type with active/passive oil circulation.
The system shall operate at full capacity on 220 V AC, 15 A.
Generator shall provide digital pulse fluoroscopy with pulse rates up to 15 pulse per second or more.
System shall provide total filtration of at least 4 mm AI, including copper filtration for paediatric applications.
Focal spot sizes shall be clearly specified.
Automatic dose-rate control shall be provided.
Integrated laser light localizer with radiation-free collimation shall be included.
Multifunction footswitch shall control all modes and single image storage from the sterile field.
Inbuilt heat management shall be provided, or the heat storage capacity shall be at least 1 MHU.
Metal artefact reduction/metal correction shall be available in fluoroscopy and not only as a post-processing function.
C. Flat Panel Detector System & Medical Grade Display

- 1 Detector shall be CsI (Cesium Iodide) with amorphous silicon or IGZO technology.
- 2 Detector size shall be at least 20 cm × 20 cm.
- 3 Pixel size shall be 200 microns or less with 16-bit digitization.
- 4 Resolution shall be 1 K × 1 K or higher.
- 5 System shall provide last-image-hold capability displaying the last image after exposure termination.
- System shall be equipped with two high-resolution of size >/=19" HD LED/TFT monitors or a single of size >/= 23.8" touch-screen medical-grade monitor with an image matrix of at least 1024 × 1024.
- 7 Viewing angle shall be at least 89° with ergonomic mounting on the mobile view station.
- 8 The system shall allow image rotation, left-to-right and top-to-bottom reversals during live exposure or last-image-hold.
- 9 Resolution at display at full FOV shall be at least 1280 × 1024.
- 10 The Detective Quantum Efficiency shall be ≥70% at 0 lp/mm as per IEC 62220-1.

## D. Digital System & Image Management

- 1 System shall include a multi-patient database for handling large image quantities and dose management reports.
- 2 System shall auto-select kVp and mA during imaging and allow manual override.
- 3 Real-time automatic brightness and contrast control shall be provided to optimize the displayed image.
- <sup>4</sup> System shall store at least 50,000 images on the internal hard disk with retrieval facility.
- 5 Post-processing shall include real-time edge enhancement, electronic zoom, automatic save to hard disk, and mosaic display.
- 6 System shall allow retrieval of images and fluoro sequences on CD/DVD/Pen drive and printing on paper/film.
- <sup>7</sup> System shall include full DICOM functionality (HIS-compatible, send, Storage, & print) installed at no additional cost.

### E. Essential Accessories

- 1 Zero Lead Aprons
- 2 Thyroid & gonad Shields
- 3 Sterile covers for C-Arm, X-Ray tube, and Flat Panel Detector (disposable)
- 4 Lead Goggles
- 5 Lead Apron Stand
- 5 QA phantom set (2D)

## F. Terms & Conditions

- 1 The unit shall be European CE-approved / AERB type-approved for all components of the fluoroscopy system.
- 2 Equipment/materials originating from countries sharing a land border with India will not be accepted. Please specify the details
- 3 Vendor shall provide complete installation database with contact reference for the quoted model.

## 8 G. Consumables, Accessories & Procurement Terms

- The bidder shall provide a Rate Contract for 3 years from the date of supply / installation / commissioning, covering all system-specific consumables and accessories.
- 2 A complete itemized list of all consumables and accessories, including model/reference numbers and unit of measurement, shall be submitted in the Technical Offer (without prices).
- <sup>3</sup> The corresponding unit prices for the same items shall be submitted only in the Commercial Offer.

# TENDER SPECIFICATION: Mobile 3D C-Arm with Flat Panel system

Sn	Technical specifications for 3D C-Arm
	Mobile 3D C-Arm with Flat Panel system with a true counterbalanced C-arm for fluoroscopic and X-ray operation.
Α	Gantry / C-Arm
1	The system shall have a fully counterbalanced C-arm with complete motorized movements and the following features:
2	Motorized angulation movement shall be at least 220 degrees or more.
3	Motorized longitudinal (horizontal) movement shall be at least 200 mm or more.
4	Motorized orbital rotational movement shall be at least 180 degrees or more.
5	Motorized vertical movement shall be at least 420 mm or more.
6	Swivel range shall be ±10 degrees or more.
7	Depth of immersion shall be 68 cm or better.
8	Source-to-image distance shall be 1050 mm or better.
9	Free space within the C-arm shall be at least 840 mm.
10	The system shall provide a square field of view for better ROI coverage.
11	A touch-based control panel shall be provided for C-arm functions, mounted on the C-arm stand itself.
12	The system shall be capable of performing intra-operative 3D volume acquisition for skull and spine.
В	Generator and X-ray Tube Requirements
1	The generator shall be microprocessor-controlled converter type with an output of at least 25 kW.
2	The system shall provide modes for continuous, digital pulse fluoroscopy, and digital snapshot.
3	Fluoroscopic kVp range shall be 40–120 kV with up to 220 mA.
4	Radiographic kVp range shall be 40–120 kVp with a minimum of 250 mA or more.
5	The X-ray tube shall have a rotating anode.
6	The anode heat storage capacity shall be 360 KHU or higher.
7	The anode cooling capacity shall be 85 KHU/minute or higher.
8	The tube housing heat storage capacity shall be at least 5.3 MHU.
9	The system shall include additional safety-size filtration to reduce scattered radiation.
10	The focal spot size shall be dual — 0.3 mm and 0.6 mm.
11	Automatic dose rate control shall be provided.
12	Integrated laser light localizer and radiation-free collimation shall be available.
13	A multifunction footswitch shall be provided to control all operating modes and single image storage from outside the sterile field.
14	The system shall have inbuilt heat management capabilities for long interventional procedures.
15	An integrated dose monitoring chamber shall be provided.
16	The system shall have metal artefact reduction or metal correction capability.
17	Additional safety-size filtration shall be 3.9 mm Al equivalent or more.
18	The system shall have software functionality allowing free positioning of anatomy, even at the edge of the image detector, with automatic anatomy detection and parameter adjustment to produce high-quality images.
	Flat Panel Detector System
1	The flat detector shall be CsI (Cesium Iodide) with CMOS technology or amorphous silicon.
2	The detector size shall be at least 30 × 30 cm or more.
3	The pixel size shall be 194 microns or less.
4	The detector resolution shall be 1.5 K × 1.5 K or better.
5	Image inversion (right to left and top to bottom) shall be available.
	The system shall provide a "Last Image Hold" capability, ensuring that the last acquired image remains displayed on the monitor
6	after exposure termination.

#### **Digital System & Image Management** The system shall support a multi-patient database for large image storage, including dose management reports. The system shall automatically select proper imaging parameters (kVp and mA) during imaging but also allow manual override by 2 the user. 3 Real-time and automatic brightness and contrast control shall be provided for optimal image display. Real-time post-processing with edge enhancement shall be available for better image quality based on tissue density. Electronic zoom, auto-save to hard disk, and mosaic display functions shall be included. The system shall be capable of saving more than 100,000 (1 Lakh) images to the internal hard disk and retrieving them when 5 required. 6 The system shall have a facility to record online fluoroscopy. The system shall have provision for image and fluoroscopy sequence retrieval on CD/DVD/USB and printing of images on paper or film The system shall be DICOM-ready and support DICOM send/receive, print, query, and retrieve functions. It shall be HIS-8 compatible, and all DICOM features shall be provided and installed at no additional cost. 9 Facility for wireless data transfer shall be quoted as optional, if available. 10 The system shall have a touch control panel on the patient table side with preview image capability. 11 Position memory and position tracking shall be available. 12 The bidder shall specify whether the control panel on the patient table side with image preview is available. The system shall provide navigational aids such as one-touch road mapping, outlining on live fluoroscopy, and enhanced vessel visualization 3D Volume size shall be at least 16 cm × 16 cm × 16 cm with a resolution of 312 voxels or more. Slice planes shall include axial, sagittal, and coronal. 14 15 The resolution at full FOV shall be at least 1284 × 1024. 16 The system shall be equipped with high-resolution ≥ 32" UHD LED/LCD/TFT monitor(s), or two ≥ 19" diagnostic-quality monitors. 17 Contrast ratio shall be 1000:1 or better. 18 Viewing angle shall be at least 170 degrees with ergonomic mounting of the monitors on the mobile viewing station. The system shall allow the user to change image orientation on the display screen during live exposure or using the last image 19 hold, including image rotation, left-to-right, and top-bottom reversals 20 The system shall provide 3D reconstruction in ≤ 60 seconds from the completion of image acquisition. The system shall be capable of providing axial, sagittal, coronal, and oblique views, including metal artefact suppression. The system shall be capable to achieve image geometry accuracy with a deviation of ≤ 1 mm throughout the reconstructed volume; if yes, please provide supporting documentation or test data. 22 The system shall be compatible with radiolucent skull clamps, head frames, spine retractors, and navigation trackers. The vendor shall specify and provide a list of compatible makes and models. **Clinical Applications** The system shall support multi-specialty use: 1.1 Orthopaedics 1.2 Neurosurgery 1.3 Spine Fusion 1.4 Surgical Oncology 1.5 Urology 2 The system shall have DICOM compatibility package for network integration. System shall be capable of providing automatic CBCT reconstruction with axial, coronal, and sagittal MPR views; if yes, please 3 provide the relevant details. System shall be capable of providing motion correction during 2D/3D acquisition to compensate for minor patient movement; if yes, please provide the relevant details. 5 System shall be capable of providing metal artefact reduction (MAR) functionality; if yes, please provide the relevant details. System shall be capable of a high-contrast bone algorithm for screw and trajectory visualization; if yes, please provide the relevant 6 details. System shall be capable of providing an image enhancement suite, including edge enhancement, noise reduction, and contrast optimization; if yes, please provide the relevant details. System shall be capable of providing 3D volume measurement tools for distance and angle; if yes, please provide the relevant 8 details. Please specify if the system is capable of providing image annotation and reporting tools including text, arrows, angles, and labels; if yes, please provide the relevant details. System shall be capable of providing a diagnostic viewer for viewing both 2D and 3D datasets; if yes, please provide the relevant details.

- System shall be capable of capable of providing cine and review software for browsing 2D fluoroscopy sequences frame-by-frame; if yes, please provide the relevant details. 12 System shall be capable of exporting 3D datasets in DICOM format for navigation; if yes, please provide the relevant details. Please specify if the system is capable of supporting semi-automatic registration with navigation; if yes, please provide the relevant 13 details System shall be capable of providing dose management software including DAP display, cumulative dose display, and dose tracking; if yes, please provide the relevant details. System shall be capable of providing C-arm position memory for saving and recalling previous positions; if yes, please provide the 15 relevant details. **Essential Accessories:** Suitable online UPS to run the entire system for at least 30 minutes backup time. (To be quoted as optional) APRON ultra-light weight lead free (Skirt and Vest)
- Thyroid Shield
- Sterile covers for C-Arm, X-Ray tube and flat panel detector (disposable)
- 5 Lead Apron Stand
- 6 Standard Eyewear

The power cord shall comply with IS 1293:2019 (Indian Standard for 3-pin plugs and sockets) and bear the ISI mark. It shall be made of PVC (Polyvinyl Chloride) for durability and flame retardancy, with a temperature rating from -5°C to +70°C. The cord shall be flexible, with a length typically between 1.5 m and 3 m, with longer cords available as required.

- 8 QA phantom set (2D + 3D)
- 9 Sterile covers for C-Arm, X-ray tube, and Flat Panel Detector (disposable)
- Navigation integration kit as applicable

#### G Other Terms:

- The system shall be compatible, tested, and validated for integration with commonly used navigation and image-guidance platforms.
- It shall support interoperability with leading navigation systems. (Brain lab / Medtronic / Stryker / others)
- The vendor shall provide documented evidence of integration validation and demonstrate functional compatibility during installation and commissioning.
- The vendor shall provide compatibility certificates with at least two surgical navigation systems.

The system shall support automatic navigation registration, enabling reduced registration errors and improved workflow accuracy. The vendor shall clearly list all compatible navigation system makes and models that support this automatic registration

- 5 functionality
- The Digital Subtraction Angiography (DSA) package, including features such as real-time subtraction with re-masking capability, 6 road mapping, edge enhancement, and pixel shifting, shall be guoted as optional.
- Half spine radiolucent imaging table with all accessories, if available, shall be quoted as optional.
- 8 Table-side lead flap shall be quoted as optional.

phantom and detector calibration tools.

- The system shall comply with IEC 60601-1 and shall be CE-marked and/or FDA-approved for operating room (OR) usage.
- The system shall include a dose area product (DAP) meter, cumulative dose display, and smart dose protocols for optimized radiation exposure management.
- The system shall support DICOM Store, DICOM Worklist, Modality Performed Procedure Step (MPPS), and 3D DICOM
- 11 functionality Please specify if the system has QA and calibration features. If yes, please provide the relevant details including 3D geometric
- 13 Please specify whether system has the capability for auto-QA software with periodic reminders (Optional).
- The system shall be useful in minimally invasive spine (MIS) procedures, complex deformity correction, trauma surgery, deep brain stimulation (DBS), biopsy procedures, and endonasal skull base surgery. 14
- 15 The system shall provide CT-like multiplanar reconstructions within the operating room."

#### н **Consumables, Accessories & Procurement Terms:**

- The bidder shall provide a Rate Contract for 3 years from the date of supply/installation/commissioning, covering all system-specific consumables and accessories.
- A complete itemized list of all consumables and accessories, including model/reference numbers and units of measurement, shall be submitted in the Technical Offer (without prices).
- 3 The corresponding unit prices for the same items shall be submitted only in the Commercial Offer.

## Site acceptance additional requirements

- The system shall demonstrate a 3D scan on at least a phantom and a spine model.
- The system shall perform voxel size validation using the supplied phantom.
- The system shall undergo dose validation using a DAP meter.

4	Ļ	The system shall be tested for smooth orbital rotation.
Ę		The system shall support DICOM export of the reconstructed 3D dataset to PACS.

	ANNEXURE I: SCOPE OF SUPPLY (FOR TECHNICAL BID)									
	EQUIPMENT NAME				Flat Panel Mobile 2	2D C-Arm				
	VENDOR NAME									
	MAKE									
	MODEL NAME									
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD/OPTIONAL	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)		
		Mobile C-arm base unit with integrated X-ray				,		,		
1	Hardware	generator	1		STD					
2	Hardware	Flat Panel Detector (FPD)	1		STD					
3	Hardware	High-resolution medical grade display monitor	1		STD					
		Motorized vertical C-arm movements for precise								
4	Hardware	positioning Integrated workstation with image processing	1		STD					
5	Software	software DICOM compatibility package for network	1		STD					
6	Software	integration  Vascular imaging package-Basic software (Excluding DSA	1		STD					
8	Software Software	and Roadmap) Orthopaedic imaging package (Trauma and ortho (MSK & spine)	1		STD STD					

		Paediatric imaging						
9	Software	package	1		STD			
10	Software	Pain management	1		STD			
11	Software	Hand switch	1		STD			
		Footswitch for						
12	Accessory	hands-free operation	1		STD			
12	7.00000019	QA phantom set	'		OID			
13	Accessory	(2D)	1		STD			
	Accessory	Apron, ultra- lightweight, lead-						
		free (Skirt and						
14		Vest)	4		STD			
4.5	Accessory	Thyroid & gonad	4		OTD			
15	Accessory	shields	4		STD			
16	·	Lead goggles	1		STD			
17	Accessory	Lead apron stand	1		STD			
	Accessory	Two-fold lead barrier with lead						
18		glass window	1		STD			
		Sterile covers for						
		C-Arm, X-ray						
		tube, and Flat Panel Detector						
19	Consumables	(disposable)	100 each		STD			
	Any other part to make system complete &	, ,						
20	working Any item, accessory, consumable, cable,				STD			
	connector, software, or component that is part of							
	the system as per tender requirements but not							
	explicitly mentioned or itemized in the BOQ shall							
	be deemed included in the scope of supply and must be provided by the vendor without additional							
	cost. The vendor may list such items under							
	"Standard Inclusions (Not Separately Charged)"				0.70			
21	for documentation purposes.				STD	REMARKS (VENDOR		
						ARE REQUESTED TO		
						MAP THEIR ITEMS IN		
				VENDOR		THEIR PROFORMA INVOICE WITH		QUOTE PAGE
		OPTIONAL ITEM		CATALOGUE		ENCLOSED LINE	QUOTE	REFERENCE IF
SNO	OPTIONAL GROUP	NAME	QUANTITY	NUMBER	STANDARD/OPTIONAL	ITEMS)	REFERENCE:SN)	APPLICABLE)
1		Remote						
		diagnostics and						

2	Others to be added below	DAP meter and dose analytics			
3					
4					
5					
6					

	ANNEXURE II: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME		Flat Panel Mobile 2D C-Arm										
	VENDOR NAME												
	MAKE												
	MODEL NAME												
				VENDOR CATALOGUE		REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED	QUOTE	QUOTE PAGE REFERENCE IF	UNIT	TOTAL COST FOR THE QUANTITY	GST	TOTAL COST WITH	
SNO	GROUP		QUANTITY	NUMBER	STANDARD/OPTIONAL	LINE ITEMS)	REFERENCE:SN)	APPLICABLE)	PRICE	MENTIONED	%	GST	
1	Hardware	Mobile C-arm base unit with integrated X- ray generator	1		STD								
2	Hardware	Flat Panel Detector (FPD)	1		STD								
3	Hardware	High- resolution medical grade display monitor  Motorized vertical C-arm movements for	1		STD								
4	Hardware	precise positioning	1		STD								

		1		I	1					1	
		Integrated									
		workstation									
		with image									
		processing									
5	Software	software	1		STD						
		DICOM									
		compatibility									
		package for									
		network									
6	Software	integration	1		STD						
		Vascular									
		imaging									
		package-Basic									
		software									
		(Excluding									
		DSA and									
_	0 - #		4		OTD						
7	Software	Roadmap)	1		STD						
		Orthopaedic									
		imaging									
		package									
		(Trauma and									
		ortho(MSK &									
8	Software	spine)	1		STD						
		Paediatric									
		imaging									
9	Software	package	1		STD						
		Pain									
10	Software	management	1		STD						
11	Software	Hand switch	1		STD						
		Footswitch for									
		hands-free									
12	Accessory	operation	1		STD						
		QA phantom									
13	Accessory	set (2D)	1		STD			<u> </u>			
	Accessory	Apron, ultra-									
		lightweight,									
		lead-free (Skirt									
14		and Vest)	4		STD						
	Accessory	Thyroid &									
15	, 1000001 y	gonad shields	4		STD						
	Accessory							<u> </u>		<del>                                     </del>	
16	•	Lead goggles	1		STD						
	Accessory	Lead apron									
17		stand	1		STD						
	Accessory	Two-fold lead									
	,	barrier with									
		lead glass									
18		window	1		STD						
			•	1		I	1	l	I	ı	

		Sterile covers							1			1 1
		for C-Arm, X-										
		ray tube, and										
		Flat Panel										
		Detector										
19	Consumables	(disposable)	100 each		STD							
	Any other part to make											
	system complete &											
20	working				STD							
	Any item, accessory,											
	consumable, cable,											
	connector, software, or											
	component that is part of											
	the system as per tender requirements but not											
	explicitly mentioned or											
	itemized in the BOQ shall											
	be deemed included in											
	the scope of supply and											
	must be provided by the											
	vendor without additional											
	cost. The vendor may list											
	such items under											
	"Standard Inclusions (Not											
	Separately Charged)" for											
21	documentation purposes.				STD							
		T	ı		Grand Tota		I	r	•	1		
						REMARKS						
						(VENDOR ARE						
						REQUESTED TO MAP THEIR						
						ITEMS IN THEIR						
						PROFORMA		QUOTE PAGE		TOTAL COST		TOTAL
				VENDOR		INVOICE WITH		REFERENCE		FOR THE		COST
		OPTIONAL		CATALOGUE		ENCLOSED	QUOTE	IF	UNIT		GST	WITH
	OPTIONAL GROUP	ITEM NAME	QUANTITY	NUMBER	STANDARD/OPTIONAL	LINE ITEMS)	REFERENCE:SN)	APPLICABLE)	PRICE		%	GST
		Remote										
		diagnostics										
1.		and support										
1		capability							ļ			
		DAP meter										
		and dose										
2	011 1 1 1 1 1 1	analytics										
3	Others to be added below											
1 4		ĺ	İ		1		1	1	1	1		
4												

6						
7						

		ANNEXUR	E I: SCOPE (	OF SUPPLY (FC	R TECHNICAL BID)			
	EQUIPMENT NAME				Flat Panel Mobile 3D C-	Arm		
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD/OPTIONAL	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)		QUOTE PAGE REFERENCE IF APPLICABLE)
SINO	GROOF	Mobile C-arm base unit	QUANTITI	NOWIDER	STANDARD/OF HONAL	LINE ITEMS)	REFERENCE.SN)	AFFLICABLE)
1	Hardware	with integrated X-ray generator	1		STD			
2	Hardware	Flat Panel Detector (FPD)	1		STD			
		High-resolution medical grade digital display						
3	Hardware	monitor	1		STD			
4	Hardware	Additional medical grade monitor for dual display setup as required Motorized C-arm	1		STD			
5	Hardware	movements for precise positioning	1		STD			
		Automatic position control with electromagnetic brakes to lock/unlock C-						
6	Hardware	arm	1		STD			
7	Hardware	Surgical navigation integration module	1		STD			
8	Hardware	Dose monitoring (Integrated with the system or from third party OEM)	1		STD			
9	Hardware	Integrated workstation with image processing software	1		STD			
		DICOM compatibility package for network	1					
10	Software	integration	1		STD			

		Surgical navigation				
11	Software	integration module	11	STD		
12	Software	Multi-speciality module (Apart from DSA)	1	STD		
13	Software	Vascular	1	STD		
14	Software	Paediatric	1	STD		
15	Software	Orthopaedic	1	STD		
16	Software	Neuro Spine Fusion	1	STD		
17	Software	Surgical Oncology	1	STD		
18	Software	Urology	1	STD		
19	Software	Cardiac	1	STD		
20	Software	Remote diagnostics and support capability	1	STD		
21	Accessory	Wireless footswitch for hands-free operation	1	STD		
22	Accessory	Surgical navigation integration module	1	STD		
23	Accessory	QA phantom set (2D + 3D)	1	STD		
	Accessory	Apron, ultra-lightweight,				
24		lead-free (Skirt and Vest)	4	STD		
25	Accessory	Thyroid and gonad shields	4	STD		
26	Accessory	Lead goggles	4	STD		
27	Accessory	Lead apron stand	1	STD		
28	Accessory	Two-fold lead barrier with lead glass window	1	STD		
		Sterile covers for C-Arm, X-				
29	Consumables	ray tube, and Flat Panel Detector (disposable)	100 each	STD		
29	Any other part to make system complete &	Detector (disposable)	100 each	טופ		
30	working			STD		
	Any item, accessory, consumable, cable,					
	connector, software, or component that is					
	part of the system as per tender					
	requirements but not explicitly mentioned or itemized in the BOQ shall be deemed					
	included in the scope of supply and must					
	be provided by the vendor without					
	additional cost. The vendor may list such					
	items under "Standard Inclusions (Not					
	Separately Charged)" for documentation					
31	purposes.			STD		

_								
						REMARKS (VENDOR		
						ARE REQUESTED		
						TO MAP THEIR		
						ITEMS IN THEIR		
				VENDOR		PROFORMA INVOICE		QUOTE PAGE
				CATALOGUE		WITH ENCLOSED	QUOTE	REFERENCE IF
SN	O OPTIONAL GROUP	OPTIONAL ITEM NAME	QUANTITY	NUMBER	STANDARD/OPTIONAL	LINE ITEMS)	REFERENCE:SN)	APPLICABLE)
		The digital subtraction				,	,	,
		Angiography (DSA)						
		package has features like						
		DSA real-time subtraction						
		with re-masking capability,						
		road mapping, edge						
		enhancement, and pixel						
1		shifting						
		Automatic screw						
		localisation post						
		implantation scan for the						
		simultaneous viewing of						
		screw in axial, coronal and						
		sagittal plane. (To be						
2		quoted if available)						
		Any other features for DSA-						
		like Multi frame and single						
		frame roadmap. (To be						
3		quoted if available)						
		Half spine radiolucent						
		imaging table with all						
		accessories (To be quoted						
4		if available)						
5		Suitable online UPS						
6	Others to be added below							
7								

				ANNEXURE	II: SCOPE OF SUPPLY (	FOR COMMERCI	AL BID)					
	EQUIPMENT NAME				Flat Panel Mobile	3D C-Arm and Flu	uoroscopy System					
	VENDOR NAME											
	MAKE											
	MODEL NAME											
	MODEL NAME					REMARKS						
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD/OPTIONAL	(VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)	UNIT PRICE		GST %	TOTAL COST WITH GST
ONO	Ortool	Mobile C-arm base	QO/MITTI	NONDER	OTT TO THE TOTAL	LINE IT LIVIO	TELLETTOE.OTT)	/II I LIO/IBLL)	TRIOL	WENTIONED	70	001
		unit with integrated										
1	Hardware	X-ray generator	1		STD						igwdot	
2	Hardware	Flat Panel Detector (FPD)	1		STD						1	
3	Hardware	High-resolution medical grade digital display monitor	1		STD							
		Additional medical grade monitor for dual display setup	•									
4	Hardware	as required	1		STD							
5	Hardware	Motorized C-arm movements for precise positioning Automatic position	1		STD							
		control with electromagnetic brakes to										
6	Hardware	lock/unlock C-arm	1		STD						$\longmapsto$	
7	Hardware	Surgical navigation integration module	1		STD							
		Dose monitoring (Integrated with the system or from										
8	Hardware	third party OEM)	1		STD						$\longmapsto$	
9	Hardware	Integrated workstation with image processing software	1		STD							

		DICOM							
		compatibility package for							
10	Software	network integration	1	STD					
		Surgical navigation							
11	Software	integration module	1	STD					
		Multi-speciality							
12	Software	module (Apart from DSA)	1	STD					
13	Software	Vascular	1	STD					
			-						
14	Software	Paediatric	1	STD					
15	Software	Orthopaedic	1	STD					
16	Software	Neuro Spine Fusion	1	STD					
17	Software	Surgical Oncology	1	STD					
18	Software	Urology	1	STD					
19	Software	Cardiac	1	STD					
13	Contware	Remote	'	OID					
		diagnostics and							
20	Software	support capability	1	STD					
		Wireless footswitch for hands-free							
21	Accessory	operation	1	STD					
	•	Surgical navigation							
22	Accessory	integration module	1	STD					
23	Accessory	QA phantom set (2D + 3D)	1	STD					
	Accessory	Apron, ultra-		0.5					
		lightweight, lead-							
24		free (Skirt and Vest)	4	STD					
24	Accessory	Thyroid and gonad	- +	310					
25		shields	4	STD					
26	Accessory	Lead goggles	4	STD					
27	Accessory	Lead apron stand	1	 STD					
	Accessory	Two-fold lead							
28		barrier with lead glass window	1	STD					
20		Sterile covers for	ı	עוט		+			
		C-Arm, X-ray tube,							
		and Flat Panel							
29	Consumables	Detector (disposable)	100 each	STD					
23	COHSUITIANIES	(uisposable)	100 Cacil	סוט	1	1	1		

A	Any other part to make											
30	system complete & working				STD							
	Any item, accessory,											
	consumable, cable,											
	connector, software, or											
	component that is part											
	of the system as per tender requirements											
	but not explicitly											
r	mentioned or itemized											
	in the BOQ shall be											
	deemed included in											
	the scope of supply											
	and must be provided											
	by the vendor without											
	additional cost. The											
	vendor may list such items under "Standard											
"	Inclusions (Not											
	Separately Charged)"											
	for documentation											
31	purposes.				STD							
					Grand Total							
						REMARKS						
						(VENDOR ARE						
						REQUESTED TO MAP THEIR						
						ITEMS IN						
						THEIR						
						PROFORMA		QUOTE PAGE		TOTAL COST		TOTAL
				VENDOR		INVOICE WITH		REFERENCE		FOR THE		COST
		OPTIONAL ITEM		CATALOGUE		ENCLOSED	QUOTE	IF	UNIT	QUANTITY	GST	WITH
	OPTIONAL GROUP		QUANTITY	NUMBER	STANDARD/OPTIONAL	LINE ITEMS)	REFERENCE:SN)	APPLICABLE)	PRICE	MENTIONED	%	GST
		The digital subtraction										
		Angiography (DSA)										
		package has										
		features like DSA										
		real-time										
		subtraction with re-										
		masking capability,										
		road mapping,										
		edge										
1		enhancement, and pixel shifting										
		Automatic screw										
2		localisation post										

implantation scan for the simultaneous viewing of screw in axial, coronal and sagittal plane. (To be quoted if available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below								
for the simultaneous viewing of screw in axial, coronal and sagittal plane. (To be quoted if available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online  Others to be added 6 below			implantation scan					
viewing of screw in axial, coronal and sagittal plane. (To be quoted if available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  4 Suitable online  Others to be added 6 below								1
axial, coronal and sagittal plane. (To be quoted if available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added 6 below								
axial, coronal and sagittal plane. (To be quoted if available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added 6 below			viewing of screw in					1
be quoted if available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below			axial, coronal and					
available)  Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below			sagittal plane. (To					
Any other features for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  5 Others to be added below			be quoted if					1
for DSA-like Multi frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below								
frame and single frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below			Any other features					
frame roadmap. (To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below			for DSA-like Multi					
(To be quoted if available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below			frame and single					
3 available)  Half spine radiolucent imaging table with all accessories (To be quoted if available)  Suitable online UPS  Others to be added below			frame roadmap.					ı
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# Annexure III: Checklist for Technical Bid to be completed and attached along with the tender submission

CHECKLIST FOR VENDOR BEFORE SENDING THE TECHNICAL BID								
SI. No.	Checklist parameter	Yes/ No	Tender reference					
1	A covering letter, compliance statement, and all pages of the tender document duly signed and sealed by the authorized signatory, as part of the tender compliance, must be enclosed with the technical bid.							
2	Availability of technical proposal need to be provided with separate sealed envelope, mentioning on its envelope IISc tender reference number (PLEASE DO NOT INCLUDE COMMERCIAL BID IN TECHNICAL ENVELOPE)		Section A - point 1					
3	Availability of technical offer (without cost) with model number and make for the quoted model enclosed in technical bid.		Section A - point 1					
4	Availability of the Declaration of warranty period (as required in tender) for the quoted model to be enclosed on the technical bid.		Section A - point 9					

5	Availability of the technical compliance table with six columns for the quoted model to be enclosed on the technical bid. Please provide both pdf and worksheet like excel format	Section A - point 4
6	Availability of the technical compliance with datasheet and technical offer page number reference for the quoted model to be enclosed on the technical bid.	Section A - point 4. f
7	Availability of the quoted model technical advantage over comparable equipment from the competitor to be enclosed on the technical bid.	Section A - point 5
8	Availability of the scope of supply (BOQ) as per tender to be enclosed along with technical bid. Please provide both pdf and worksheet like excel format (Excluding cost)	
9	Availability of brochure and any supporting document to validate technical compliance for the quoted model enclosed in technical bid.	Section B - point 8
10	Availability of the technical datasheet for the quoted model, with the relevant specifications highlighted in reference to the Tender technical requirements, must be enclosed with the technical bid.	Section B - point 8
11	Availability of the regulatory certificate (like CDSCO/CE/FDA/ISO/AERB type approval where applicable) for the quoted model to be enclosed on the technical bid.	Section C-Point 17-i
12	Availability of the manufacturer authorization letter for the quoted model to be enclosed on the technical bid where applicable.	Section B - point 1
13	Availability of the list of installation sites with contact details for the quoted model to be enclosed on the technical bid.	Section B - point 5
14	Availability of the confirmation letter on 10 Years of spares support for the quoted model to be enclosed on the technical bid.	Section C - point 5.1
15	Availability of the Details of local service center with technical manpower for the quoted model to be enclosed on the technical bid.	Section C - point 17. f
16	Availability of the Power supply & environmental requirement details for the quoted model to be enclosed on the technical bid.	Section C - point 13. a
17	Availability of the deviation statement from tender terms (with justification) for the quoted model to be enclosed on the technical bid.	Section C - point 18. b
18	The soft copy of technical bid only in both excel and pdf format to be made available in pen drive for the quoted model and enclosed on the technical bid envelope. The pen drive to be labelled with tender reference number and vendor name	Section C - point 19
19	Any open recall or Field Safety Corrective Action (FSCA) associated with the quoted model shall be <b>fully disclosed</b> by the bidder in the technical bid submission.	Section C-Point 3.12

## Annexure IV: Checklist for Commercial Bid to be completed and attached along with the tender submission

	Checklist for Commercial Bid	Yes/No	Remarks
SI. No.	General Requirements		
11	Commercial offer should be in complete alignment with technical offer as mentioned in point no 3 of technical offer checklist		
2	Availability of commercial quote need to be provided with separate sealed envelope, mentioning on its envelope IISc tender reference number		
3	The scope of supply (BOQ) with commercial details should be in align with technical offer mentioned in point 8 of technical offer checklist		
4	The country of origin is clearly mentioned.		
5	Word "quote" should be mentioned in the first page instead of Proposal		
6	The quote should be signed and sealed. If a digital signature is used, it is clearly indicated		
7	The validity period of the quote is clearly mentioned		
8	Commercial Quote to be prepared on letter head of the company and it should include		
8.1	· Registered office address and billing address		
8.2	· Company GST number should be mentioned on the first page		
8.3	· Validity		
8.4	· Payment Terms – 70% payment on shipment, 20% payment after Installation & commissioning, and remaining 10 % on user satisfaction.		
8.5	· Warranty details		
8.6	· HSN code of items: Each item shall be listed with its <b>HSN code</b> along with supporting document/literature clarifying the HSN classification.		
9	The total amount to be mentioned as unit price, GST percentage, Total price inclusive of tax, total price for total quantity mentioned in the tender)		
10	Breakup of cost to be given as annexure for all the line items and it should include:		
10.1	· Equipment cost- with GST		
10.2	· Accessories- with GST		
10.3	· Consumables- with GST		
10.4	· Other Items- with GST		
	(Tax should be clearly mentioned as IGST 18% or With CGST 9% and SGST 9% or as applicable)		
11	OEM certificate or Authorized distribution letter to be attached		
12	Additional documents required:		
12.1	List of critical spare parts and their estimated unit price. (Item cost should not exceed 30% of the total equipment value)		
12.2	Vendor shall provide a supporting document clearly specifying the AMC and CAMC rates as fixed absolute values per year for each of the nine (9) years after the warranty period.		

12.3	Rate Contract for 3 years from the date of supply / installation / commissioning, covering all system-specific consumables and accessories.	
12.4	Quotation for the one-time maintenance call cost (On call charges)	