Date: 05.01.2026

Tender (Ref: IISc-Med-2025-26/G-24)

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 a complete endoscopy system for diagnostic and therapeutic applications at IISc Bangalore.

The scope shall include the endoscopy processor, light source, compatible flexible endoscopes (as applicable for upper GI, lower GI, bronchoscopy, or related procedures), display monitors, control units, image and video recording modules, data storage and connectivity interfaces, trolley or mounting systems, accessories, consumables required for routine operation, and all necessary safety, electrical, and integration components for complete functional deployment. All components offered shall be OEM-manufactured or OEM-authorized to ensure full compatibility, performance reliability, biocompatibility, and compliance with applicable international safety and quality standards.

The system shall provide high-quality visualization and image processing capabilities to support accurate detection, diagnosis, and therapeutic management of gastrointestinal and airway conditions. It shall enable clear visualization of mucosal and submucosal structures, facilitate precise identification of pathological findings, and support safe and effective endoscopic interventions. The system shall be suitable for routine diagnostic procedures as well as advanced therapeutic applications, ensuring patient safety, workflow efficiency, and clinical reliability across adult and pediatric patient populations, where applicable.

At IISc, the proposed clinical services are being developed in alignment with advanced diagnostic, interventional, and translational research objectives, integrating state-of-the-art endoscopy technologies within a multidisciplinary clinical-academic environment. Vendors are advised to consider the institutional scope, procedural complexity, research orientation, and long-term scalability requirements while preparing their technical and commercial proposals.

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 two separate sealed envelopes. Only vendors who meet the technical requirement will be considered for the commercial negotiation.
2. The deadline for submission of proposals is **26th January, 2026, 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 bid.
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 3rd 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, and required middleware 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)** 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

SN	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	
15	Main Unit - hardware 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.	
16	Main Unit - software as per Purchase Order (Vendor-signed PO and list of software supplied as per PO with invoice) to be enclosed as part of the commissioning documentation.	
17	OEM items 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.	
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.	
22	Set of service manuals (1 hard copy & 1 PDF soft copy) to be handed over to the 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).	
25	Equipment demo training information materials like PPT/Video to be handed over to the Clinical Engineering department.	
26	Duly signed letter from the vendor organization head (MD/CEO) stating that the supplied unit, accessories & OEM items are brand new from the factory, to be enclosed as part of the commissioning documentation.	
27	Quality test certificate of equipment from the factory, duly signed by the factory	

	production in-charge, to be enclosed as part of the commissioning documentation.	
28	Software license document (PDF); including OS, system and application software, and 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.	
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 training module, to be enclosed as part of the commissioning documentation.	
34	Preventive maintenance frequency calculated based on Equipment Risk Classification, 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 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.	
40	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.) along with a duly filled PM checklist. If physical copies are not available, soft copies 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 enclosed as part of the commissioning documentation.	
44	Commissioning report should include (IQ/PQ/OQ) as part of equipment commissioning 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 time of commissioning of equipment, to be enclosed as part of the commissioning 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 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.	
52	Short shipped items (if any) with quantity. The warranty will start only after full supply, 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.	
54	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 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.	
55	Any adverse events and recalls related to the equipment, if reported, need to be intimated to IMSF in a timely manner to ensure patient & staff safety by the vendor.	
	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	

GENERAL TERMS AND CONDITIONS FOR COMPREHENSIVE/LABOUR MAINTENANCE CONTRACT(CMC/AMC)	
1) ALL TERMS AND CONDITIONS REMAIN UNCHANGED AS PER SALES PO	
2) AMC & CMC VALID FROM _____ TO _____	
3) THIS 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, guests, 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.
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.

ANNEXURE-1) TENDER SPECIFICATION

SN	1)TECHNICAL SPECIFICATION FOR UPPER GASTROINTESTINAL ENDOSCOPY SYSTEM
A	**PRODUCT OVERVIEW**
1	The Upper Gastrointestinal Endoscopy System shall be a high-performance, fully digital 4K platform with advanced imaging capabilities, designed to ensure accurate diagnosis, enhance patient safety, and allow seamless integration into clinical workflows.
B	**VIDEO PROCESSOR SPECIFICATIONS**
1	The system shall provide advanced visualization capabilities that enable clear and enhanced imaging of both mucosal and submucosal vasculature, allowing precise identification of bleeding points and subtle deeper vascular abnormalities.
2	This capability shall be critical during active gastrointestinal bleeding and for accurate assessment of lesion vascularity.
3	The system shall distinctly enhance visualization of subtle mucosal changes, flat or early neoplastic lesions, and provide clear demarcation of lesion margins, supporting early detection of precancerous and malignant conditions and significantly reducing lesion miss rates in both upper and lower GI endoscopic examinations.
4	The integrated video processor with light source shall incorporate multiple LEDs with the capability to generate amber light, improving visualization of bleeding points and deeper blood vessels not clearly visible under conventional white light imaging.

5	The processor shall include image-enhancement technology that optimizes brightness, color, and surface-detail contrast, improving visualization of subtle mucosal abnormalities and supporting early detection of precancerous and cancerous lesions.
6	The system shall support enhanced endoscopic image quality with 4K display, providing superior resolution, clarity, and effective magnification for detailed visualization of fine mucosal structures during diagnostic and therapeutic procedures without loss of image detail.
7	The Video Processor shall be a fully digital system, integrating Digital Signal Processing, 4K CCD/CMOS sensors, and the latest digital video processing technology.
8	The Video Processor shall have 4K (12G HD-SDI) and 3G-HD SDI output signal capabilities.
9	The Video Processor shall be equipped with special detection technology for detailed observation by enhancing visibility of blood capillaries and mucosa.
10	The system shall offer advanced wavelength-based image enhancement to improve visualization of deep and superficial blood vessels and bleeding points.
11	The Video Processor shall contain portable memory (minimum 2 GB), a USB slot for image recording, and at least 1 GB internal buffer memory.
12	The Video Processor shall have brightness control for distant visualization: automatic and manual.
13	The Video Processor shall be capable of Picture-in-Picture display and index function.
14	The Video Processor shall have memory backup for settings.
15	The Video Processor shall include a pre-freeze function to select the clearest still image automatically and noise reduction technology.
16	Keyboard/TFT interface shall be available for data inputs.
17	The Video Processor shall provide color correction facilities.
18	Electronic magnification shall be available on scope switch/keyboard/TFT to enlarge structures by at least 1.2X.
19	Automatic IRIS control shall be featured to reduce manual adjustment.
20	Data storage shall allow patient data storage for at least 35–45 patients.
21	USB port shall allow portable memory storage of still images.
22	Pre-Freeze function shall automatically select the clearest still image.
23	Auto white balance, digital zoom, and noise reduction features shall be available.
C	**UPPER GASTROINTESTINAL VIDEOSCOPE ADULT**
1	The adult videoscope shall have increased depth of field for detailed visualization of mucosal surface architecture and microvascular patterns.
2	The videoscope shall provide enhanced visualization capabilities enabling precise identification of active bleeding points.
3	The videoscope shall facilitate detection of subtle deeper vascular abnormalities, flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The videoscope shall be equipped with near and distant focus imaging capability.
5	Field of view shall be at least 140° in normal and close focus.
6	The system shall support forward viewing with an auxiliary water channel.
7	The system shall provide extended depth-of-field imaging for consistent clarity and sharp focus across a wider depth range with minimal blind spots.
8	Depth of field close focus shall be at least 2–5 mm or better.

9	Depth of field for normal focus shall be at least 3–100 mm or better.
10	Insertion tube outer diameter shall be 10 mm or better.
11	Working length shall be at least 1000 mm or more.
12	Instrument channel inner diameter shall be 2.7 mm or more.
13	Bending section angulation range shall be at least 210° upward and 90° downward or better.
14	Bending section angulation range shall be at least 100° left and 100° right.
15	Distal end diameter shall be 10 mm or less.
16	System shall provide a distal end cover for scope safety.
17	System shall provide a distal hood (black hood) for advanced procedures and better visualization.
18	System shall provide compatible biopsy forceps.
D	**UPPER GASTROINTESTINAL VIDEOSCOPE THERAPEUTIC**
1	Therapeutic videoscope shall have increased depth of field for detailed mucosal visualization.
2	Field of view shall be at least 140°.
3	The system shall support forward viewing with an auxiliary water channel.
4	Depth of field focus shall be at least 2–100 mm or better.
5	Insertion tube outer diameter shall be 10.9 mm or better.
6	Working length shall be at least 1000 mm or more.
7	Instrument channel inner diameter shall be 3.5 mm or more.
8	Minimum visible distance shall be 4 mm or less from the distal end.
9	Bending section angulation range shall be at least 210° upward and 90° downward or better.
10	Bending section angulation range shall be at least 100° left and 100° right.
11	Distal end diameter shall be 10 mm or less.
12	System shall provide distal end cover for scope safety.
13	System shall provide distal hood (black hood) for advanced procedures and better visualization.
14	System shall provide compatible biopsy forceps.
E	**UPPER GASTROINTESTINAL PEDIATRIC VIDEOSCOPE**
1	Paediatric videoscope shall have increased depth of field for detailed mucosal visualization.
2	The system shall provide enhanced visualization enabling precise identification of active bleeding points and subtle deeper vascular abnormalities, facilitating detection of flat or early neoplastic lesions.
3	Field of view shall be at least 140°.
4	The system shall support forward viewing.
5	Depth of field normal focus shall be at least 3–100 mm.
6	Insertion tube outer diameter shall be 6 mm or less.
7	Working length shall be at least 1000 mm.
8	Instrument channel inner diameter shall be 2 mm or more.
9	Bending section angulation range shall be at least 210° upward and 90° downward or better.
10	Bending section angulation range shall be at least 100° left and 100° right or better.

11	Distal end diameter shall be 5.5 mm or less.
12	System shall provide distal end cover.
13	System shall provide distal hood (black hood) for advanced procedure and better visualization.
14	System shall provide compatible biopsy forceps.
F	**UPPER GASTROINTESTINAL ADULT ZOOM SCOPE**
1	Zoom scope shall have increased depth of field for detailed mucosal visualization.
2	Scope shall allow seamless transition from general evaluation to high-magnification visualization, supporting identification of subtle, flat, or early neoplastic lesions, facilitating targeted biopsies, and enhancing early cancer detection.
3	Normal field of view shall be 140° or more.
4	Close field of view shall be at least 85° or better.
5	The system shall support forward viewing.
6	Normal working distance shall be at least 8–100 mm or better for comprehensive luminal assessment.
7	Close working distance shall be 1.6–3 mm or better for detailed mucosal inspection.
8	Insertion tube outer diameter shall be 10 mm or less.
9	Working length shall be at least 1000 mm.
10	Instrument channel inner diameter shall be 2 mm or more.
11	Bending section angulation range shall be at least 210° upward and 90° downward or better.
12	Bending section angulation range shall be at least 100° left and 100° right or better.
13	System shall provide distal end cover.
14	System shall provide distal hood (black hood) for advanced procedure and better visualization.
G	**BALLOON ENTEROSCOPE**
1	The balloon enteroscope should have an extended depth of field for endoscopy and incorporate special detection technologies to enable detailed visualization of mucosal surface architecture and microvascular patterns.
2	The balloon enteroscope shall provide enhanced visualization capabilities enabling precise identification of active bleeding points.
3	The balloon enteroscope shall provide enhanced visualization of subtle and deeper vascular abnormalities, facilitate detection of flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The field of view shall be at least 140 degrees or better.
5	The system shall support forward viewing.
6	The depth of field in focus mode shall be at least 3–100 mm or better.
7	The insertion tube outer diameter shall be 9.3 mm or less.
8	The working length shall be at least 2000 mm or more. Please specify if a greater range is available and provide details.
9	The instrument channel inner diameter shall be 3.2 mm or more.
10	The bending section angulation range shall be at least 180 degrees upward and 180 degrees downward.
11	The bending section angulation range shall be 160 degrees to the right and 160 degrees to the left, if available.
12	Compatible biopsy forceps shall be provided.

H	**BALLOON CONTROL UNIT**
1	The system should have an automatic pressure control function.
2	Balloon control options should be available both on the front panel and via remote control.
3	Balloon pressure should be 5.4 kPa or better.
I	**SINGLE USE SPLINTING TUBE**
1	A compatible single-use splinting tube should be provided.
J	**4K LCD MONITOR SPECIFICATIONS**
1	Monitor shall be at least 32-Inch LCD/OLED Medical Grade with 4K resolution.
2	Monitor shall be compatible with advanced image multiple enhancer/equivalent technology.
3	Monitor shall route 4K video signals via a single 12G-HD SDI output.
4	Monitor shall provide multiple display modes such as PIP and POP.
5	Monitor shall include CLONE OUT for 12G-SDI to duplicate video signals, including PIP/POP, to a second monitor or recording device.
6	Monitor shall accept various video signal inputs including 12G-SDI, HDMI, and 3G-SDI.
7	Monitor shall display at least 1 billion colours.
K	**IRRIGATION PUMP**
1	Pump shall be able to irrigate fluid via the auxiliary water channel.
2	Pump shall be microprocessor controlled.
3	Pump shall have a water container with a minimum capacity of 2 litres.
4	Pump shall have an adjustable flow rate feature.
5	Water container and lid shall be autoclavable.
6	Tubing's and adaptors for irrigation pump shall be provided.
I	**CO2 INSUFFLATOR SYSTEM**
1	System shall have one-button start/stop operation and timer function to automate CO2 insufflation shutoff.
2	System shall provide low flow and extra low flow tube options.
3	System shall provide pressure feed of at least 45 kPa.
4	CO2 hose pipe for insufflator shall be provided.
J	**4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	Software shall be the latest version to transfer data from the video processor to computers and shared network.
2	Software shall include 4K image capturing and 4K video recording for archiving and documentation, user-friendly interface, recording and editing of still/moving frames, and report generation.
3	Foot switch and image capture dongle shall be provided with the software.
4	Software shall support DICOM and HL7 standards.
5	System shall include 4K grabber card and software for image archiving/documentation, featuring recording/editing still and moving frames, report generation, and foot pedal control.
L	**ENDOSCOPIC TROLLEY**
1	The trolley should be made of SS 304 stainless steel/ MS powder coated.

2	The trolley should have four clustered wheels for smooth mobility.
3	The trolley should include a scope hanger to securely hold the scope during procedures.
4	The trolley should have provisions to accommodate the video processor and monitor.
5	The trolley should be equipped with an integrated power button, power sockets, and attached power cords.
6	Should quote the cart to pendant upgrade as optional
M	**COMPUTER SYSTEM SPECIFICATIONS**
1	Vendor shall provide the computer and printer specifications required for this endoscopy system.

SN	2)TECHNICAL SPECIFICATION FOR LOWER GASTROINTESTINAL ENDOSCOPY SYSTEM
A	**PRODUCT OVERVIEW**
1	The Lower Gastrointestinal Endoscopy System shall be a high-performance, fully digital 4K platform with advanced imaging capabilities, designed to ensure accurate diagnosis, enhance patient safety, and allow seamless integration into clinical workflows.
B	**VIDEO PROCESSOR SPECIFICATIONS**
1	The system shall provide advanced visualization capabilities that enable clear and enhanced imaging of both mucosal and submucosal vasculature, allowing precise identification of bleeding points and subtle deeper vascular abnormalities.
2	This capability shall be critical during active gastrointestinal bleeding and for accurate assessment of lesion vascularity.
3	The system shall distinctly enhance visualization of subtle mucosal changes, flat or early neoplastic lesions, and provide clear demarcation of lesion margins, supporting early detection of precancerous and malignant conditions and significantly reducing lesion miss rates in both upper and lower GI endoscopic examinations.
4	The integrated video processor with light source shall incorporate multiple LEDs with the capability to generate amber light, improving visualization of bleeding points and deeper blood vessels not clearly visible under conventional white light imaging.
5	The processor shall include image-enhancement technology that optimizes brightness, color, and surface-detail contrast, improving visualization of subtle mucosal abnormalities and supporting early detection of precancerous and cancerous lesions.
6	The system shall support enhanced endoscopic image quality with 4K display, providing superior resolution, clarity, and effective magnification for detailed visualization of fine mucosal structures during diagnostic and therapeutic procedures without loss of image detail.
7	The Video Processor shall be a fully digital system, integrating Digital Signal Processing, 4K CCD/CMOS sensors, and the latest digital video processing technology.
8	The Video Processor shall have 4K (12G HD-SDI) and 3G-HD SDI output signal capabilities.
9	The Video Processor shall be equipped with special detection technology for detailed observation by enhancing visibility of blood capillaries and mucosa.
10	The system shall offer advanced wavelength-based image enhancement to improve visualization of deep and superficial blood vessels and bleeding points.
11	The Video Processor shall contain portable memory (minimum 2 GB), a USB slot for image recording, and at least 1 GB internal buffer memory.
12	The Video Processor shall have brightness control for distant visualization: automatic and manual.
13	The Video Processor shall be capable of Picture-in-Picture display and index function.

14	The Video Processor shall have memory backup for settings.
15	The Video Processor shall include a pre-freeze function to select the clearest still image automatically and noise reduction technology.
16	Keyboard/TFT interface shall be available for data inputs.
17	The Video Processor shall provide color correction facilities.
18	Electronic magnification shall be available on scope switch/keyboard/TFT to enlarge structures by at least 1.2X.
19	Automatic IRIS control shall be featured to reduce manual adjustment.
20	Data storage shall allow patient data storage for at least 35–45 patients.
21	USB port shall allow portable memory storage of still images.
22	Pre-Freeze function shall automatically select the clearest still image.
23	Auto white balance, digital zoom, and noise reduction features shall be available.
C	**LOWER GASTROINTESTINAL VIDEOSCOPE (ADULT)**
1	The lower gastrointestinal videoscope should have an extended depth of field for endoscopy and incorporate special detection technologies to enable detailed visualization of mucosal surface architecture and microvascular patterns.
2	The lower gastrointestinal videoscope shall provide enhanced visualization capabilities to enable precise identification of active bleeding points.
3	The lower gastrointestinal videoscope shall provide enhanced visualization of subtle and deeper vascular abnormalities, facilitate detection of flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The lower gastrointestinal videoscope shall be equipped with near-focus and distant-focus imaging capabilities.
5	The field of view shall be at least 160 degrees or more in both focus modes, ensuring wide-angle visualization of the colonic lumen while maintaining high-resolution close-focus assessment of mucosal surfaces.
6	The system shall support forward viewing with an auxiliary water channel.
7	The depth of field in near-focus mode shall be at least 2–5 mm or better.
8	The depth of field in normal-focus mode shall be at least 3–100 mm or better.
9	The insertion tube outer diameter shall be 13 mm or less.
10	A working length of at least 1650 mm shall permit complete visualization of the colon and terminal ileum, supporting comprehensive diagnostic evaluation and advanced interventional procedures.
11	The instrument channel inner diameter shall be 3.5 mm or more.
12	The bending section angulation range shall be at least 180 degrees upward and 180 degrees downward.
13	The bending section angulation range shall be at least 160 degrees to the right and 160 degrees to the left.
14	The distal end diameter shall be 13.4 mm or less.
15	A distal end cover shall be provided for protection.
16	A distal hood (black hood) shall be provided for advanced procedures and improved visualization.
17	Compatible biopsy forceps shall be provided.
D	**LOWER GASTROINTESTINAL VIDEOSCOPE (PEDIATRIC)**

1	The lower gastrointestinal videoscope should have an extended depth of field for endoscopy and incorporate special detection technologies to enable detailed visualization of mucosal surface architecture and microvascular patterns.
2	The lower gastrointestinal videoscope shall provide enhanced visualization capabilities enabling precise identification of active bleeding points.
3	The lower gastrointestinal videoscope shall provide enhanced visualization of subtle and deeper vascular abnormalities, facilitate detection of flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The field of view shall be at least 140 degrees.
5	The system shall support forward viewing.
6	The depth of field in shall be at least 2–100 mm or better.
7	The insertion tube outer diameter shall be 9.5 mm or less.
8	The working length shall be at least 1680 mm or more.
9	The instrument channel inner diameter shall be 3.2 mm or more.
10	The bending section angulation range shall be at least 180 degrees upward and 180 degrees downward.
11	The bending section angulation range shall be 160 degrees to the right and 160 degrees to the left, if available.
12	The distal end diameter shall be 10 mm or less.
13	A distal end cover shall be provided for protection.
14	Compatible biopsy forceps shall be provided
E	**LOWER GASTROINTESTINAL ADULT ZOOM SCOPE**
1	The lower gastrointestinal videoscope should have an extended depth of field for endoscopy and incorporate special detection technologies to enable detailed visualization of mucosal surface architecture and microvascular patterns.
2	The scope shall allow seamless transition from general evaluation to high-magnification visualization of mucosal and microvascular patterns, supporting accurate identification of subtle, flat, or early neoplastic lesions, improving lesion characterization, facilitating targeted biopsies, and enhancing early cancer detection.
3	The normal field of view shall be 170 degrees or more.
4	The close-focus field of view shall be at least 85 degrees or better.
5	The system shall support forward viewing with an auxiliary water channel.
6	The normal working distance shall be at least 8–100 mm or better to enable comprehensive luminal assessment.
7	The close working distance shall be 1.6–3 mm or better to support detailed mucosal inspection.
8	The insertion tube outer diameter shall be 13 mm or less.
9	The working length shall be at least 1650 mm or more and shall support accurate diagnosis, lesion characterization, and advanced therapeutic interventions in lower gastrointestinal endoscopy.
10	The instrument channel inner diameter shall be 3.5 mm or more.
11	The bending section angulation range shall be at least 180 degrees upward and 180 degrees downward.
12	The bending section angulation range shall be at least 160 degrees to the left and 160 degrees to the right.
13	A distal end cover shall be provided.
14	A distal hood (black hood) shall be provided for advanced procedures and improved visualization.
F	**4K LCD MONITOR SPECIFICATIONS**

1	Monitor shall be at least 32-Inch LCD/OLED Medical Grade with 4K resolution.
2	Monitor shall be compatible with advanced image multiple enhancer/equivalent technology.
3	Monitor shall route 4K video signals via a single 12G-HD SDI output.
4	Monitor shall provide multiple display modes such as PIP and POP.
5	Monitor shall include CLONE OUT for 12G-SDI to duplicate video signals, including PIP/POP, to a second monitor or recording device.
6	Monitor shall accept various video signal inputs including 12G-SDI, HDMI, and 3G-SDI.
7	Monitor shall display at least 1 billion colours.
G	**IRRIGATION PUMP**
1	Pump shall be able to irrigate fluid via the auxiliary water channel.
2	Pump shall be microprocessor controlled.
3	Pump shall have a water container with a minimum capacity of 2 litres.
4	Pump shall have an adjustable flow rate feature.
5	Water container and lid shall be autoclavable.
6	Tubing's and adaptors for irrigation pump shall be provided.
H	**CO2 INSUFFLATOR SYSTEM**
1	System shall have one-button start/stop operation and timer function to automate CO2 insufflation shutoff.
2	System shall provide low flow and extra low flow tube options.
3	System shall provide pressure feed of at least 45 kPa.
4	CO2 hose pipe for insufflator shall be provided.
I	**4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	Software shall be the latest version to transfer data from the video processor to computers and shared network.
2	Software shall include 4K image capturing and 4K video recording for archiving and documentation, user-friendly interface, recording and editing of still/moving frames, and report generation.
3	Foot switch and image capture dongle shall be provided with the software.
4	Software shall support DICOM and HL7 standards.
5	System shall include 4K grabber card and software for image archiving/documentation, featuring recording/editing still and moving frames, report generation, and foot pedal control.
J	**ENDOSCOPIC TROLLEY**
1	The trolley should be made of SS 304 stainless steel/ MS powder coated.
2	The trolley should have four clustered wheels for smooth mobility.
3	The trolley should include a scope hanger to securely hold the scope during procedures.
4	The trolley should have provisions to accommodate the video processor and monitor.
5	The trolley should be equipped with an integrated power button, power sockets, and attached power cords.
6	Should quote the cart to pendant upgrade as optional
K	**COMPUTER SYSTEM SPECIFICATIONS**

1	Vendor shall provide the computer and printer specifications required for this endoscopy system.

SN	3)TECHNICAL SPECIFICATION FOR ERCP ENDOSCOPY SYSTEM
A	**PRODUCT OVERVIEW**
1	The ERCP endoscopy system shall be a high-performance, fully digital platform with advanced imaging and therapeutic capabilities, designed for precision, patient safety, and seamless integration with hospital workflows.
B	**VIDEO PROCESSOR SPECIFICATIONS**
1	The ERCP system shall deliver enhanced high-definition endoscopic image quality to improve lesion detection and diagnostic accuracy during biliary and pancreatic procedures.
2	The system shall support HD image display, providing high resolution, clarity, and effective magnification for detailed visualization of fine mucosal and ductal structures, thereby supporting accurate diagnosis and precise therapeutic interventions.
3	The system shall be equipped with high-definition 3G SDI or DVI imaging capability.
4	The system shall be compatible with analog and digital (HD-SDI) signals to reproduce high-definition images/video.
5	The system shall combine digital and analog signal processing, high-definition CCD/CMOS chips, and the latest digital video processors.
6	The system shall contain portable memory (minimum 2GB) and a USB slot for image recording, along with a minimum 1GB internal buffer memory.
7	The system shall support Picture-in-Picture display and index function.
8	The system shall be equipped with memory backup for settings and a lithium battery.
9	The system shall be compatible with flexible video ENT scopes.
10	The system shall have a pre-freeze function to automatically select the clearest still image and incorporate noise reduction technology.
11	Keyboard/TFT shall be available for data input.
12	The system shall provide colour correction functionality.
13	The system shall provide image enhancement capability.
14	Electronic magnification shall be available via scope switch or keyboard button to enlarge structures from 1.2X or more.
15	Automatic IRIS control shall be featured to reduce manual adjustment.
16	The system shall have the ability to store patient data for 35–45 patients.
17	A USB port shall be provided for portable memory storage of still images.
18	Auto white balance, digital zoom, and noise reduction features shall be available.
C	**LIGHT SOURCE SPECIFICATIONS**
1	The system shall be powered by a multi-LED (4 or more) or an equivalent 300 W xenon light source.
2	The system shall have automatic light adjustment to achieve ideal illumination.
3	Brightness control shall be available in automatic and manual modes.
4	The light source shall be equipped with special detection technologies for detailed observation, enhancing visibility of blood capillaries and mucosa.
5	Vendors shall specify whether an emergency light standby feature is available.
D	**VIDEO DUODENOSCOPE/ERCP SCOPE**
1	The video duodenoscope shall have an extended depth of field for special detection technologies for detailed visualization of mucosal surface architecture and microvascular patterns.

2	Direction of view shall be forward viewing of at least 100 degrees.
3	Direction of view shall support backward viewing of at least 15 degrees.
4	Depth of field shall be 6–60 mm or better.
5	Insertion tube outer diameter shall be 11.3 mm or less.
6	Working length shall be at least 1200 mm or more.
7	Instrument channel inner diameter shall be at least 4.2 mm or more.
8	The bending section angulation range shall be at least 120 degrees upward and 90 degrees downward.
9	The bending section shall have right angulation of 110 degrees and left angulation of 90 degrees.
10	The scope shall have a minimum of four remote switches to adjust processor functions.
11	The scope shall have a guide wire locking mechanism.
12	Compatible sphincterotome, guide wire, and stone extraction balloon shall be provided.
13	The system shall be compatible with electrocautery and cholangioscope (for laser application). Vendor shall specify the make, model, and other relevant details.
E	**HIGH-DEFINITION LCD MONITOR SPECIFICATIONS**
1	The monitor should have a screen size of approximately 27 inches with a medical-grade Full HD panel.
2	The monitor should have a resolution of 1920 × 1080.
3	The monitor should support an aspect ratio of 16:9 or 4:3, or 16:10.
4	The monitor should have DVI and 3G-SDI input interfaces.
5	The monitor should have a viewing angle of at least 170 degrees or more.
6	The monitor should have a contrast ratio of 1000:1.
7	The monitor should be equipped with LED backlighting.
8	The monitor should support Picture-in-Picture and Picture-out-Picture modes for side-by-side viewing.
9	The monitor should support a colour depth of approximately 16 million colors.
F	**CO2 INSUFFLATOR SYSTEM**
1	System shall have one-button start/stop operation and timer function to automate CO2 insufflation shutoff.
2	System shall provide low flow and extra low flow tube options.
3	System shall provide pressure feed of at least 45 kPa.
4	CO2 hose pipe for insufflator shall be provided.
G	**HIGH- DEFINITION IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	The system should include the latest version of software to transfer data from the video processor to other computers.
2	HD image capture and HD video recording software should be provided for image archiving and documentation. The software should be user-friendly and include provisions for recording and editing still and moving images, report generation, and necessary foot-pedal control.
3	A foot switch and image capture dongle should be provided along with the software.
4	The software should support DICOM and HL7 standards.
5	HD image capture and video recording software with a PCIe grabber card should be provided for image archiving and documentation. The software should be user-friendly and include provisions for recording and editing still and moving images, report generation, and necessary foot-pedal control.

H	ENDOSCOPIC TROLLEY
1	The trolley should be made of SS 304 stainless steel/ MS powder coated.
2	The trolley should have four clustered wheels for smooth mobility.
3	The trolley should include a scope hanger to securely hold the scope during procedures.
4	The trolley should have provisions to accommodate the video processor and monitor.
5	The trolley should be equipped with an integrated power button, power sockets, and attached power cords.
6	Should quote the cart to pendant upgrade as optional
I	**COMPUTER SYSTEM SPECIFICATIONS**
1	Vendor shall provide the computer and printer specifications required for this endoscopy system.

SN	4)TECHNICAL SPECIFICATION FOR UPPER GASTROINTESTINAL ULTRASOUND ENDOSCOPY SYSTEM
A	**PRODUCT OVERVIEW**
1	The Upper Gastrointestinal Ultrasound Endoscopy System shall be a high-performance, fully digital HD platform or better, incorporating advanced imaging capabilities to ensure accurate diagnosis, enhanced patient safety, and seamless integration into clinical workflows.
B	**VIDEO PROCESSOR SPECIFICATIONS**
1	The video processor shall deliver enhanced high-definition endoscopic image quality to improve lesion detection and diagnostic accuracy during biliary and pancreatic procedures.
2	The system shall support HD image display with a minimum resolution of 1920 × 1080, providing high clarity, effective magnification, and detailed visualization of fine mucosal and ductal structures for precise diagnosis and therapeutic intervention.
3	The system shall be equipped with high-definition 3G-SDI or DVI imaging output interfaces, or better.
4	The system shall be compatible with both analog and digital (HD-SDI) signal formats for high-definition image and video reproduction.
5	The system shall utilize a combination of digital and analog signal processing, high-definition CCD/CMOS imaging sensors, and advanced digital video processing technology.
7	The processor shall include portable memory of at least 2 GB, a USB interface for image recording, and an internal buffer memory of at least 1 GB.
9	The system shall support Picture-in-Picture display functionality and index function capability.
10	The processor shall be equipped with non-volatile memory backup for system settings and an integrated lithium battery.
11	The system shall be compatible with flexible video ENT scopes.
12	The system shall include a pre-freeze function to automatically select the clearest still image and shall incorporate noise-reduction technology.
13	A keyboard and TFT-based user interface shall be provided for data entry and system operation.
14	The system shall include facilities for color correction.
15	The system shall include facilities for image enhancement.
16	Electronic magnification shall be available via scope switch or keyboard control, providing a magnification factor of at least 1.2× or higher.
17	Automatic iris control shall be provided to minimize manual adjustment and maintain optimal image brightness.
18	The system shall have the capability to store patient data for approximately 35–45 patients or more.
19	A USB port shall be provided for portable storage of still images.

20	Auto white balance, digital zoom, and noise-reduction functions shall be available as standard features.
21	Compatible biopsy forceps shall be provided for use with the system.
C	**LIGHT SOURCE SPECIFICATIONS**
1	The light source shall be based on a multi-LED illumination system comprising at least four LEDs or shall be equivalent to a 300 W xenon light source.
2	The light source shall include automatic light intensity adjustment to achieve optimal illumination.
3	Brightness control shall be available in both automatic and manual modes.
4	The light source shall support special optical detection technologies to enhance visualization of blood capillaries and mucosal structures.
5	The availability of an emergency light standby function shall be specified by the vendor.
D	**ULTRASOUND PROCESSOR SPECIFICATIONS**
1	The EUS ultrasound processor shall support both linear and radial EBUS probes on a single common processor platform, eliminating the need for separate ultrasound consoles.
2	The processor shall support customizable software upgrade options while operating on the same hardware platform.
3	The ultrasound frequency range shall extend up to at least 20 MHz (5, 6, 7.5, 10, 12, and 20 MHz) to optimize penetration depth and spatial resolution and shall support both balloon and direct-contact imaging methods.
4	Color flow imaging mode shall be available.
5	Power Doppler imaging mode shall be available.
6	B-mode imaging shall be available.
7	Pulse-wave Doppler mode shall be available.
8	The processor shall incorporate high-sensitivity pulse-wave Doppler and advanced vascular imaging capabilities for accurate assessment of blood flow and microvascular structures.
9	The system shall provide imaging with autofocus and tissue harmonic imaging to enhance spatial resolution and lesion delineation across varying tissue depths.
10	Contrast harmonic imaging with automatic parameter optimization shall be supported to improve visualization of microvascular perfusion and lesion characterization.
11	The system shall include elastography with both strain and shear-wave measurement capabilities for quantitative tissue stiffness assessment.
12	All imaging and optimization functions shall support accurate lesion characterization, vascular assessment, and safe interventional guidance for both linear and radial EBUS applications.
13	A radial probe driver unit shall be provided for connection of radial probes.
14	The processor shall be compatible with both electronic and mechanical ultrasound scanning methods.
15	The system shall include a large LCD touch panel allowing simultaneous display of multiple functional parameters.
E	**ULTRASONIC GASTRO VIDEOSCOPE**
1	The EUS scope shall incorporate a linear electronic ultrasound array with a scanning angle of 180° for real-time high-resolution imaging.
2	The field of view shall be at least 100° in the forward viewing direction.
3	The forward oblique viewing angle shall be at least 55°.
4	The depth of field shall be at least 3–100 mm.
5	The insertion tube outer diameter shall be 13 mm or less.
6	The working length shall be at least 1250 mm or more.
7	The instrument channel inner diameter shall be at least 3.6 mm or more.

8	The distal end diameter shall be 14.7 mm or less.
9	The upward and downward angulation range shall be at least 130° upward and 90° downward.
10	The left and right angulation range shall be at least 90° in both directions.
11	The ultrasound scanning method shall be an electronic curved linear array.
12	The scanning direction shall be parallel to the insertion direction.
13	The scope shall support both balloon and direct-contact ultrasound imaging methods.
14	The ultrasound transducer shall operate within a frequency range of 5–12 MHz or more.
15	The ultrasound cable shall be detachable from the scope to facilitate cleaning and handling.
F	**ULTRASONIC GASTRO VIDEOSCOPE RADIAL OPTIONAL AND FUTURE UPGRADE**
1	The EUS scope shall incorporate a radial electronic ultrasound array with a scanning angle of 360° for real-time high-resolution imaging.
2	The field of view shall be at least 100° in the forward viewing direction.
3	The forward oblique viewing angle shall be at least 50° or more.
4	The depth of field shall be at least 3–100 mm.
5	The insertion tube outer diameter shall be 13.5 mm or less.
6	The working length shall be at least 1250 mm or more.
7	The instrument channel inner diameter shall be at least 2.1 mm or more.
8	The distal end diameter shall be 14 mm or less.
9	The upward and downward angulation range shall be at least 130° upward and 90° downward.
10	The left and right angulation range shall be at least 90° in both directions.
11	The ultrasound scanning method shall be an electronic radial array.
12	The scanning direction shall be parallel to the insertion direction.
13	The scope shall support both balloon and direct-contact ultrasound imaging methods.
14	The ultrasound transducer shall operate within a frequency range of 5–12 MHz or more.
15	The ultrasound cable shall be detachable from the scope to facilitate cleaning and handling.
G	**HIGH-DEFINITION LCD MONITOR SPECIFICATIONS**
1	The monitor shall have a screen size of approximately 27 inches with a medical-grade Full HD panel or better.
2	The native resolution shall be at least 1920 × 1080.
3	The monitor shall support aspect ratios of 16:9, 4:3, or 16:10.
4	DVI and 3G-SDI input interfaces shall be provided.
5	The viewing angle shall be at least 170° or more.
6	The contrast ratio shall be at least 1000:1 or better.
7	LED backlighting shall be provided.
8	Picture-in-Picture and Picture-out-Picture modes shall be supported.
9	The monitor shall support a color depth of approximately 16 million colors.
H	**CO_2 INSUFFLATOR SYSTEM**
1	The system shall support one-button start/stop operation with a timer-based automatic CO_2 shut-off function.

2	Low-flow and extra-low-flow insufflation tubing shall be provided.
3	The pressure feed shall be at least 45 kPa.
4	A compatible CO_2 hose pipe shall be supplied.
I	**HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	The system shall include the latest version of image and video transfer software compatible with the video processor.
2	HD image capture and HD video recording software shall be provided for archiving, editing, reporting, and documentation with foot-pedal control support.
3	A foot switch and image capture dongle shall be supplied.
4	The software shall support DICOM and HL7 standards.
5	A PCIe-based grabber card shall be provided for HD image and video acquisition.
J	**ENDOSCOPIC TROLLEY**
1	The trolley shall be constructed from SS-304 stainless steel or MS powder-coated material.
2	Four clustered wheels shall be provided for smooth mobility.
3	A scope hanger shall be included for secure scope storage.
4	Provisions shall be available to mount the video processor and monitor.
5	Integrated power button, power sockets, and power cords shall be provided.
6	An optional cart-to-pendant upgrade shall be quoted separately.
K	**COMPUTER SYSTEM SPECIFICATIONS**
1	The vendor shall specify the computer system and printer specifications required for operation of the endoscopy system.

SN	**5)TECHNICAL SPECIFICATION FOR UPPER AND LOWER GASTROINTESTINAL MOBILE ENDOSCOPY SYSTEM**
A	**PRODUCT OVERVIEW**
1	The upper and lower gastrointestinal Endoscopy System shall be a high-performance, fully digital 4K platform with advanced imaging capabilities, designed to ensure accurate diagnosis, enhance patient safety, and allow seamless integration into clinical workflows.
B	**VIDEO PROCESSOR SPECIFICATIONS**
1	The system shall provide advanced visualization capabilities that enable clear and enhanced imaging of both mucosal and submucosal vasculature, allowing precise identification of bleeding points and subtle deeper vascular abnormalities.
2	This capability shall be critical during active gastrointestinal bleeding and for accurate assessment of lesion vascularity.
3	The system shall distinctly enhance visualization of subtle mucosal changes, flat or early neoplastic lesions, and provide clear demarcation of lesion margins, supporting early detection of precancerous and malignant conditions and significantly reducing lesion miss rates in both upper and lower GI endoscopic examinations.
4	The integrated video processor with light source shall incorporate multiple LEDs with the capability to generate amber light, improving visualization of bleeding points and deeper blood vessels not clearly visible under conventional white light imaging.
5	The processor shall include image-enhancement technology that optimizes brightness, color, and surface-detail contrast, improving visualization of subtle mucosal abnormalities and supporting early detection of precancerous and cancerous lesions.

6	The system shall support enhanced endoscopic image quality with 4K display, providing superior resolution, clarity, and effective magnification for detailed visualization of fine mucosal structures during diagnostic and therapeutic procedures without loss of image detail.
7	The Video Processor shall be a fully digital system, integrating Digital Signal Processing, 4K CCD/CMOS sensors, and the latest digital video processing technology.
8	The Video Processor shall have 4K (12G HD-SDI) and 3G-HD SDI output signal capabilities.
9	The Video Processor shall be equipped with special detection technology for detailed observation by enhancing visibility of blood capillaries and mucosa.
10	The system shall offer advanced wavelength-based image enhancement to improve visualization of deep and superficial blood vessels and bleeding points.
11	The Video Processor shall contain portable memory (minimum 2 GB), a USB slot for image recording, and at least 1 GB internal buffer memory.
12	The Video Processor shall have brightness control for distant visualization: automatic and manual.
13	The Video Processor shall be capable of Picture-in-Picture display and index function.
14	The Video Processor shall have memory backup for settings.
15	The Video Processor shall include a pre-freeze function to select the clearest still image automatically and noise reduction technology.
16	Keyboard/TFT interface shall be available for data inputs.
17	The Video Processor shall provide color correction facilities.
18	Electronic magnification shall be available on scope switch/keyboard/TFT to enlarge structures by at least 1.2X.
19	Automatic IRIS control shall be featured to reduce manual adjustment.
20	Data storage shall allow patient data storage for at least 35–45 patients.
21	USB port shall allow portable memory storage of still images.
22	Pre-Freeze function shall automatically select the clearest still image.
23	Auto white balance, digital zoom, and noise reduction features shall be available.
C	**UPPER GASTROINTESTINAL VIDEOSCOPE ADULT**
1	The adult videoscope shall have increased depth of field for detailed visualization of mucosal surface architecture and microvascular patterns.
2	The videoscope shall provide enhanced visualization capabilities enabling precise identification of active bleeding points.
3	The videoscope shall facilitate detection of subtle deeper vascular abnormalities, flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The videoscope shall be equipped with near and distant focus imaging capability.
5	Field of view shall be at least 140° in normal and close focus.
6	The system shall support forward viewing with an auxiliary water channel.
7	The system shall provide extended depth-of-field imaging for consistent clarity and sharp focus across a wider depth range with minimal blind spots.
8	Depth of field close focus shall be at least 2–5 mm or better.
9	Depth of field for normal focus shall be at least 3–100 mm or better.
10	Insertion tube outer diameter shall be 10 mm or better.
11	Working length shall be at least 1000 mm or more.

12	Instrument channel inner diameter shall be 2.7 mm or more.
13	Bending section angulation range shall be at least 210° upward and 90° downward or better.
14	Bending section angulation range shall be at least 100° left and 100° right.
15	Distal end diameter shall be 10 mm or less.
16	System shall provide a distal end cover for scope safety.
17	System shall provide a distal hood (black hood) for advanced procedures and better visualization.
18	System shall provide compatible biopsy forceps.
D	**UPPER GASTROINTESTINAL PEDIATRIC VIDEOSCOPE**
1	Paediatric videoscope shall have increased depth of field for detailed mucosal visualization.
2	The system shall provide enhanced visualization enabling precise identification of active bleeding points and subtle deeper vascular abnormalities, facilitating detection of flat or early neoplastic lesions.
3	Field of view shall be at least 140°.
4	The system shall support forward viewing.
5	Depth of field normal focus shall be at least 3–100 mm.
6	Insertion tube outer diameter shall be 6 mm or less.
7	Working length shall be at least 1000 mm.
8	Instrument channel inner diameter shall be 2 mm or more.
9	Bending section angulation range shall be at least 210° upward and 90° downward or better.
10	Bending section angulation range shall be at least 100° left and 100° right or better.
11	Distal end diameter shall be 5.5 mm or less.
12	System shall provide distal end cover.
13	System shall provide distal hood (black hood) for advanced procedure and better visualization.
14	System shall provide compatible biopsy forceps.
E	**LOWER GASTROINTESTINAL VIDEOSCOPE (ADULT)**
1	The lower gastrointestinal videoscope should have an extended depth of field for endoscopy and incorporate special detection technologies to enable detailed visualization of mucosal surface architecture and microvascular patterns.
2	The lower gastrointestinal videoscope shall provide enhanced visualization capabilities to enable precise identification of active bleeding points.
3	The lower gastrointestinal videoscope shall provide enhanced visualization of subtle and deeper vascular abnormalities, facilitate detection of flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The lower gastrointestinal videoscope shall be equipped with near-focus and distant-focus imaging capabilities.
5	The field of view shall be at least 160 degrees or more in both focus modes, ensuring wide-angle visualization of the colonic lumen while maintaining high-resolution close-focus assessment of mucosal surfaces.
6	The system shall support forward viewing with an auxiliary water channel.
7	The depth of field in near-focus mode shall be at least 2–5 mm or better.
8	The depth of field in normal-focus mode shall be at least 3–100 mm or better.

9	The insertion tube outer diameter shall be 13 mm or less.
10	A working length of at least 1650 mm shall permit complete visualization of the colon and terminal ileum, supporting comprehensive diagnostic evaluation and advanced interventional procedures.
11	The instrument channel inner diameter shall be 3.5 mm or more.
12	The bending section angulation range shall be at least 180 degrees upward and 180 degrees downward.
13	The bending section angulation range shall be at least 160 degrees to the right and 160 degrees to the left.
14	The distal end diameter shall be 13.4 mm or less.
15	A distal end cover shall be provided for protection.
16	A distal hood (black hood) shall be provided for advanced procedures and improved visualization.
17	Compatible biopsy forceps shall be provided.
F	**LOWER GASTROINTESTINAL VIDEOSCOPE (PEDIATRIC)**
1	The lower gastrointestinal videoscope should have an extended depth of field for endoscopy and incorporate special detection technologies to enable detailed visualization of mucosal surface architecture and microvascular patterns.
2	The lower gastrointestinal videoscope shall provide enhanced visualization capabilities enabling precise identification of active bleeding points.
3	The lower gastrointestinal videoscope shall provide enhanced visualization of subtle and deeper vascular abnormalities, facilitate detection of flat or early neoplastic lesions, and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	The field of view shall be at least 140 degrees.
5	The system shall support forward viewing.
6	The depth of field in shall be at least 2–100 mm or better.
7	The insertion tube outer diameter shall be 9.5 mm or less.
8	The working length shall be at least 1680 mm or more.
9	The instrument channel inner diameter shall be 3.2 mm or more.
10	The bending section angulation range shall be at least 180 degrees upward and 180 degrees downward.
11	The bending section angulation range shall be 160 degrees to the right and 160 degrees to the left, if available.
12	The distal end diameter shall be 10 mm or less.
13	A distal end cover shall be provided for protection.
14	Compatible biopsy forceps shall be provided
G	**4K LCD MONITOR SPECIFICATIONS**
1	Monitor shall be at least 32-Inch LCD/OLED Medical Grade with 4K resolution.
2	Monitor shall be compatible with advanced image multiple enhancer/equivalent technology.
3	Monitor shall route 4K video signals via a single 12G-HD SDI output.
4	Monitor shall provide multiple display modes such as PIP and POP.
5	Monitor shall include CLONE OUT for 12G-SDI to duplicate video signals, including PIP/POP, to a second monitor or recording device.
6	Monitor shall accept various video signal inputs including 12G-SDI, HDMI, and 3G-SDI.
7	Monitor shall display at least 1 billion colours.

H	IRRIGATION PUMP
1	Pump shall be able to irrigate fluid via the auxiliary water channel.
2	Pump shall be microprocessor controlled.
3	Pump shall have a water container with a minimum capacity of 2 litres.
4	Pump shall have an adjustable flow rate feature.
5	Water container and lid shall be autoclavable.
6	Tubing's and adaptors for irrigation pump shall be provided.
I	**CO2 INSUFFLATOR SYSTEM**
1	System shall have one-button start/stop operation and timer function to automate CO2 insufflation shutoff.
2	System shall provide low flow and extra low flow tube options.
3	System shall provide pressure feed of at least 45 kPa.
4	CO2 hose pipe for insufflator shall be provided.
J	**4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	Software shall be the latest version to transfer data from the video processor to computers and shared network.
2	Software shall include 4K image capturing and 4K video recording for archiving and documentation, user-friendly interface, recording and editing of still/moving frames, and report generation.
3	Foot switch and image capture dongle shall be provided with the software.
4	Software shall support DICOM and HL7 standards.
5	System shall include 4K grabber card and software for image archiving/documentation, featuring recording/editing still and moving frames, report generation, and foot pedal control.
K	**ENDOSCOPIC TROLLEY**
1	The trolley should be made of SS 304 stainless steel/ MS powder coated.
2	The trolley should have four clustered wheels for smooth mobility.
3	The trolley should include a scope hanger to securely hold the scope during procedures.
4	The trolley should have provisions to accommodate the video processor and monitor.
5	The trolley should be equipped with an integrated power button, power sockets, and attached power cords.
6	Should quote the cart to pendant upgrade as optional
L	**COMPUTER SYSTEM SPECIFICATIONS**
1	Vendor shall provide the computer and printer specifications required for this endoscopy system.

SN	6)TECHNICAL SPECIFICATION FOR BRONCHOSCOPY SYSTEM
A	**PRODUCT OVERVIEW**
1	The 4K Bronchoscopy System offered should be a high-performance, fully digital platform with advanced imaging capabilities, designed for clinical efficiency, patient safety, and seamless integration with hospital systems
B	**VIDEO PROCESSOR SPECIFICATIONS**

1	The integrated video processor with light source shall utilize a multi-LED illumination system, including amber-wavelength light, to enhance visualization of bleeding points and deeper submucosal blood vessels that are not adequately seen under conventional white light.
2	The system shall enable improved assessment of airway mucosa and submucosal vasculature, facilitating accurate identification of inflammatory changes, subtle vascular abnormalities, and airway lesions, particularly during active bleeding.
3	The processor shall incorporate advanced image-enhancement technology to optimize brightness, color fidelity, and surface-detail contrast, supporting superior detection of subtle mucosal changes and early identification of precancerous and malignant lesions.
4	The system shall support true 4K image display, providing high-resolution, lossless magnification and exceptional clarity for detailed visualization of fine airway structures during diagnostic and interventional bronchoscopy.
5	The video processor shall be fully digital, integrating Digital Signal Processing, 4K CCD/CMOS sensors, and the latest digital video processing technology.
6	The system shall support 4K (12G HD-SDI) and 3G-HD-SDI output signals.
7	The processor shall be equipped with specialized detection technologies for enhanced observation of blood capillaries and mucosa.
8	Advanced wavelength-based image enhancement shall be provided to improve visualization of both deep and superficial blood vessels and bleeding points.
9	The video processor shall include a minimum 2GB portable memory and a USB slot for image recording, along with at least 1GB of internal buffer memory.
10	Brightness control shall be available, both automatic and manual, to allow visualization of distant areas.
11	The system shall support Picture-in-Picture display, index functionality, and memory backup for settings.
12	A pre-freeze function shall automatically select the clearest still image and
13	Keyboard/TFT interfaces shall be available for data input.
14	Colour correction functionality shall be provided.
15	Electronic magnification shall be available via scope switch/keyboard/TFT to enlarge structures by 1.2X or more.
16	Automatic IRIS control shall be included to minimize manual adjustments.
17	The system shall have the ability to store patient data for 35–45 patients.
18	A USB port shall allow portable memory storage of still images.
19	Auto white balance, digital zoom, and noise reduction functions shall be supported.
C	**ULTRASOUND PROCESSOR SPECIFICATION**
1	The EBUS ultrasound processor shall support advanced endobronchial ultrasound procedures for both linear and radial EBUS probes using a single, common processor platform, eliminating the need for separate ultrasound consoles.
2	The EBUS ultrasound processor shall have customizable software upgrade options to meet the needs of any facility on the same processor.
3	The generated frequency range shall be up to 20 MHz (5, 6, 7.5, 10, 12, 20 MHz) to optimize tissue penetration and spatial resolution, and shall be capable of both balloon and direct contact imaging methods.
4	The EBUS ultrasound processor shall have Flow mode.
5	The EBUS ultrasound processor shall have Power Doppler mode.
6	B-mode imaging shall be available.
7	Pulse-wave Doppler mode shall be available.
8	The processor shall incorporate high-sensitivity pulse-wave Doppler and advanced vascular imaging capabilities to enable accurate assessment of blood flow and minute vascular structures during EBUS procedures.

9	The system shall provide multifocus imaging with autofocus and tissue harmonic imaging to enhance spatial resolution, contrast, and lesion boundary delineation across varying tissue depths.
10	The processor shall support contrast harmonic imaging with automatic parameter optimization to improve visualization of microvascular perfusion and lesion characterization.
11	The system shall include elastography with both strain and shear-wave measurement capabilities to support quantitative tissue stiffness assessment and differentiation of benign and malignant lesions.
12	All imaging and optimization functions shall support accurate lesion characterization, vascular assessment, and safe, precise interventional guidance for both linear and radial EBUS applications.
13	The processor shall include a radial probe driver unit to connect radial probes.
14	The ultrasound processor shall be compatible with both electronic and mechanical scanning probes.
15	The processor shall have a large LCD touch panel that allows a greater range of functions to be displayed simultaneously.
D	**VIDEO BRONCOSCOPE SPECIFICATIONS ADULT**
1	The Broncho videoscope shall have an extended depth of field for endoscopy.
2	The system shall incorporate special detection technologies for detailed visualization of mucosal surface architecture and microvascular patterns.
3	The system shall provide enhanced visualization capabilities to enable precise identification of active bleeding points and subtle deeper vascular abnormalities.
4	It shall facilitate detection of flat or early neoplastic lesions and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
5	Field of view shall be at least 120 degrees or more.
6	Direction of view shall be forward viewing.
7	Depth of field shall be at least 3–100 mm or better.
8	Insertion tube outer diameter shall be 6.2 mm or less.
9	Working length shall be at least 600 mm.
10	Instrument channel inner diameter shall be 2.8 mm or more.
11	The bending section angulation range shall be at least 180 degrees upward and 130 degrees downward.
12	The scope shall provide rotation functionality of 120 degrees for left–right manoeuvring.
13	The system shall provide compatible biopsy forceps.
E	**VIDEO BRONCOSCOPE SPECIFICATIONS PAEDIATRIC THIN**
1	The Broncho videoscope shall have an extended depth of field for endoscopy special detection technologies for detailed visualization of mucosal surface architecture and microvascular patterns.
2	The system shall provide enhanced visualization capabilities to enable precise identification of active bleeding points and subtle deeper vascular abnormalities.
3	It shall facilitate detection of flat or early neoplastic lesions and ensure clear demarcation of lesion margins to support accurate diagnosis and therapeutic decision-making.
4	Field of view shall be at least 90 degrees.
5	Direction of view shall be forward viewing.
6	Depth of field shall be at least 2–50 mm.
7	Insertion tube outer diameter shall be 3.8 mm or less.
8	Working length shall be at least 600 mm.
9	Instrument channel inner diameter shall be 1.6 mm or more.
10	Distal end diameter shall be 3 mm or less.
11	The bending section angulation range shall be at least 210 degrees upward and 130 degrees downward.

12	The system shall provide rotation functionality of 120 degrees for left–right manoeuvring.
13	Compatible biopsy forceps shall be provided.
F	**VIDEO BRONCOSCOPE SPECIFICATIONS PAEDIATRIC TO BE QUOTED AS OPTIONAL AND FUTURE UPGRADABLE**
1	The Broncho videoscope shall have an extended depth of field for endoscopy special detection technologies for detailed visualization of mucosal surface architecture and microvascular patterns.
2	The system shall provide enhanced visualization capabilities to enable precise identification of active bleeding points and subtle deeper vascular abnormalities.
3	Field of view shall be at least 110 degrees.
4	Direction of view shall be forward viewing.
5	Depth of field shall be at least 2–50 mm.
6	Insertion tube outer diameter shall be 4.1 mm or less.
7	Working length shall be at least 600 mm.
8	Instrument channel inner diameter shall be 2 mm or more.
9	Distal end diameter shall be 4.3 mm or less.
10	The bending section angulation range shall be at least 210 degrees upward and 130 degrees downward.
11	The system shall provide rotation functionality of 120 degrees for left–right manoeuvring.
12	Compatible biopsy forceps shall be provided.
G	**VIDEO BRONCOSCOPE SPECIFICATIONS NEONATAL**
1	The Broncho videoscope shall have an extended depth of field for endoscopy special detection technologies for detailed visualization of mucosal surface architecture and microvascular patterns.
2	Field of view shall be at least 110 degrees.
3	Direction of view shall be forward viewing.
4	Depth of field shall be at least 2–50 mm.
5	Insertion tube outer diameter shall be 2.9 mm or less.
6	Working length shall be at least 600 mm.
7	Instrument channel inner diameter shall be 1 mm or more.
8	The bending section angulation range shall be at least 210 degrees upward and 130 degrees downward.
9	The system shall provide rotation functionality of 120 degrees for left–right manoeuvring.
10	Compatible biopsy forceps shall be provided.
H	**Video thoracoscope**
1	The video thoracoscope shall have an extended depth of field for endoscopy special detection technologies for detailed visualization of mucosal surface architecture and microvascular patterns.
2	Field of view shall be at least 120 degrees or more.
3	The system shall support forward direction of viewing.
4	Depth of field shall be at least 7–100 mm.
5	Insertion tube outer diameter shall be 7.3 mm or less.
6	Working length shall be at least 270 mm or better.
7	Instrument channel inner diameter shall be at least 3 mm or more.

8	The bending section angulation range shall be at least 180 degrees upward and 130 degrees downward.
9	The system shall provide rotation functionality of 120 degrees for left–right manoeuvring.
10	The system shall provide a flexible trocar.
11	The system shall provide a waterproof one-touch connector.
12	Compatible biopsy forceps shall be provided.
I	**ULTRASONIC LINEAR BRONCHO FIBERVIDEOSCOPE SPECIFICATIONS**
1	The linear EBUS bronchoscope shall be equipped with a linear ultrasound transducer to enable real-time, high-resolution imaging of airway walls and adjacent mediastinal and hilar structures.
2	The bronchoscope shall have an oblique balloon irrigation port.
3	Field of view shall be at least 80 degrees or more.
4	Direction of view shall be forward oblique with 15 degrees or better.
5	Depth of field shall be at least 2–50 mm.
6	Insertion tube outer diameter shall be 6.5 mm or less.
7	Working length shall be 600 mm or more.
8	Instrument channel inner diameter shall be 2.1 mm or more.
9	The distal end diameter shall be 6.6 mm or less.
10	The bending section angulation range shall be at least 150 degrees upward and 70 degrees downward or more.
11	The bronchoscope shall have an electronic curved linear array scanning method.
12	Scanning shall be parallel to the insertion direction.
13	The scanning range of the transducer shall be 60 degrees or more.
14	The contact method shall support both balloon and direct contact imaging.
15	The ultrasound transducer shall support frequencies in the range of 5–12 MHz (5, 6, 7.5, 10, 12 MHz).
J	**RADIAL ULTRASONIC PROBE I SPECIFICATIONS**
1	The radial EBUS probe shall incorporate a miniature radial ultrasound transducer with a distal diameter of approximately 1.5 mm or less, enabling passage through the working channel of a compatible bronchoscope.
2	The probe shall provide 360° circumferential ultrasound scanning.
3	The probe shall operate at a high frequency of approximately 20 MHz to deliver high-resolution imaging of peripheral pulmonary lesions.
4	The probe shall have a working length of approximately 2000 mm or more.
5	The probe shall be compatible with a guide sheath to support accurate lesion localization and sampling during radial EBUS-guided procedures.
6	The system shall provide a radial ultrasound probe driving unit.
7	Supporting arms and clamps shall be provided to fix the driving unit.
J	**RADIAL ULTRASONIC PROBE II SPECIFICATIONS OPTIONAL AND FUTURE UPGRADE**
1	The radial EBUS probe shall incorporate a miniature radial ultrasound transducer with a distal diameter of approximately 1.8 mm or less, enabling passage through the working channel of a compatible bronchoscope.
2	The probe shall provide 360° circumferential ultrasound scanning.
3	The probe shall operate at a high frequency of approximately 20 MHz to deliver high-resolution imaging of peripheral pulmonary lesions.

4	The probe shall have a working length of approximately 2000 mm or more.
5	The probe shall be compatible with a guide sheath to support accurate lesion localization and sampling during radial EBUS-guided procedures.
6	The system shall provide a radial ultrasound probe driving unit.
7	Supporting arms and clamps shall be provided to fix the driving unit.
K	**4K LCD MONITOR SPECIFICATIONS**
1	Monitor shall be at least 32-Inch LCD/OLED Medical Grade with 4K resolution.
2	Monitor shall be compatible with advanced image multiple enhancer/equivalent technology.
3	Monitor shall route 4K video signals via a single 12G-HD SDI output.
4	Monitor shall provide multiple display modes such as PIP and POP.
5	Monitor shall include CLONE OUT for 12G-SDI to duplicate video signals, including PIP/POP, to a second monitor or recording device.
6	Monitor shall accept various video signal inputs including 12G-SDI, HDMI, and 3G-SDI.
7	Monitor shall display at least 1 billion colours.
L	**4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	Software shall be the latest version to transfer data from the video processor to computers and shared network.
2	Software shall include 4K image capturing and 4K video recording for archiving and documentation, user-friendly interface, recording and editing of still/moving frames, and report generation.
3	Foot switch and image capture dongle shall be provided with the software.
4	Software shall support DICOM and HL7 standards.
5	System shall include 4K grabber card and software for image archiving/documentation, featuring recording/editing still and moving frames, report generation, and foot pedal control.
M	**ENDOSCOPIC TROLLEY**
1	The trolley should be made of SS 304 stainless steel/ MS powder coated.
2	The trolley should have four clustered wheels for smooth mobility.
3	The trolley should include a scope hanger to securely hold the scope during procedures.
4	The trolley should have provisions to accommodate the video processor and monitor.
5	The trolley should be equipped with an integrated power button, power sockets, and attached power cords.
6	Should quote the cart to pendant upgrade as optional
N	**COMPUTER SYSTEM SPECIFICATIONS**
1	Vendor shall provide the computer and printer specifications required for this endoscopy system.
O	**PERIPHERALS AND CONSUMABLES**
1	EBUS TBNA aspiration needles shall be provided for each specified needle size.
2	Needle sizes of 19G, 21G, and 22G shall be supplied.
3	EBUS balloons shall be provided.

SN	7.1) TECHNICAL SPECIFICATION FOR PORTABLE BRONCHOSCOPE ADULT
A	**PRODUCT OVERVIEW**
1	The bronchoscopy system shall be a high-performance, fully digital, portable platform with advanced imaging capabilities, an integrated LED light source, touchscreen monitor, data storage

	and transfer options, and shall be designed for clinical efficiency, patient safety, and seamless integration with hospital systems.
B	**BRONCHOSCOPE ADULT**
1	The field of view of the adult bronchoscope shall be at least 90 degrees to allow wide visualization of the airway.
2	The system shall support forward viewing to enable direct observation of anatomical structures.
3	The depth of field shall be at least 3–50 mm to allow clear visualization of structures at varying distances.
4	The insertion tube outer diameter shall be 5.5 mm or less to minimize patient discomfort.
5	The working length of the bronchoscope shall be at least 600 mm to ensure access to the target regions.
6	The instrument channel inner diameter shall be at least 2.5 mm to accommodate standard bronchoscopy instruments.
7	The bending section angulation range shall be at least 180 degrees upward and 130 degrees downward to allow flexible manoeuvring; vendor shall provide additional details if applicable.
8	The total length of the bronchoscope shall be at least 900 mm to ensure complete reach of the target airway.
C	**INBUILT MONITOR, LIGHT SOURCE, CAMERA, AND RECORDING SYSTEM**
1	The system shall include an inbuilt monitor with a size of at least 3.5 inches to provide clear visualization of the image.
2	The monitor shall be able to tilt and rotate to provide optimal viewing angles during procedures.
3	All essential controls shall be operable directly from the monitor for ease of use.
4	The system shall include an integrated light source to provide consistent illumination during procedures.
5	The system shall include an inbuilt recording system capable of capturing still images, recording videos, and managing data efficiently.
6	The recording system shall have the capability to capture still images, record movies, and manage files effectively for documentation and review.
7	The system shall include an inbuilt camera for image capture and visualization.
8	The camera shall be rotatable 90 degrees to the left and 90 degrees to the right to allow flexible viewing during procedures.
D	**BATTERY AND STORAGE**
1	The system shall be equipped with a rechargeable inbuilt battery to allow portable operation.
2	The system shall operate continuously for at least 50 minutes or more on a full battery charge.
3	The system shall provide a memory card slot with a detachable memory card for flexible data storage.
4	The system shall be capable of storing at least 2,000 images to ensure adequate documentation of procedures.
5	The system shall be capable of storing at least 60 minutes of video recording to enable comprehensive procedure documentation.
6	The system shall include a charging unit to allow recharging of the battery for uninterrupted operation.
SN	**7.2) TECHNICAL SPECIFICATION FOR PORTABLE BRONCHOSCOPE PEDIATRIC**
A	**PRODUCT OVERVIEW**
1	The bronchoscopy system shall be a high-performance, fully digital, portable platform with advanced imaging capabilities, an integrated LED light source, touchscreen monitor, data storage and transfer options, and designed for clinical efficiency, patient safety, and seamless integration with hospital systems.
B	**BRONCHOSCOPE PEDIATRIC**

1	The field of view of the paediatric bronchoscope shall be at least 90 degrees to provide wide visualization of the airway.
2	The direction of view shall be 0° forward viewing to enable direct observation of anatomical structures.
3	The depth of field shall be at least 2–50 mm to allow accurate visualization of structures at varying distances.
4	The insertion tube outer diameter shall be 3.5 mm or less to minimize patient discomfort.
5	The working length of the bronchoscope shall be at least 600 mm to reach the required anatomical regions.
6	The instrument channel inner diameter shall be at least 1 mm to accommodate standard instruments used in paediatric bronchoscopy.
7	The bending section angulation range shall be at least 120 degrees upward and 120 degrees downward to allow flexible manoeuvring; vendor shall provide additional details if applicable.
8	The total length of the bronchoscope shall be at least 900 mm to ensure complete access to the target airway.
C	**THE SYSTEM SHALL INCLUDE AN INBUILT MONITOR, INTEGRATED LIGHT SOURCE, CAMERA, AND RECORDING SYSTEM.**
1	The inbuilt monitor shall have a size of at least 3.5 inches to provide clear visualization of the image.
2	The monitor shall be able to tilt and rotate to provide optimal viewing angles during procedures.
3	All essential controls shall be operable directly from the monitor for ease of use.
4	The system shall include an integrated light source to provide consistent illumination during procedures.
5	The system shall have an inbuilt recording system capable of capturing still images, recording videos, and managing data efficiently.
6	The system shall have an inbuilt camera for image capture and visualization.
7	The camera shall be rotatable 90 degrees to the left and 90 degrees to the right to facilitate flexible viewing.
D	**BATTERY AND STORAGE**
1	The system shall be equipped with a rechargeable inbuilt battery to allow portable operation.
2	The system shall be capable of continuous operation for at least 50 minutes or more on a full battery charge.
3	The system shall provide a memory card slot with a detachable memory card for flexible data storage.
4	The system shall be able to store at least 2,000 images to ensure adequate documentation of procedures.
5	The system shall be able to store at least 60 minutes of video recording to enable comprehensive procedure documentation.
6	The system shall include a charging unit to allow recharging of the battery for uninterrupted operation.

SN	8)TECHNICAL SPECIFICATION FOR REPROCESSING UNIT
1	The system shall be capable of reprocessing a minimum of two endoscopes simultaneously to ensure efficient workflow and high throughput in clinical settings.
2	The system shall be equipped with provisions for both ultrasonic cleaning and high-pressure cleaning to ensure thorough removal of debris and contaminants from all endoscope channels and surfaces.
3	The system shall include an in-built printing facility to document and confirm completion of each reprocessing cycle, thereby providing verifiable records for quality assurance and compliance purposes.

4	The system shall provide adjustable cleaning time settings, allowing the user to select a duration ranging from 1 to 10 minutes depending on the level of soiling and type of endoscope.
5	The system shall provide adjustable disinfection time settings, allowing the user to select a duration ranging from 5 to 60 minutes to ensure effective microbial decontamination.
6	The system shall be equipped with a built-in heater within the cleaning tub to maintain the required cleaning temperature and enhance the efficiency of detergent action.
7	The cleaning tub of the system shall have an approximate capacity of 14 litters to accommodate standard endoscopes and ensure thorough cleaning.
8	The system shall provide alcohol flushing for drainage purposes, preferably with automatic operation to improve safety and minimize manual handling.
9	The system shall be capable of performing a water leak test on each endoscope to verify the integrity of all channels and prevent potential damage during reprocessing.
10	The system shall be capable of disinfecting the water supply piping as well as the internal components of the equipment to prevent cross-contamination between reprocessing cycles.
11	The system shall be capable of draining disinfectant through both the drain hose and the collection hose, ensuring complete removal of residual disinfectant.
12	The system shall be provided with a disinfectant removal port to allow inspection and verification of disinfectant concentration and completeness of removal.
13	The system shall be supplied with compatible connecting adaptors to ensure proper attachment and safe reprocessing of the following endoscopes:
13.1	Gastroscope
13.2	Colonoscope
13.3	Bronchoscope
13.4	ERCP endoscope
13.5	EUS endoscope
13.6	EBUS endoscope
13.7	Intubation endoscope
14	The system shall be provided with RFID-based endoscope identification to enable comprehensive and traceable reprocessing cycle documentation. Compatible connecting adaptors for all specified endoscopes shall be included to ensure safe, effective, and validated endoscope reprocessing.

Sl no.	9)TECHNICAL SPECIFICATION FOR WORKFLOW ITEMS
A	**TECHNICAL SPECIFICATION FOR 2 BAY DISINFECTION SINKS**
1	The frame of the disinfection sink should be made of SS 304 stainless steel.
2	The sink basin should be made of fibre.
3	The overall dimensions should be should be based on the quoted scopes and workflow
4	Inlet connections and a drain should be provided.
5	Storage space should be provided.
B	**TECHNICAL SPECIFICATION FOR 3 BAY DISINFECTION SINKS**
1	The frame of the disinfection sink should be made of SS 304 stainless steel.
2	The sink basin should be made of fibre.

3	The overall dimensions should be based on the quoted scopes and workflow.
4	Inlet connections and a drain should be provided.
5	Storage space should be provided.
C	**TECHNICAL SPECIFICATION FOR INSPECTION TABLE**
1	The frame of the inspection table should be made of SS 304 stainless steel.
2	The overall dimensions should be based on the quoted scopes and workflow.
3	The sink should be equipped with an integrated air gun.
4	A hose for connecting the air gun should be provided.
D	**TECHNICAL SPECIFICATION FOR SCOPE STORAGE CABINET**
1	The material should be MS powder-coated or better.
2	The unit should be equipped with four transport wheels for mobility.
3	The cabinet should be capable of storing six or more scopes.
4	Provisions for scope hanging should be provided.
5	A glass viewing window should be provided.
6	The overall dimensions should be based on the quoted scopes and workflow.

Sl no.	**10)TECHNICAL SPECIFICATION FOR VIDEO INTUBATION SCOPE (INTEGRATED DIFFICULT AIRWAY SCOPE SYSTEM)**
A	**PRODUCT OVERVIEW**
1	The Video Intubation Scope shall be a specialized visualization system designed to provide continuous, high-definition video monitoring of biological samples, cultures, or specimens during incubation, ensuring accurate observation and enhanced safety during procedures.
B	**VIDEO PROCESSOR SPECIFICATIONS**
1	The intubation scope system shall provide enhanced high-definition image quality, which shall allow precise and clear visualization of airway anatomy during airway management procedures.
2	The system shall support HD image display, offering high resolution, clarity, and effective magnification to enable accurate identification of the vocal cords, trachea, and surrounding structures, thereby facilitating safe and controlled intubation.
3	The system shall be equipped with high-definition 3G SDI imaging capability to ensure superior image quality during clinical use.
4	The system shall be fully compatible with both analog and digital (HD-SDI) interfaces to reproduce high-definition images and video without loss of quality.
5	The system shall utilize a combination of digital and analog signal processing, high-definition CCD/CMOS sensors, and the latest digital video processors to ensure precise image capture and processing.
6	The system shall be equipped with special detection technology to enhance visibility of blood capillaries and mucosa, providing detailed observation for accurate assessment.
7	The system shall contain portable memory with a minimum capacity of 2 GB, include a USB slot for image recording, and have at least 1 GB internal buffer memory within the processor for smooth operation.
8	The system shall provide brightness control, both automatic and manual, to allow optimal visualization under varying conditions.

9	The system shall be capable of Picture-in-Picture (PIP) display and index function to support simultaneous viewing of multiple images and efficient workflow.
10	The system shall be equipped with memory backup for all settings and shall include a lithium battery to ensure operational continuity during power interruptions.
11	The system shall be fully compatible with flexible Video ENT Scopes to allow interoperability with other devices in the clinical environment.
12	The system shall include a pre-freeze function that automatically selects the clearest still image and incorporates noise reduction technology for improved image quality.
13	Keyboard and TFT interface shall be provided to allow accurate and efficient data input.
14	The system shall include facility for color correction to ensure that all images accurately represent the observed structures.
15	The system shall provide advanced image enhancement functionality to improve visualization of subtle anatomical details.
C	**LIGHT SOURCE SPECIFICATIONS**
1	The system shall be powered by either LED or Xenon light source to provide consistent and high-quality illumination.
2	The system shall have automatic light adjustment capability to achieve optimal illumination for all procedures.
3	The vendor shall specify whether the system includes emergency light standby and the operational details of this feature.
D	**VIDEO INTUBATION SCOPE SPECIFICATIONS – ADULT**
1	The adult video intubation scope shall be fully compatible with electro cautery and laser devices to support therapeutic procedures.
2	The adult scope shall be equipped with advanced imaging technologies, such as NBI, i-Scan OE, or BLI, to enhance the visibility of blood capillaries and mucosa for detailed observation.
3	The field of view of the adult scope shall be at least 120 degrees to provide a wide and comprehensive visualization area.
4	The direction of view shall be 0° forward viewing to enable direct observation of anatomical structures.
5	The depth of field shall be at least 3–100 mm to allow clear focus across a wide range of distances.
6	The insertion tube outer diameter shall be 6 mm or less to minimize patient discomfort during intubation.
7	The working length of the scope shall be at least 600 mm to ensure accessibility to the target area.
8	The instrument channel inner diameter shall be at least 2.8 mm to accommodate standard intubation instruments.
9	The bending section angulation range shall be at least 180 degrees upward and 130 degrees downward to facilitate comprehensive manoeuvrability; vendor shall specify any additional details.
10	The system shall include a leakage tester to ensure the integrity of the scope before use.
11	The system shall provide compatible biopsy forceps for therapeutic and diagnostic procedures.
E	**VIDEO INTUBATION SCOPE – PEDIATRIC**
1	The paediatric scope shall be compatible with electro cautery and laser devices for therapeutic procedures.

2	The paediatric scope shall be equipped with special detection imaging technology to enhance visibility of blood capillaries and mucosa for detailed observation.
3	The field of view of the paediatric scope shall be at least 120 degrees to allow clear and wide visualization.
4	The direction of view shall be forward viewing to facilitate accurate assessment.
5	The depth of field shall be at least 3-90 mm to provide adequate focus at different distances.
6	The insertion tube outer diameter shall be 5 mm or less to minimize discomfort for paediatric patients.
7	The working length of the paediatric scope shall be at least 600 mm to ensure access to the target area.
8	The instrument channel inner diameter shall be at least 2 mm to accommodate necessary instruments.
9	The bending section angulation range shall be at least 180 degrees upward and 130 degrees downward; vendor shall specify additional details if applicable.
10	The system shall include a leakage tester to ensure integrity of the paediatric scope.
11	The system shall provide compatible biopsy forceps for paediatric procedures.
F	**HIGH-DEFINITION LCD MONITOR SPECIFICATIONS**
1	The monitor shall have a screen size in the range of 24 inches and shall be a medical-grade full HD panel.
2	The monitor shall have a resolution of 1920×1080 pixels to ensure high-definition image quality.
3	The monitor shall support aspect ratios of 16:9, 4:3, or 16:10 to provide flexible display options.
4	The monitor shall have DVI and 3G-SDI input to support multiple video sources.
5	The monitor shall provide a viewing angle of at least 170 degrees to enable clear visualization from different positions.
6	The monitor shall have a contrast ratio of at least 1000:1 to ensure high image clarity.
7	The monitor shall utilize LED backlighting for uniform illumination.
8	The monitor shall provide Picture-in-Picture (PIP) and Picture-out-Picture (POP) functionalities for side-by-side viewing.
G	**HIGH-DEFINITION IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE**
1	The software (latest version) shall allow seamless transfer of data from video processors to other computers and shared networks.
2	Patient reporting software shall support HD-quality image recording and shall be able to capture still images during procedures.
3	Foot switch and image capture dongle shall be provided along with the software to enable hands-free operation.
4	The software shall comply with DICOM and HL7 standards for seamless integration into hospital systems.
5	The software shall include a PCIe grabber card for HD image archiving and documentation, shall be user-friendly, and shall provide provisions for recording, editing of still and moving frames, report generation, and necessary foot pedal control.
H	**COMPUTER SYSTEM SPECIFICATIONS**
1	Vendor shall provide the computer and printer specifications required for this endoscopy system.

S N	ADDITIONAL REQUIREMENTS FOR ALL EQUIPMENT
1	The procurement and supply of equipment shall be executed in a phased manner, subject to the requirements and priorities as determined by the Client. The sequence, timelines, and quantum of each procurement phase will be communicated in writing by the Client during the awarding of order. The Vendor shall comply with such directives and ensure timely readiness to supply, install, and commission equipment as per the approved phased plan.
2	The bidder shall provide a Rate Contract for 3 years from the date of supply / installation / commissioning, covering system specific consumables and accessories
3	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)
4	The corresponding unit prices for the same items shall be submitted only in the Commercial Offer.
5	The vendor should specify the country of origin for all the quoted model.

ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	1)UPPER GI SYSTEM						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	2		STANDARD			
2	HARDWARE	4K MEDICAL GRADE MONITOR	2		STANDARD			
3	HARDWARE	UPPER GASTROINTESTINAL VIDEOSCOPE (ADULT)	3		STANDARD			
4	HARDWARE	UPPER GASTROINTESTINAL VIDEOSCOPE (PAEDIATRIC)	1		STANDARD			
5	HARDWARE	THERAPEUTIC GASTRO SCOPE (ADULT)	1		STANDARD			
6	HARDWARE	ZOOM SCOPE UPGRADE	1		STANDARD			
7	HARDWARE	BALLOON CONTROL UNIT WITH SCOPE , ACCESSORIES AND CONSUMABLES	1		STANDARD			

8	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	2		STANDARD			
9	HARDWARE	FLUSHING PUMP	2		STANDARD			
10	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	2		STANDARD			
11	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	2		STANDARD			
12	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	2		STANDARD			
13	ACCESSORY	LOW FLOW TUBINGS	2		STANDARD			
14	ACCESSORY	FLUSHING PUMP FOOT PEDAL	2		STANDARD			
15	ACCESSORY	WATER CONTAINER WITH LID	2		STANDARD			
16	ACCESSORY	TUBINGS FOR FLUSHING PUMP	2		STANDARD			
17	ACCESSORY	ADAPTOR FOR FLUSHING PUMP	2		STANDARD			
18	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	2		STANDARD			
19	ACCESSORY	PROTECTIVE DISTAL COVER	2		STANDARD			
20	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
21	ACCESSORY	POWER CORD - INDIAN	2		STANDARD			
22	OEM ITEM	TROLLEY CART	2		STANDARD			
23	CONSUMABLE	BIOPSY FORCEPS	1 PACK		STANDARD			
24	CONSUMABLE	DISTAL HOOD (BLACK)	1 BOX		STANDARD			
25	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
26	ANY ITEM, ACCESSORY, CONSUMABLE, CABLE, CONNECTOR, SOFTWARE, OR				STANDARD			

	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 PURPOSES.							
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	2					
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							
ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	2)LOWER GI SYSTEM						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)

						INVOICE WITH ENCLOSED LINE ITEMS)		
1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	1		STANDARD			
2	HARDWARE	4K MEDICAL GRADE MONITOR	1		STANDARD			
3	HARDWARE	LOWER GASTROINTESTINAL VIDEOSCOPE (ADULT)	1		STANDARD			
4	HARDWARE	LOWER GASTROINTESTINAL VIDEOSCOPE (PEDIATRIC)	1		STANDARD			
5	HARDWARE	ZOOM SCOPE	1		STANDARD			
6	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	1		STANDARD			
7	HARDWARE	FLUSHING PUMP	1		STANDARD			
8	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD			
9	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	1		STANDARD			
10	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	1		STANDARD			
11	ACCESSORY	LOW FLOW TUBINGS	1		STANDARD			
12	ACCESSORY	FLUSHING PUMP FOOT PEDAL	1		STANDARD			
13	ACCESSORY	WATER CONTAINER WITH LID	1		STANDARD			
14	ACCESSORY	TUBINGS FOR FLUSHING PUMP	1		STANDARD			

15	ACCESSORY	ADAPTOR FOR FLUSHING PUMP	1		STANDARD			
16	ACCESSORY	PROTECTIVE DISTAL COVER	1		STANDARD			
17	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
18	ACCESSORY	POWER CORD - INDIAN	1		STANDARD			
19	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD			
20	CONSUMABLE	BIOPSY FORCEPS	1 PACK		STANDARD			
21	CONSUMABLE	DISTAL HOOD (BLACK)	1		STANDARD			
22	OEM ITEM	TROLLEY CART	1		STANDARD			
23	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING							
24	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 PURPOSES.							
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	OPTIONAL	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)

						PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)		
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK					
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							
ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	3)ERCP SYSTEM						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	HD VIDEO PROCESSOR	1		STANDARD			
2	HARDWARE	LIGHT SOURCE	1		STANDARD			
3	HARDWARE	HD MEDICAL GRADE MONITOR	1		STANDARD			
4	HARDWARE	ERCP SCOPE	1		STANDARD			
5	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	1		STANDARD			
6	SOFTWARE	HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD			

7	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	2		STANDARD			
8	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	2		STANDARD			
9	ACCESSORY	LOW FLOW TUBINGS	2		STANDARD			
10	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
11	ACCESSORY	POWER CORD - INDIAN	1		STANDARD			
12	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD			
13	CONSUMABLES	SPINCTERTOME	2		STANDARD			
14	CONSUMABLES	GUIDE WIRE	2		STANDARD			
15	CONSUMABLES	STONE EXTRACTION BALLOON	2		STANDARD			
16	CONSUMABLES	DISTAL END CAP	1 BOX		STANDARD			
17	OEM ITEM	TROLLEY CART	1		STANDARD			
18	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING							
19	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 PURPOSES.								

SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK					
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							
ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	4)EUS SYSTEM						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	HD VIDEO PROCESSOR	1		STANDARD			
2	HARDWARE	LIGHT SOURCE	1		STANDARD			
3	HARDWARE	HD MEDICAL GRADE MONITOR	1		STANDARD			
4	HARDWARE	DEDICATE INTEGRATED ULTRASOUND	1		STANDARD			

		PROCESSOR FOR ENDOSCOPY PROCEDURE						
5	HARDWARE	UPPER GASTROINTESTINAL ULTRASOUNDSCOPE (ADULT- LINEAR)	1		STANDARD			
6	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	1		STANDARD			
7	SOFTWARE	HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD			
8	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	2		STANDARD			
9	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	2		STANDARD			
10	ACCESSORY	LOW FLOW TUBINGS	2		STANDARD			
11	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
12	ACCESSORY	POWER CORD - INDIAN	1		STANDARD			
13	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD			
14	CONSUMABLE	FNAC NEEDLES	1 PACK		STANDARD			
15	OEM ITEM	TROLLEY CART	1		STANDARD			
16	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
17	ANY ITEM, ACCESSORY, CONSUMABLE, CABLE, CONNECTOR, SOFTWARE, OR COMPONENT THAT IS PART OF THE SYSTEM AS PER TENDER REQUIREMENTS BUT NOT				STANDARD			

	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 PURPOSES.							
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	HARDWARE	UPPER GASTROINTESTINAL ULTRASOUNDSCOPE (ADULT-RADIAL)						
2	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK					
3	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							

ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	5) UPPER AND LOWER GASTROINTESTINAL MOBILE ENDOSCOPY SYSTEM						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)

						MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)		
1	**HARDWARE**	**4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE**	**1**		**STANDARD**			
2	**HARDWARE**	**4K MEDICAL GRADE MONITOR**	**1**		**STANDARD**			
3	**HARDWARE**	**UPPER GASTROINTESTINAL VIDEOSCOPE (ADULT)**	**1**		**STANDARD**			
4	**HARDWARE**	**UPPER GASTROINTESTINAL VIDEOSCOPE (PAEDIATRIC)**	**1**		**STANDARD**			
5	**HARDWARE**	**LOWER GASTROINTESTINAL VIDEOSCOPE (ADULT)**	**1**		**STANDARD**			
6	**HARDWARE**	**LOWER GASTROINTESTINAL VIDEOSCOPE (PAEDIATRIC)**	**1**		**STANDARD**			
7	**HARDWARE**	**CO_2 INSUFFLATOR WITH REGULATOR**	**1**		**STANDARD**			
8	**HARDWARE**	**FLUSHING PUMP**	**1**		**STANDARD**			
9	**SOFTWARE**	**4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM**	**1**		**STANDARD**			
10	**ACCESSORY**	**HOSE PIPE FOR CO2 REGULATOR**	**1**		**STANDARD**			
11	**ACCESSORY**	**ADAPTOR FOR CO2 REGULATOR**	**1**		**STANDARD**			
12	**ACCESSORY**	**LOW FLOW TUBINGS**	**1**		**STANDARD**			
13	**ACCESSORY**	**FLUSHING PUMP FOOT PEDAL**	**1**		**STANDARD**			

14	ACCESSORY	WATER CONTAINER WITH LID	1		STANDARD			
15	ACCESSORY	TUBINGS FOR FLUSHING PUMP	1		STANDARD			
16	ACCESSORY	ADAPTOR FOR FLUSHING PUMP	1		STANDARD			
17	ACCESSORY	PROTECTIVE DISTAL COVER	1		STANDARD			
18	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
19	ACCESSORY	POWER CORD - INDIAN	1		STANDARD			
20	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD			
21	CONSUMABLES	BIOPSY FORCEPS	1 PACK		STANDARD			
22	CONSUMABLES	DISTAL HOOD (BLACK)	1		STANDARD			
23	OEM ITEM	TROLLEY CART	1		STANDARD			
24	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
25	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 PURPOSES.				STANDARD			

SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	2					
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							

ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)		
	EQUIPMENT NAME	6)BRONCHOSCOPY SYSTEM
	VENDOR NAME	
	MAKE	
	MODEL NAME	

SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	1		STANDARD			
2	HARDWARE	4K MEDICAL GRADE MONITOR	1		STANDARD			
3	HARDWARE	DEDICATE INTEGRATED ULTRASOUND	1		STANDARD			

		PROCESSOR FOR ENDOSCOPY PROCEDURE						
4	HARDWARE	BRONCHOSCOPE (ADULT)	1		STANDARD			
5	HARDWARE	BRONCHOSCOPE (THIN PAEDIATRIC)	1		STANDARD			
6	HARDWARE	BRONCHOSCOPE (NEONATAL)	1		STANDARD			
7	HARDWARE	THORACHOSCOPE	1		STANDARD			
8	HARDWARE	EBUS SCOPE	1		STANDARD			
9	HARDWARE	RADIAL EBUS I	1		STANDARD			
10	HARDWARE	MECHANICAL DRIVING UNIT	1		STANDARD			
11	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	2		STANDARD			
12	ACCESSORY	LEAKAGE TESTER WITH AIR COMPRESSOR UNIT	1		STANDARD			
13	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD			
14	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
15	ACCESSORY	POWER CORD - INDIAN	1		STANDARD			
16	ACCESSORY	TROCAR	2		STANDARD			
17	CONSUMABLE	EBUS NEEDLE 19G	3		STANDARD			
18	CONSUMABLE	EBUS NEEDLE 21G	3		STANDARD			
19	CONSUMABLE	EBUS NEEDLE 22G	3		STANDARD			
20	CONSUMABLE	EBUS BALLOONS	1 PACK		STANDARD			

21	CONSUMABLE	BIOPSY FORCEPS ADULT	1 PACK		STANDARD			
22	CONSUMABLE	BIOPSY FORCEPS PAEDIATRIC	1 PACK		STANDARD			
23	CONSUMABLE	BIOPSY FORCEPS THORACHOSCOPE	1 PACK		STANDARD			
24	OEM ITEM	TROLLEY CART	1		STANDARD			
25	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
26	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 PURPOSES.				STANDARD			
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)

1	HARDWARE	BRONCHOSCOPE (PAEDIATRIC) - UPGRADE	1					
2	HARDWARE	RADIAL II - UPGRADE	1					
3	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK					
4	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							
ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	7.1 & 7.2) PORTABLE BRONCHOSCOPY SYSTEM						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	PORTABLE BRONCHOSCOPE ADULT	1		STANDARD			
2	HARDWARE	PORTABLE BRONCHOSCOPE PAEDIATRIC	1		STANDARD			
3	HARDWARE	MANUAL LEAKAGE TESTER	1		STANDARD			
4	ACCESSORY	MEMORY CARD	2		STANDARD			
5	ACCESSORY	BATTERY	4		STANDARD			
6	ACCESSORY	CHARGER	2		STANDARD			

7	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
8	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 PURPOSES.				STANDARD			
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							

ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)		
	EQUIPMENT NAME	8)ENDOSCOPY WASHER
	VENDOR NAME	
	MAKE	
	MODEL NAME	

SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	ENDOSCOPIC REPROCESSING UNIT	2		STANDARD			
2	HARDWARE	LEAKAGE TESTER WITH AIR COMPRESSOR UNIT	3		STANDARD			
3	ACCESSORY	GASTROSCOPE CONNECTING ADAPTOR	2		STANDARD			
4	ACCESSORY	COLONOSCOPE CONNECTING ADAPTOR	2		STANDARD			
5	ACCESSORY	BRONCHOSCOPE CONNECTING ADAPTOR	2		STANDARD			
6	ACCESSORY	ERCP CONNECTING ADAPTOR	2		STANDARD			
7	ACCESSORY	EUS CONNECTING ADAPTOR	2		STANDARD			
8	ACCESSORY	EBUS CONNECTING ADAPTOR	2		STANDARD			
9	ACCESSORY	INTUBATION SCOPE CONNECTING ADAPTOR	2		STANDARD			
10	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
11	ANY ITEM, ACCESSORY, CONSUMABLE, CABLE, CONNECTOR, SOFTWARE, OR				STANDARD			

	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 PURPOSES.							
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							
ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)								
	EQUIPMENT NAME	9)WORKFLOW ITEMS						
	VENDOR NAME							
	MAKE							
	MODEL NAME							
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)

						ENCLOSED LINE ITEMS)		
1	WORKFLOW ITEMS	SCOPE CARRYING CASE(GASTRO)	2		STANDARD			
2	WORKFLOW ITEMS	SCOPE CARRYING CASE(BRONCHO)	2		STANDARD			
3	WORKFLOW ITEMS	SCOPE CARRYING CASE(ERCP)	1		STANDARD			
4	WORKFLOW ITEMS	INTUBATION SCOPE CARRYING CASE	1		STANDARD			
5	WORKFLOW ITEMS	DRYING TABLE WITH AIR GUN	3		STANDARD			
6	WORKFLOW ITEMS	DISINFECTION SINK(3 BAY SINK)	1		STANDARD			
7	WORKFLOW ITEMS	DISINFECTION SINK(2 BAY SINK)	1		STANDARD			
8	WORKFLOW ITEMS	SCOPE HANGER CABINET FOR ALL QUOTED SCOPE	4		STANDARD			
9	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
10	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 PURPOSES.				STANDARD			

SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							

ANNEXURE II: SCOPE OF SUPPLY (FOR TECHNICAL BID)		
	EQUIPMENT NAME	10)INTUBATION SYSTEM
	VENDOR NAME	
	MAKE	
	MODEL NAME	

SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)
1	HARDWARE	HD VIDEO PROCESSOR WITH LIGHT SOURCE	3		STANDARD			
2	HARDWARE	24 INCH HD MEDICAL GRADE MONITOR	3		STANDARD			
3	HARDWARE	INTUBATION SCOPE (ADULT)	3		STANDARD			
4	HARDWARE	INTUBATION SCOPE (PAEDIATRIC)	1		STANDARD			

5	ACCESSORY	HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	3		STANDARD			
6	ACCESSORY	LEAKAGE TESTER WITH AIR COMPRESSOR UNIT	1		STANDARD			
7	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD			
8	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD			
9	ACCESSORY	POWER CORD - INDIAN	3		STANDARD			
10	OEM ITEM	TROLLEY CART	3		STANDARD			
11	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD			
12	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)”				STANDARD			

	FOR DOCUMENTATION PURPOSES.							
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)
1	CONSUMABLE	FNAC NEEDLES	1 PACK					
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW							

ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	1)UPPER GI SYSTEM										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (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	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST

1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	2		STANDARD							
2	HARDWARE	4K MEDICAL GRADE MONITOR	2		STANDARD							
3	HARDWARE	UPPER GASTROINTESTINAL VIDEOSCOPE (ADULT)	3		STANDARD							
4	HARDWARE	UPPER GASTROINTESTINAL VIDEOSCOPE (PAEDIATRIC)	1		STANDARD							
5	HARDWARE	THERAPEUTIC GASTRO SCOPE (ADULT)	1		STANDARD							
6	HARDWARE	ZOOM SCOPE UPGRADE	1		STANDARD							
7	HARDWARE	BALLOON CONTROL UNIT WITH SCOPE , ACCESSORIES AND CONSUMABLES	1		STANDARD							
8	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	2		STANDARD							
9	HARDWARE	FLUSHING PUMP	2		STANDARD							
10	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	2		STANDARD							
11	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	2		STANDARD							
12	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	2		STANDARD							
13	ACCESSORY	LOW FLOW TUBINGS	2		STANDARD							
14	ACCESSORY	FLUSHING PUMP FOOT PEDAL	2		STANDARD							

15	ACCESSORY	WATER CONTAINER WITH LID	2		STANDARD							
16	ACCESSORY	TUBINGS FOR FLUSHING PUMP	2		STANDARD							
17	ACCESSORY	ADAPTOR FOR FLUSHING PUMP	2		STANDARD							
18	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	2		STANDARD							
19	ACCESSORY	PROTECTIVE DISTAL COVER	2		STANDARD							
20	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
21	ACCESSORY	POWER CORD - INDIAN	2		STANDARD							
22	OEM ITEM	TROLLEY CART	2		STANDARD							
23	CONSUMABLE	BIOPSY FORCEPS	1 PACK		STANDARD							
24	CONSUMABLE	DISTAL HOOD (BLACK)	1 BOX		STANDARD							
25	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
26	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				STANDARD							

	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 PURPOSES.											
GRAND TOTAL												
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	2									
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											

ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)													
	EQUIPMENT NAME	2)LOWER GI SYSTEM											
	VENDOR NAME												
	MAKE												
	MODEL NAME												
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (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	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	1		STANDARD							
2	HARDWARE	4K MEDICAL GRADE MONITOR	1		STANDARD							
3	HARDWARE	LOWER GASTROINTESTINAL VIDEOSCOPE (ADULT)	1		STANDARD							
4	HARDWARE	LOWER GASTROINTESTINAL VIDEOSCOPE (PAEDIATRIC)	1		STANDARD							
5	HARDWARE	ZOOM SCOPE UPGRADE	1		STANDARD							
6	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	1		STANDARD							

7	HARDWARE	FLUSHING PUMP	1		STANDARD							
8	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD							
9	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	1		STANDARD							
10	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	1		STANDARD							
11	ACCESSORY	LOW FLOW TUBINGS	1		STANDARD							
12	ACCESSORY	FLUSHING PUMP FOOT PEDAL	1		STANDARD							
13	ACCESSORY	WATER CONTAINER WITH LID	1		STANDARD							
14	ACCESSORY	TUBINGS FOR FLUSHING PUMP	1		STANDARD							
15	ACCESSORY	ADAPTOR FOR FLUSHING PUMP	1		STANDARD							
16	ACCESSORY	PROTECTIVE DISTAL COVER	1		STANDARD							
17	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
18	ACCESSORY	POWER CORD - INDIAN	1		STANDARD							
19	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD							
20	CONSUMABLE	BIOPSY FORCEPS	1 PACK		STANDARD							
21	CONSUMABLE	DISTAL HOOD (BLACK)	1		STANDARD							

22	OEM ITEM	TROLLEY CART	1		STANDARD							
23	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING											
24	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 PURPOSES.											
GRAND TOTAL												

SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK									
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	3)ERCP SYSTEM										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST

						LINE ITEMS)						
1	HARDWARE	HD VIDEO PROCESSOR	1		STANDARD							
2	HARDWARE	LIGHT SOURCE	1		STANDARD							
3	HARDWARE	HD MEDICAL GRADE MONITOR	1		STANDARD							
4	HARDWARE	ERCP SCOPE	1		STANDARD							
5	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	1		STANDARD							
6	SOFTWARE	HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD							
7	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	2		STANDARD							
8	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	2		STANDARD							
9	ACCESSORY	LOW FLOW TUBINGS	2		STANDARD							
10	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
11	ACCESSORY	POWER CORD - INDIAN	1		STANDARD							
12	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD							
13	CONSUMABLES	SPINCTERTOME	2		STANDARD							
14	CONSUMABLES	GUIDE WIRE	2		STANDARD							

15	CONSUMABLES	STONE EXTRACTION BALLOON	2		STANDARD							
16	CONSUMABLES	DISTAL END CAP	1 BOX		STANDARD							
17	OEM ITEM	TROLLEY CART	1		STANDARD							
18	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING											
19	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 PURPOSES.											
GRAND TOTAL												
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK									
2	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	4)EUS SYSTEM										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTE	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF	UNIT PRICE	TOTAL COST FOR THE QUANTITY	GST %	TOTAL COST

						D TO MAP THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)		APPLICABLE)		MENTIONED		WITH GST
1	HARDWARE	HD VIDEO PROCESSOR	1		STANDARD							
2	HARDWARE	LIGHT SOURCE	1		STANDARD							
3	HARDWARE	HD MEDICAL GRADE MONITOR	1		STANDARD							
4	HARDWARE	DEDICATE INTEGRATED ULTRASOUND PROCESSOR FOR ENDOSCOPY PROCEDURE	1		STANDARD							
5	HARDWARE	UPPER GASTROINTESTINAL ULTRASOUNDSCOPE (ADULT-LINEAR)	1		STANDARD							
6	HARDWARE	CO_2 REGULATOR UNIT	1		STANDARD							
7	SOFTWARE	HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD							
8	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	2		STANDARD							

9	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	2		STANDARD							
10	ACCESSORY	LOW FLOW TUBINGS	2		STANDARD							
11	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
12	ACCESSORY	POWER CORD - INDIAN	1		STANDARD							
13	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD							
14	CONSUMABLE	FNAC NEEDLES	1 PACK		STANDARD							
15	OEM ITEM	TROLLEY CART	1		STANDARD							
16	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
17	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				STANDARD							

	PROVIDED BY THE VENDOR WITHOUT ADDITIONAL COST. THE VENDOR MAY LIST SUCH ITEMS UNDER "STANDARD INCLUSIONS (NOT SEPARATELY CHARGED)" FOR DOCUMENTATION PURPOSES.											
GRAND TOTAL												
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	HARDWARE	UPPER GASTROINTESTINAL ULTRASOUNDSCOPE (ADULT-RADIAL)										
2	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK									
3	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											

ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)													
	EQUIPMENT NAME	5) UPPER AND LOWER GASTROINTESTINAL MOBILE ENDOSCOPY SYSTEM											
	VENDOR NAME												
	MAKE												
	MODEL NAME												
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (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	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	1		STANDARD							
2	HARDWARE	4K MEDICAL GRADE MONITOR	1		STANDARD							
3	HARDWARE	UPPER GASTROINTESTINAL VIDEOSCOPE (ADULT)	1		STANDARD							
4	HARDWARE	UPPER GASTROINTESTINAL VIDEOSCOPE (PAEDIATRIC)	1		STANDARD							
5	HARDWARE	LOWER GASTROINTESTINAL VIDEOSCOPE (ADULT)	1		STANDARD							

6	HARDWARE	LOWER GASTROINTESTINAL VIDEOSCOPE (PEDIATRIC)	1		STANDARD							
7	HARDWARE	CO_2 INSUFFLATOR WITH REGULATOR	1		STANDARD							
8	HARDWARE	FLUSHING PUMP	1		STANDARD							
9	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	1		STANDARD							
10	ACCESSORY	HOSE PIPE FOR CO2 REGULATOR	1		STANDARD							
11	ACCESSORY	ADAPTOR FOR CO2 REGULATOR	1		STANDARD							
12	ACCESSORY	LOW FLOW TUBINGS	1		STANDARD							
13	ACCESSORY	FLUSHING PUMP FOOT PEDAL	1		STANDARD							
14	ACCESSORY	WATER CONTAINER WITH LID	1		STANDARD							
15	ACCESSORY	TUBINGS FOR FLUSHING PUMP	1		STANDARD							
16	ACCESSORY	ADAPTOR FOR FLUSHING PUMP	1		STANDARD							
17	ACCESSORY	PROTECTIVE DISTAL COVER	1		STANDARD							
18	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
19	ACCESSORY	POWER CORD - INDIAN	1		STANDARD							
20	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD							
21	CONSUMABLES	BIOPSY FORCEPS	1 PACK		STANDARD							

22	CONSUMABLES	DISTAL HOOD (BLACK)	1		STANDARD							
23	OEM ITEM	TROLLEY CART	1		STANDARD							
24	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
25	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 PURPOSES.				STANDARD							

GRAND TOTAL												
SNO	**OPTIONAL GROUP**	**ITEM NAME**	**QUANTITY**	**VENDOR CATALOGUE NUMBER**	**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)**	**UNIT PRICE**	**TOTAL COST FOR THE QUANTITY MENTIONED**	**GST %**	**TOTAL COST WITH GST**
1	**OEM ITEM**	**TROLLEY CART TO PENDANT UPGRADE**	**2**									
2	**ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW**											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	**6)BRONCHOSCOPY SYSTEM**										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	**GROUP**	**ITEM NAME**	**QUANTITY**	**VENDOR CATALOGUE NUMBER**	**STANDARD**	**REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR**	**QUOTE REFERENCE:SN)**	**QUOTE PAGE REFERENCE IF APPLICABLE)**	**UNIT PRICE**	**TOTAL COST FOR THE QUANTITY MENTIONED**	**GST %**	**TOTAL COST WITH GST**

						PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)						
1	HARDWARE	4K VIDEO PROCESSOR WITH INBUILT MULTI LED LIGHT SOURCE	1		STANDARD							
2	HARDWARE	4K MEDICAL GRADE MONITOR	1		STANDARD							
3	HARDWARE	DEDICATE INTEGRATED ULTRASOUND PROCESSOR FOR ENDOSCOPY PROCEDURE	1		STANDARD							
4	HARDWARE	BRONCHOSCOPE (ADULT)	1		STANDARD							
5	HARDWARE	BRONCHOSCOPE (THIN PAEDIATRIC)	1		STANDARD							
6	HARDWARE	BRONCHOSCOPE (NEONATAL)	1		STANDARD							
7	HARDWARE	THORACHOSCOPE	1		STANDARD							
8	HARDWARE	EBUS SCOPE	1		STANDARD							
9	HARDWARE	RADIAL EBUS - 1.4MM DISTAL END	1		STANDARD							
10	HARDWARE	MECHANICAL DRIVING UNIT	1		STANDARD							
11	SOFTWARE	4K IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	2		STANDARD							

12	ACCESSORY	LEAKAGE TESTER WITH AIR COMPRESSOR UNIT	1		STANDARD							
13	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD							
14	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
15	ACCESSORY	POWER CORD - INDIAN	1		STANDARD							
16	ACCESSORY	TROCAR	2		STANDARD							
17	CONSUMABLE	EBUS NEEDLE 19G	3		STANDARD							
18	CONSUMABLE	EBUS NEEDLE 21G	3		STANDARD							
19	CONSUMABLE	EBUS NEEDLE 22G	3		STANDARD							
20	CONSUMABLE	EBUS BALLOONS	1 PACK		STANDARD							
21	CONSUMABLE	BIOPSY FORCEPS ADULT	1 PACK		STANDARD							
22	CONSUMABLE	BIOPSY FORCEPS PAEDIATRIC	1 PACK		STANDARD							
23	CONSUMABLE	BIOPSY FORCEPS THORACHOSCOPE	1 PACK		STANDARD							
24	OEM ITEM	TROLLEY CART	1		STANDARD							
25	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
26	ANY ITEM, ACCESSORY, CONSUMABLE,				STANDARD							

	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 PURPOSES.											
GRAND TOTAL												
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	OPTIONAL	REMARKS (VENDOR ARE REQUESTED TO MAP	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF	UNIT PRICE	TOTAL COST FOR THE QUANTITY	GST %	TOTAL COST WITH GST

						THEIR ITEMS IN THEIR PROFORMA INVOICE WITH ENCLOSED LINE ITEMS)		APPLICABLE)		MENTIONED		
1	HARDWARE	BRONCHOSCOPE (PAEDIATRIC) - UPGRADE	1									
2	HARDWARE	RADIAL EBUS 1.7MM DISTAL END - UPGRADE	1									
3	OEM ITEM	TROLLEY CART TO PENDANT UPGRADE	WORK									
4	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	7.1 & 7.2)PORTABLE BRONCHOSCOPY SYSTEM										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR ITEMS IN THEIR PROFORM	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST

						A INVOICE WITH ENCLOSED LINE ITEMS)						
1	HARDWARE	PORTABLE BRONCHOSCOPE ADULT	1		STANDARD							
2	HARDWARE	PORTABLE BRONCHOSCOPE PAEDIATRIC	1		STANDARD							
3	HARDWARE	MANUAL LEAKAGE TESTER	1		STANDARD							
4	ACCESSORY	MEMORY CARD	2		STANDARD							
5	ACCESSORY	BATTERY	4		STANDARD							
6	ACCESSORY	CHARGER	2		STANDARD							
7	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
8	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				STANDARD							

	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 PURPOSES.											
GRAND TOTAL												
SNO	**OPTIONAL GROUP**	**ITEM NAME**	**QUANTITY**	**VENDOR CATALOGUE NUMBER**	**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)**	**UNIT PRICE**	**TOTAL COST FOR THE QUANTITY MENTIONED**	**GST %**	**TOTAL COST WITH GST**
1	**ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW**											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												

	EQUIPMENT NAME	8)ENDOSCOPY WASHER										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (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	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	HARDWARE	ENDOSCOPIC REPROCESSING UNIT	2		STANDARD							
2	HARDWARE	LEAKAGE TESTER WITH AIR COMPRESSOR UNIT	3		STANDARD							
3	ACCESSORY	GASTROSCOPE CONNECTING ADAPTOR	2		STANDARD							
4	ACCESSORY	COLONOSCOPE CONNECTING ADAPTOR	2		STANDARD							
5	ACCESSORY	BRONCHOSCOPE CONNECTING ADAPTOR	2		STANDARD							
6	ACCESSORY	ERCP CONNECTING ADAPTOR	2		STANDARD							

7	ACCESSORY	EUS CONNECTING ADAPTOR	2		STANDARD							
8	ACCESSORY	EBUS CONNECTING ADAPTOR	2		STANDARD							
9	ACCESSORY	INTUBATION SCOPE CONNECTING ADAPTOR	2		STANDARD							
10	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
11	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				STANDARD							

	INCLUSIONS (NOT SEPARATELY CHARGED)" FOR DOCUMENTATION PURPOSES.											
GRAND TOTAL												
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	9)WORKFLOW ITEMS										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (VENDOR ARE REQUESTED TO MAP THEIR	QUOTE REFERENCE:SN)	QUOTE PAGE REFERENCE IF APPLICABLE)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST

						ITEMS IN THEIR PROFORM A INVOICE WITH ENCLOSED LINE ITEMS)						
1	WORKFLOW ITEMS	SCOPE CARRYING CASE(GASTRO)	2		STANDARD							
2	WORKFLOW ITEMS	SCOPE CARRYING CASE(BRONCHO)	2		STANDARD							
3	WORKFLOW ITEMS	SCOPE CARRYING CASE(ERCP)	1		STANDARD							
4	WORKFLOW ITEMS	INTUBATION SCOPE CARRYING CASE	1		STANDARD							
5	WORKFLOW ITEMS	DRYING TABLE WITH AIR GUN	3		STANDARD							
6	WORKFLOW ITEMS	DISINFECTION SINK(3 BAY SINK)	1		STANDARD							
7	WORKFLOW ITEMS	DISINFECTION SINK(2 BAY SINK)	1		STANDARD							
8	WORKFLOW ITEMS	SCOPE HANGER CABINET FOR ALL QUOTED SCOPE	4		STANDARD							
9	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
10	ANY ITEM, ACCESSORY, CONSUMABLE, CABLE, CONNECTOR, SOFTWARE, OR COMPONENT THAT IS PART OF THE SYSTEM AS				STANDARD							

	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 PURPOSES.											
GRAND TOTAL												
SNO	OPTIONAL GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	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)	UNIT PRICE	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST

1	ALL OTHER ITEMS IN VENDOR CATALOGUE TO BE ADDED BELOW											
ANNEXURE III: SCOPE OF SUPPLY (FOR COMMERCIAL BID)												
	EQUIPMENT NAME	10)INTUBATION SYSTEM										
	VENDOR NAME											
	MAKE											
	MODEL NAME											
SNO	GROUP	ITEM NAME	QUANTITY	VENDOR CATALOGUE NUMBER	STANDARD	REMARKS (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	TOTAL COST FOR THE QUANTITY MENTIONED	GST %	TOTAL COST WITH GST
1	HARDWARE	HD VIDEO PROCESSOR WITH LIGHT SOURCE	3		STANDARD							
2	HARDWARE	24 INCH HD MEDICAL GRADE MONITOR	3		STANDARD							
3	HARDWARE	INTUBATION SCOPE (ADULT)	3		STANDARD							
4	HARDWARE	INTUBATION SCOPE (PAEDIATRIC)	1		STANDARD							

5	ACCESSORY	HD IMAGE CAPTURING AND VIDEO RECORDING SOFTWARE WITH DICOM	3		STANDARD							
6	ACCESSORY	LEAKAGE TESTER WITH AIR COMPRESSOR UNIT	1		STANDARD							
7	ACCESSORY	HDMI CONVERTOR WITH HDMI CABLE FOR STREAMING	1		STANDARD							
8	ACCESSORY	ALL CONNECTING CABLES	LOT		STANDARD							
9	ACCESSORY	POWER CORD - INDIAN	3		STANDARD							
10	OEM ITEM	TROLLEY CART	3		STANDARD							
11	ANY OTHER PART TO MAKE SYSTEM COMPLETE & WORKING				STANDARD							
12	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				STANDARD							

	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 PURPOSES.											
GRAND TOTAL												
SNO	**OPTIONAL GROUP**	**ITEM NAME**	**QUANTITY**	**VENDOR CATALOGUE NUMBER**	**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)**	**UNIT PRICE**	**TOTAL COST FOR THE QUANTITY MENTIONED**	**GST %**	**TOTAL COST WITH GST**
1	**CONSUMABLE**	**FNAC NEEDLES**	**1 PACK**									
2	**ALL OTHER ITEMS IN VENDOR CATALOGUE TO**											

	BE ADDED BELOW											

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

CHECKLIST FOR VENDOR BEFORE SENDING THE TECHNICAL BID			
Sl. 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 **fully disclosed** by the bidder in the technical bid submission.		Section C-Point 3.12
20	Note: Kindly index your technical bid considering the above-mentioned check sheet (not limited) preferably in spiral bound mentioning page number.		

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

	Checklist for Commercial Bid	Yes/No	Remarks
Sl. No.	**General Requirements**		
1	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 **HSN code** 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)		