

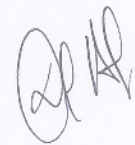




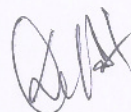
**Corrigendum for EBUS & EUS
Bid No. GEM/2023/B/4231664**

Sl.No.	Technical Specifications as per tender Document	Revised Technical Specificaion	Technical Specification (value) of the proposed Model. (As & where applicable)	compliance Yes/No	Deviation If Any/Remarks
	System includes: -	Systems Includes:-			
1	Ultrasonic Broncho video scope (for EBUS-TBNA)	Ultrasonic Brocho Video scope (for EBUS- TBNA)			
2	ULTRASONIC GASTROVIDEOSCOPE (RADIAL)	ULTRASONIC GASTROVIEOSCOPE (RADIAL)			
3	ULTRASONIC GASTROVIDEOSCOPE (LINEAR)	ULTRASONIC GASTROVIEOSCOPE (LINEAR)			
4	Slim Video Bronchoscope for Radial EBUS	Slim video bronchoscope for RADIAL EBUS			
5	Ultrasound Processor with Colour Doppler function	Ultrasound processor with colour doppler function			
6	Video Processor & Light source	Video processor and light source			
7	High resolution monitor	High resolution monitor			
8	Radial EBUS Probe Driving Unit with essential components.	Radial ebus probe driving unit with essential components			
9	Accessories for above system.	Accessories for above system			
10	Latest model to be provided.	Latest model to be provided			
11	System should include high resolution video processing for clarity of image.	System should include high resolution video processing for clarity of image.			
1	Ultrasonic Broncho video scope (EBUS- TBNA) with following specs -	ULTRASONC BRONCHO VIDEO SCOPE (EBUS-TBNA) with following specs-			
i	Field of view at 80° and above.	Field of View at 100° and above			
ii	Depth of field: Approximately 3-50 mm or better	Depth of field: appobimately 3-50 mm or better			
iii	Direction of view: 10- 20 degree forward oblique or less.	Direction of biew:- 10-20 degree forward oblique or less			
iv	Tip deflection: Up at least above 120° Down at least 70°	Tip deflection: up at least above 120° down at least 70°			
v	Distal end: ~6.7 mm or less	Distal end:- 6.7 mm or less			
vi	Insertion tube outer diameter: 6.3 mm or less	Insertion tube outer diameter: 6.3 mm or less			



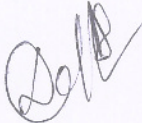
vii	Instrument channel width: At least 2 mm	Instrument channel width:- at least 2 mm or more			
viii	Working length: At least 600 mm	Working length:- at least 600 mm			
ix	Acoustic frequency: 5-12 MHz or more	Acoustic frequency: 5-12 MHz or more			
x	Scan angle- 60 degrees or more	Scab angle - 60 degrees in nire			
xi	Convex linear Array Probe with balloon and direct contact option.	Convex linear array probe with balloon and direct contact option			
xii	Scan direction parallel to insertion direction.	Scan direction parallel to insertion directon			
xiii	Video scope should preferably have separate channel for balloon inflation with saline which should be easily cleanable.	Video scope should preferably have separate channel for balloon inflation with saline which should be easily cleanable.			
2	ULTRASONIC GASTROVIDEOSCOPE (RADIAL)	ULLTRASONIC GASTROVIDEOSCOPE (RADIAL)			
i	Should have 360 degree electrical radial array.	Should have 360 degree electrical radial array.			
ii	Should have EUS images with four or more selectable frequencies.	Should have eus images wih four or more selectable frequencies.			
iii	Should have Colour and Power Doppler for effective confirmation of blood flow	Should have colour and power doppler for effective confirmation of blood flow			
iv	Should have lens cleaning function for keeping the endoscopic field of view clear at all times.	Should have lens cleaning function for keeping the endoscopic field of view clear at all times.			
v	Distal end should have short rigid portion for less trauma to the patient	Distal end should have short regid portion for less trauma to the patient			
vi	EUS Scope should be fully immersible for thorough cleaning.	EUS Scope should be fully immersible for thorough cleaning.(with or without waterproof cap)			
vii	Field of view : 100-140 degree	Field of view :- 100 140 degree			
viii	Direction of view : 40-60 degree Forward-oblique or forward viewing	direction of view : 40-60 degree forward oblique or forward viewing			
ix	Depth of field : 3 to 100 mm or less	depth of field : 3 to 100 mm or less			
x	Insertion tube outer diameter : 11-12.6 mm	insertion tube outer diameter : 11-12.6 mm			
xi	Instrument channel diameter : 2.8 or more	instrument channel diameter : 2.8 or more			
xii	Working Length :1250mm or more	working length: 1250mm or more			
xiii	Bending section : Up 190 deg, Dn 90 deg, Rt & Lt 100 deg or better	Bending section : Up 130 deg, Dn 90 deg, Rt & Lt 90 deg or better			

3	ULTRASONIC GASTROVIDEOSCOPE (LINEAR)	ULTRASONIC GASTROVIDEOSCOPE (LINEAR)			
i	Should have 150 degree or more electrical curved linear scanning	Should have 150 degree or more electrical curved linear scanning			
ii	Should have EUS images with four or more selectable frequencies	Should have EUS images with four or more selectable frequencies			
iii	Should have Colour and Power Doppler for effective confirmation of blood flow	Should have colour and power doppler for effective confirmation of blood flow			
iv	Distal end should have short rigid portion for less trauma to the patient	Distal end should have short rigid portion for less trauma to the patient			
v	Videoscope should have FNA (therapeutic) capability	Videoscope should have FNA (therapeutic) capability			
vi	EUS Scope should be fully immersible for thorough cleaning	EUS Scope should be fully immersible for thorough cleaning.(with or without waterproof cap)			
vii	Better to have compatibility of special light function such as NBI, FICE and i-scan.	Better to have compatibility of special light function such as NBI, FICE and I - scab			
viii	Field of view : 100-140 degree	Field of view : 100-140 degree			
ix	Direction of view : 40-60 degree Forward-oblique or forward viewing	Direction of view : 40-60 degree forward oblique or forward viewing			
x	Depth of field :3 to 100 mm or less	Depth of field : 3 to 100 mm or less			
xi	Insertion tube outer diameter: 11-12.6 mm	Insertion tube outer diameter : 11-12.6 mm			
xii	Distal End Diameter : 13.9 mm	Distal end diameter : 13.9 mm'			
xiii	Instrument channel diameter : 3-4 mm	Instrument channel diameter : 3-4 mm			
xiv	Working Length :1250 mm or more	Working length : 1250 mm or more			
xv	Bending section : Up 150 deg, Dn 150 deg, Rt & Lt 120 deg or better	bending section : up 130 deg. Dn 90 deg. Rt & Lt 90 deg or better			
4	Slim Video Bronchoscope for Radial EBUS:	Slim video bronchoscope for Radial EBUS			
	Should have following specifications:	should have following specification			
i	Lighter and possess high resolution image quality.	Lighter and possess high resolution image quality.			
ii	Should have camera on tip of scope.	Should have camera on tip of scope			
iii	Scope should have image enhancement function.	Scope should have image enhancement funtion			
iv	Fully immersible in disinfectant solution.	Fully immersible in disinfectant solution.			

v	Two or more no. of remote-control switches on control body.	Two or more no of remote control switches on control body.			
vi	Compatible with leakage testing device.	Compatible with leakage testing device.			
vii	Field of view should be at least 120 degree or more.	Field of view should be at least 120 degree or more			
viii	Direction of view should be 0-degree, forward viewing.	Direction of biew should be 0-degree forward biewing.			
ix	Depth of field should be 2 to 50 mm or better.	Depth of field should be 2 to 50 mm or better.			
x	Distal end outer diameter should be 4.2 mm or less.	Distal end outer diameter should be 4.2 mm or less			
xi	Insertion tube outer diameter should be 4.2 mm or less.	Insertion tube outer diameter should be 4.2 mm or less.			
xii	Tip Bending rage should be Up 210 deg & more, down 130 deg & more.	Tip bending rage should be up 210 deg & more down 130 deg & more.			
xiii	Working length : should be 600 mm or more.	Working length : should be 600 mm or more.			
xiv	Scope should have rotation function to rotate insertion portion at least 120 degrees.	Scope should have rotation funtion to rotate insertion portion at least 120 degrees.			
xv	Channel inner diameter : should be 2 mm or more.	Channel inner diameter : should be 2 mm or more			
5	Digital Color Video processor -	Digital color video processor			
i	Video output - 1 Y/Connectors, 1 composite video connector (at least) HD output should be available (DVI/HD-SDI), Any two HD outputs without converter.	Video output - 1 Y/ connectors, 1 composite video connector (at least) HD output should be available (DVI/HD-SDI), Any two HD output without converter.			
ii	Weight - preferably less than 25 kg.	Weight - preferably less than 25 kg.			
iii	Should be controlled from the front, keyboard or endoscopy remote switch.	Should be controlled from the front keyboard or endoscopy remote switch.			
iv	Should be capable of white balance free function, have provision for standard color change, adjustment automatic gain control (AGC), image enhancement selection etc.	Should be capable of white balance free funtion have provision for standard color change, adjustment automatic gain control (AGC) image enhancement selection etc.			
v	Should be compatible with the EBUS scope and ultrasound processor.	Sould be compatible with the ebus scope and ultrasound processor.			
vi	Should allow magnification or zoom function on still and dynamic images.	Should allow magnification or zoom funtion on still and dynamic images.			
vii	Should preferably have slot for inserting memory card or USB slot for Pen drive to store images.	Should pregerable have slot for inserting memory card or usb slot for pen drive to store images.			



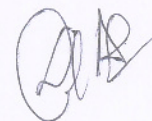




viii	All essential connectors and cables and other accessories to make the equipment functional and provide transfer of images / videos / data on a computer for storage and reporting.	All essential connectors and cables and other avcessories to make the equipment functional and provide transfer of images/ videos/ data on a computer for storage and reporting.			
ix	User friendly display to facilitate patient data management (reporting) example: Name, Age, Gender etc.	User fiendly display to facilitate patient data management (reporting) example: name, age, gender etc.			
x	Should have facility for image, size selection and freezing of images.	Should have facility for image, size selection and freezing of images.			
6	Light Source	Light Source			
i	Should have 300W Xenon Lamp plus an emergency halogen lamp for automatic backup in case of defect in main lamp or 300-watt equivalent Multi LED three or more.	Should have Multi LED (Three or more) light source equivalent illumination to 300watt xenon. Light Source should be AI compatible.			
ii	Should be compatible with the feature for early diagnosis of neoplastic mucosal changes.	Should be compatible with the feature for early diagnosis of neoplastic mucosal changes.			
iii	Should have facility for automatic brightness adjustment.	Should have facility for automatic brightness adjustment.			
7	Monitor	Monitor			
i	27" High-definition medical grade monitor compatible with processor with full range of colors & inputs including wide viewing angle as needed for proper functioning.	27" high-definition medical grade monitor compatible with processor with full range of colors & inputs including wide viewing angle as needed for proper functioning.			
8	Digital Ultrasound Scanner with Colour Doppler –	Digital ultrasound Scanner with Colour Doppler-			
i	Compatible with the above EBUS video scope & inbuilt/separate radial mini probe system (360° view).	Compatible with the above EBUS video scope & inbuilt/separate radial mini probe system (360° view)			
ii	High support-to automatically optimize the B-mode and Doppler images parameters (gain, baseline, PRF etc.), Color Doppler, Power Doppler, PW Doppler.	High support-to automatically optimize the B-mode and Doppler images parameters (gain, baseline, PRF etc.), color Doppler, Power, Power Doppler, PW Doppler.			
iii	Picture in picture for both ultrasound and endoscopic image simultaneously.	picture in picture for both ultrasound and endoscopic images simultaneously.			




iv	Tissue harmonic imaging, High resolution imaging.	Tissue harmonic imaging, High resolution imaging.			
v	Ergonomic operation keyboard for selection of gain, depth, frequency etc; preferably with integrated track-ball annotation arrow mark & pointer display.	Ergonomic operation keyboard for selection of gain, depth, frequency etc; preferably with integrated track-ball annotation arrow mark & pointer display.			
vi	Should have the facility to measure distance between two points.	Should have the facility to measure distance between two points.			
vii	Availability of B-mode & Doppler mode.	Availability of B-mode & Doppler mode.			
viii	Preferably should have facilities for lesion, area & volume estimation.	Preferably should have facilities for lesion, area & volume estimation.			
ix	Wide range of frequency 5-12 MHz or more	Wide range of frequency 5-12 MHz or more			
x	Attachment cord or in-built ultrasound connection cable for connecting ultrasound processor to EBUS scope.	Attachment cord or in-built ultrasound connection cable for connecting ultrasound to EBUS scope.			
9	Essential Accessories –	Essential Accessories-			
i	EBUS aspiration needle set from the same company or US-FDA/CE approved, minimum 50 numbers, 22G-30 no. and 19G-5no., 21G/25G - 15No.	EBUS aspiration needle set from the same company or US-FDA/CE approved, minimum 50 numbers,22G-30 no. and 19G-5no., 21G/25G-15No.			
ii	EBUS balloon 40 no.(minimum) preferably from the same company or USFDA/CE approved.	EBUS ballon 40 no.(minimum) preferably from the same company or USFDA/CE approved.			
iii	Mobile trolley with movable arm to move monitor and to mount the EBUS system and ultrasound.	Mobile trolley with movable arm to move monitor and to mount the EBUS system and ultrasound.			
iv	Quoted rate for disposables, consumables be for next 5 years after warranty.	Quoted rate for disposables, consumables be for next 5 years after warranty.			
v	All other essentials/ accessories required to make the machine function optimally.	All other essential/accessories required to make the machine function optimally.			
vi	Recording System for review & publication.	Recording System for review & publication.			
vii	Should have compatible footswitch or other options for capturing images/ videos during procedure.	Should have compatible footswitch or other options for capturing images/videos during procedure.			
viii	Efficient and user-friendly HD software installed in computer for recording, retrieval of data, storage and easy copying of images/videos from computer to DVD/ external hard disc.	Efficient and user-friendly HD software installed in computer for recording, retrieval of data, storage and easy copying of images/videos from computer to Pendrive/external hard disc.			
ix	Servo voltage stabilizer for the system.	Online UPS for the system.			
x	In the case of Xenon, Spare light source Xenon Lamp- 05 no.	In the case of Xenon, Spare light source Xenon Lamp-04 no.			
xi	Mouth Bite Guard-10 Nos.	Mouth Bite Guard -10 Nos.			
xii	Cleaning Brush for working channels-10 each.	Cleaning Brush for working channels-10 each.			

xiii	Balloon mounting forceps device- 1no.	Ballon mounting forceps device-1 no.			
xiv	Sclerotherapy needle - 10 nos.	Sclerotherapy needle-10 nos.			
xv	Endoscopic Hemoclip applier - 1 No.	Endoscopic Hemoclip applier- 1 No.			
10	RADIAL EBUS SPECIFICATIONS –	RADIAL EBUS SPECIFICATIONS-			
i	Radial ultrasound probe driving unit with frequency range 7.5 to 25 MHz or more.	Radial ultrasound probe driving unit with frequency range 7.5 to 25 MHz or more.			
ii	Probe of diameter - 1.4mm - 1.9mm(2Pcs)	Probe of diameter - 1.4mm-1.9mm (2Pcs)			
iii	360-degree scanning field of view And Frequency: up to 20MHz.	360-degree scanning field of view And Frequency: up to 20MHz			
iv	The diameter should be such that it fits in 2.0mm channel diameter of a bronchoscope quoted in the tender along with Guide Sheath.	The diameter should be such that it fits in 2.0mm channel diameter of a broncoscope quoted in the tender along with Guide Sheath.			
v	Should include slim miniature radial ultrasound probes enabling visualization at higher resolutions.	Should include slim miniature radial ultrasound probes enabling visualization at higer resolutions.			
vi	Compatible Guide sheath kit approved by company and biopsy forceps set for peripheral lesion -(5 Nos each)	Compatible Guide sheath kit approved by company and biopsy forceps set for peripheral lession -(5 Nos each)			
vii	Ultrasound connecting cable (Separate/inbuilt)	Ultrasound connecting cable (Separate/inbuilt)			
viii	Supporting arm for the radial probe driving unit.	Supporting arm for the radial probe driving unit.			
ix	Hanger to keep the accessories of linear probes in between procedures.	Hanger to keep the accessories of linear probes in between procesdures.			
x		Scope cabinet with Scope hangers to store all above (4 nos.) of scopes. (Additional point)			
11	Standards, Safety and Training	Standard Safety and Training			
i	The complete system should be US-FDA /European CE. certified product.	The complete system should be US- FDA/ European CE certified product.			
ii	Electrical safety conforms to standards for electrical safety IEC-60601	Electrical safety conforms to standards for electrical safety IEC-60601			
iii	Certified to be compliant with IC 60601-2-13-Medical Electrical Equipment	Certified to be compliant with IC 60601-2-13 Medical Electricals Equipment.			
iv	Should have local service facility from OEM company(submit details in the technical Bid.) and facility of repairing scopes in India.	Should have local service facilty from OEM company (submit details in the technical Bid.) and facility of repairing scopes in india.			

v	Should perform half yearly preventive maintenance during warranty & CMC (If CMC is entered into) which will include spares replacement, Preventive Maintenance, Breakdown calls.	Should perform half yearly preventive maintenance during warranty & CMC (if CMC is entered into) which will include spares replacement, preventive maintenance, breakdown calls.			
vi	Comprehensive warranty for 2 years and provision of CMC for next 8 years.	comprehensive warranty for 2 years and provision of CMC for next 8 years.			
viii	Supplier will assure supply of spares for a minimum period 10 years.	Supplier will assure supply of spares for a minimum period 10 years.			
12	Documentation	Documentation			
i	User Manual and service manual in English needs to be handed along with installation report.	User Manual and service manual in English needs to be headed along with installation report.			
ii	List of important spare parts and accessories with their part number and costing must be submitted in Commercial bid.	List of important spare parts and accessories with their part number and costing must be sbumitted in commercial bid.			
iii	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.			
iv	Power-cord must be supplied with Indian Standard three pin Top.	Power-cord must be supplied with Indian Standard three pin Top.			
v	The company should mention the make & model name/number of the quoted equipment and submit the technical brochure of the quoted model in the Technical Bid along with compliance sheet as per technical specifications.	The company should mention the make & model name/number o the quoted equipment and submit the technical brochure of the quoted model in the Technical Bid along with compliance sheet as per technical specifications.			
vi	Scope of work must include delivery, Installation and demonstration of the complete system.	Scope of work must include delivery, Installtion and demostration of the comlete system.			
vii	Post Installation end user training is must and documented, which need to be submitted along with installation report.	Post Installation end user training is must and documented, which need to be submitted along with installation report.			
viii	Demo of the quoted model may be required if so desired by the user, after the opening of technical bid and prior to the opening of financial bid. This is for technical evaluation.	Demo of the quoted model may be required if so desired by the user, after the opening of technical bid and prior to the opening of financial bid.This is for the technical evaluation.			
ix	<i>Any Software or Hardware components required for basic functionality of the quoted featured which may be overlooked in the specification should be supplied by the vendor without any additional cost.</i>	Any Software or Hardware components required for basic functionality of the quoted featured which may be overlooked in the specification should be supplied by the vendor without any additional cost.			

