

TECHNICAL SPECIFICATION FORM (TSF)			
1	2	3	4
No.	ITEM CODE & DESCRIPTION	BIDDER'S OFFER	Ref. page no of Supporting Documents
	BOTM041		
	Endoscopy Coloumn with Bronchoscopy		
	Manufacturer:		
	Brand:		
	Type/Model:		
	Country of Origin:		
A	FUNCTIONAL DESCRIPTION		
1	High Definition VideoBronchoscope system, suitable for various types of		
B1	DESCRIPTION OF BASIC COMPONENTS		
1	Light Source VideoBronchoscope (compatible with HD system)		
2	High Definition Processor VideoBronchoscope		
3	HD Monitor		
4	Digital Recording System		
5	Printer		
6	Leakage Tester		
7	Manual Disinfector		
8	Suction Unit		
9	Trolley video Endoscopy and Bronchoscope		
10	Flexible Broncho Videoscope		
11	Cabinet Storage Endoscopy		
B2	TECHNICAL SPECIFICATIONS		
	Light Source VideoBronchoscope (compatible with HD system)		
1	To be compatible with HD system.		
2	XENON lamp of 300 W.		
3	Automatic and manual adjustment of the illumination		
4	Color temperature of approx. 6000K. Temperature should remain constant during the operation life of the lamp.		
5	Operation of the lamp for at least 300 hours. Life meter display.		
6	Easy replacement of the lamp without the use of instruments.		
7	The source should be compatible with endoscopes of various manufacturers		
8	Easy clean front control panel to meet all hygienic requirements.		
9	All the active functions should be illuminated		
10	Complete with suitable light cable		
	CAMERA		
11	Central unit for high definition digital image processing		
12	Color CCD chip high resolution.		
13	Simultaneous freeze function (a frozen image to be displayed simultaneously with the live image).		
14	Built-in system with special modes for optical enhancements to assist early detection of lesions, better identification and pit pattern classification.		
15	Built-in chromo-endoscopy system.		
16	Enhancement adjustments. White balance adjustment.		
17	Suitable for all kinds of GI, Colonoscope and Bronchoscopic applications		
18	The endoscopic image to fill the entire monitor		
19	HD Digital and analog outputs		
20	Capability for storage of the adjustments of different users		
21	To be delivered complete with all the necessary accessories (keyboard for patient data entry and cables)		
	HD MONITOR		
19	Full HD format, high resolution (Bidder to specify the resolution)		
20	At least 19" or higher medical grade monitor		
21	Image resolution of at least 1920 x 1080 pixels		
22	Menu of functions should be appeared on the screen		
23	The monitor should have input-output for analog and digital signals. Suitable for HD		
24	Connection with digital recorder and video printer should be possible		
25	Viewing angle approx. 89°/89°/89°/89° (up/down/left/right)		
26	Capability for zoom, underscan and Picture in Picture		
	DIGITAL RECORDING SYSTEM		
36	Medical grade system for the recording of video endoscopy procedures and images in digital media, according to the resolution of the camera (DVD or CD or USB e.t.c.).		
37	Suitable for the preparation of medical records with simple entry of all patient's data.		
38	Easy communication with hospital network		
39	Capability of accepting images from other imaging modalities		
40	Capacity at least 500 Gbytes		
41	Control via camera head buttons or footswitch		

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	PRINTER		
42	Digital Color printer		
43	Compatible with the endoscopy system		
44	Dye sublimation thermal transfer		
45	USB interface		
46	Supplied with CD-ROM, Printer Driver, Paper Tray, Stopper, Cleaning Cartridge, USB Cable		
	LEAKAGE TESTER		
47	Automated or Manual		
48	Less than 2 minutes for testing		
49	Compact size		
50	Number of scopes tested: 1 or 2 or more (Bidder to specify)		
51	Comes with self check function		
	MANUAL DISINFECTOR		
52	Manual disinfection for cleaning of flexible endoscopes		
53	Comes with instrument tray		
54	Comes with containers with lid		
55	Includes a trolley with castor wheels		
	SUCTION PUMP		
56	Designed for endoscopic aspiration		
57	Three pre-set speed settings (40l/min, 50l/min and 60l/min)		
58	Adjustable vacuum control		
59	Pressure gauge shall be available		
60	Supplied with suction jar of at least 2L capacity (reusable collection system starter kit)		
61	Quiet operation (less than 45dBA)		
	TROLLEY VIDEO BRONCHOSCOPE		
62	Trolley suitable to hold all the above mentioned apparatus for endoscopic procedures		
63	Made of alluminum or non corrosive materials.		
64	Integrated cable management system and built in power points		
65	Main power On-Off switch		
66	Should have castors with brakes		
	FLEXIBLE VIDEO BRONCHOSCOPE		
67	Broncho Videospoce x 1		
	* Depth of Field : 3 - 100 mm		
	* Image Quality : HDTV		
	* Distal and outer diameter : 5.5 mm		
	* Insertion tube outer diameter : 5.1 mm		
	* Working length : 600 mm		
68	Pleura Videoscope depth of fied 3 - 100 mm x 1		
	* Depth of Field : 3 - 100 mm		
	* Image Quality : HDTV		
	* Distal and outer diameter : 7.0 mm		
	* Insertion tube outer diameter : 7.0 mm		
	* Working length : 270 mm		
69	Broncho Videospoce x 1		
	* Depth of Field : 2 - 50 mm		
	* Image Quality : HDTV		
	* Distal and outer diameter : 3.1 mm		
	* Insertion tube outer diameter : 2.8 mm		
	* Working length : 600 mm		
	CABINET STORAGE ENDOSCOPY		

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70	Storage cabinet for endoscopes		
71	Shall have ventilation ports to assist drying		
72	Storage for at least 5 scopes		
73	Cabinet should come together:		
74	Scope Hangers		
75	Racks for forceps		
76	Drawers		
C	ACCESSORIES & CONSUMABLES		
1	All standard accessories required for the proposed model (including maintenance tools where applicable) as normally provided by the manufacturers (bidder to specify)		
2	Bidders shall specify, in a separate Excel worksheet , the quantity and details of any other essential items which have not been specified in this TSF, and to be included in		
3	All standard maintenance tools and cleaning /lubrication materials where applicable shall be included.		
4	Bidders shall specify, in a separate Excel worksheet , the quantity and details of any items included in this offer, which are normally provided by the manufacturer but not specified in this TSF.		
5	Standard accessories shall include the following, but not limited to:		
	a) Reporting management system		
	b) Standard fenestrated type		
	c) Cabinet storage Endoscopy		
	d) Fenestrated elipsoid type with needle		