

Amendment No. 1

Sub: Amendment to the referred tender enquiry

Ref.: Tender Enquiry HITES/PCD/PMSSY-III/27/CTVS/18-19 dated 10/04/2018

The following changes are being incorporated in the above referred Tender Enquiry Document.

**Section VII
Technical Specification**

**Schedule No. 01
IABP (Rfx no. 300002706)**

Tender Page & Para	TENDER SPECIFICATION	READ AS
4(4.4)	Reusable Invasive Blood pressure transducer system with pressure flush device system, transducer stand Qty: 2 Nos.	Invasive Blood pressure transducer system with pressure flush device system - 10Nos and transducer stand Qty: 2 Nos."
		Added Para: 3.20 : Should have the capability of in vivo calibration(Fiber Optic)
	BOQ	BOQ
6	Reusable Invasive Blood pressure transducer system with pressure flush device system - 2nos	Invasive Blood pressure transducer system with pressure flush device system - 10Nos Transducer stand Qty: 2 Nos

**Schedule No. 02
Heart Lung Machine (Rfx no. 300002707)**

Tender Page & Para	TENDER SPECIFICATION	READ AS
5	b. Ultrasonic Air Sensor(optional)	b. Ultrasonic Air Sensor
2.2	3. If available, quote for , Remote Control module for Temperature Control Monitor with Instrument tray and mounting arm separately (Quoted rate Will not be considered for comparison. Rate Justification for same needs to be provided with.)	3. Remote Control module for Temperature Control Monitor with Instrument tray and mounting arm separately"
3.1 (5)	Individual pump heads should have Harvey Roller pumps with facility for tubing to be used	"Individual pump heads should have Harvey Roller pumps with facility for tubing to be used

Tender Page & Para	TENDER SPECIFICATION	READ AS
	adjustable from ¼" to 5/8" through 3/8" and ½" by easily changeable mechanism.	adjustable from ¼" to 1/16" through 3/8" and ½" by easily changeable mechanism."
3.1 (10)	Should have variable, changeable tubing holders in each pump head: 1/4", 3/8", ½" and 5/8".	"Should have variable, changeable tubing holders in each pump head: 1/4", 3/8", ½" and 1/16" .
3.1(12)	Roller pump should have a self diagnostic circuit with provision to detect and display critical alarm conditions. Optional Pulsatile module which can be mounted on any of the blood pump.	"Roller pump should have a self diagnostic circuit with provision to detect and display critical alarm conditions. Pulsatile module which can be mounted on any of the blood pump. "
3.6 (4)	Temperature display range of 0- 50 ° Celsius; remote accuracy of 0.3 ° Celsius and remote temperature display unit module with 2 or more temperature display.	"Temperature display range of 0- 41 ° Celsius with high temp alarm/cutoff feature ; remote accuracy of 0.3 ° Celsius and remote temperature display unit module with 2 or more temperature display."
3.6(8)	Built in ice Maker to provide 50 lbs of ice in about 8 hours from 25° C water.	Deleted
3.6(13)	Optional remote control unit should be capable of taking 3 Temp. Probes and display temperature in digital readouts. Alarm limits setting for at least three probes at crucial sites.	"Remote control unit should be capable of taking 3 Temp. Probes and display temperature in digital readouts. Alarm limits setting for at least three probes at crucial sites"
3.7	PRESSURE MONITOR: Facility to monitor one arterial line pressure and one cardioplegia line pressures (total 2); along with necessary pressure transducers, cardioplegia line pressures (total 2); along with necessary pressure transducers, cables six (2 x 3 = 6) and domes reusable, with accurate digital display and alarm facilities audio and visual. delivery. With stop, reset and start function.	"PRESSURE MONITOR: Facility to monitor one arterial line pressure and one cardioplegia line pressures (total 2); along with necessary pressure transducers, cardioplegia line pressures (total 2); along with necessary pressure transducers, reusable cables six (2 x 3 = 6) and disposable domes - 10Nos , with accurate digital display and alarm facilities audio and visual. delivery. With stop, reset and start function.
3.11 (5&6)	ONLINE MEASUREMENT OF pH, pO2 & HB FOR CARDIAC SURGERY. Online Measurement of pCO2 facility and pCO2 blender if available quotes separately (Optional)	Para 3.11: 5: Compatible Co2 Blender should be supplied as standad"
BOQ 7	ON LINE MEASUREMENT OF pH, pO2 & HB FOR CARDIAC SURGERY	Deleted
BOQ 9	Online Measurement of pCO2 facility and pCO2 blender (Optional)	Deleted

Schedule No. 03
Battery Operated Sternum System (Rfx no. 300002708)

Tender Page & Para	TENDER SPECIFICATION	READ AS
1	d. Weight of handpiece with battery should be not more than 3.0 lbs	d. Weight of handpiece with battery should be not more than 3.5 lbs "
1	i. Should have tool lessmounting of accessories for all blades or attachments	Deleted
1	l. should have maximum speed of 13000CPM	l. should have maximum speed of 13000CPM or more
2	a. Should have two speed controls with standard and fast mode	"a. Should have two speed controls with standard and fast mode or pressure sensitive trigger for variable speed operation. "
2	c. Microprocessor controlled Hand Piece can be calibrate for the consistence Performance	Deleted
2	e. Weight of handpiece with battery should be not more than 3.0 lbs	"e. Weight of handpiece with battery should be not more than 3.5 lbs "
2	g. Should have tool lessmounting of accessories	Deleted
3	e. Should be able to check over autoclaved battery cycles(Number of Time and Total Time)	Deleted
3	f. Should have reconditioning futures for battery for N1cd battery	Deleted
3	h. Li-ion Cell chemistry and also compatible with NiMh & NiCd batteries with low Internal impedance to deliver higher current than other battery type.	Deleted
3	i. Should be 9.9volts with capacity of 2.2Ah	"i. Should be minimum 9.5volts with capacity of 2.2Ah
3	k. Li-ion cell with capacity to produce more torque and non autoclavable with life of 200approximate & average charging cycles	"k. Li-ion/ NiMH cell with capacity to produce more torque and non autoclavable with life of 200approximate & average charging cycles
3	m. Should be autoclavable batteries	Deleted
3	n. Noneed of reconditioned with no memory effect	Deleted
3	o. Should have Indicator light to inform user of low battery life	Deleted
3	p. Should have capability to regulates Voltage Prevents battery energy level from being drained below a safety threshold where cells could potentially be damaged	Deleted
3	q. Should have capability to measures and Stores AutoclaveAbuse	Deleted
3	r. Should have capability to safety features like	Deleted

Tender Page & Para	TENDER SPECIFICATION	READ AS
	Shuts off current to battery terminals when hand piece is not connected	

Schedule No. 06
Single Chamber Pacemaker

Tender Page & Para	TENDER SPECIFICATION	READ AS
-6	Should have an output amplitude 0.4 to 10 mv continuously adjustable	Amended as "Should have an output amplitude 0.4 to 10 mA continuously adjustable"

Schedule No. 09
Surgical loupes

Tender Page & Para	TENDER SPECIFICATION	READ AS
4	Light weight frame in Titanium, weighing not more than 90 gms.	"Light weight frame not more than 90 gms"

Schedule No. 10
Extra Corporeal Membrane Oxygenator (ECMO)(Rfx no. 300002715)

Tender Page & Para	TENDER SPECIFICATION	READ AS
B	Centrifugal Pump	Levitating Pump
A&B	Console with Centrifugal Pump:	"Console with Levitating Pump:
C.1	Certified for continuous use for more than 14 days	"Certified for continuous use for 14 days for Adlut and 28 days for peadiatics "
D(1)	Temperature setting range of water temperature should be 30 to 39 degree Centigrade with increments of 0.1 deg centigrade.	Temperature setting range of water temperature should be 35 to 39 degree Centigrade with increments of 0.1 deg centigrade.
E	IN LINE MEASUREMENT module OF PH, PCO2, PO2, electrolytes, lactate , HB and other calculated values	Deleted

F 6(e)	Catridge for inline ABG module (optional)	Deleted
BOQ(2)	Inline ABG measurement module as specified above 1 no (Optional)	Deleted
BOQ .7	Catridge for inline ABG module (optional)	Deleted

Schedule No. 12
Thoracic Videoscopy System (Rfx no. 3000002717)

Tender Page & Para	TENDER SPECIFICATION	READ AS
1	Description of Function	
1.1	A thoracoscope is a thin, tube-like semi rigid endoscope instrument with a light and a lens for viewing.	"A thoracoscope is a thin, tube-like rigid endoscope instrument with a light and a lens for viewing"
3.1	Technical Specifications Thoracovideoscope	
3.1 Para 2	Two-way or more angulation for complete examination	Deleted
3.1 Para 2	Built-in CCD chip for unprecedented image quality	"Built-in 3CCD chip for Full HD(1080p) image quality"
3.1 Para 5	Fully immersible in disinfectant solution, ETO sterilisable	"Fully immersible in disinfectant solution, ETO sterilisable and Autoclavable"
3.1 Para 7	Optical System- Field of view -90-100 degrees; Directional of view- 0 degree (forward viewing); Depth of field- 18 to 100 mm; Chip-1/4" CCD	"Optical System- Field of view 90-100 degrees or more; Directional of view- 30 degree (forward viewing); Depth of field- 18 to 100 mm; 3 Chip CCD FHD Camera"
3.1 Para 8	Insertion Portion- Distal end outer diameter <= 10 mm approximately; Rigid portion outer diameter-<= 10 mm approximately; Working Length-270-350 mm	"Rigid Scope Diameter 10 mm approximately; Working Length-270-350 mm"
3.1 Para 9	Bending Section- Angulation range- Up 100-110 degree; Down 100-110 degree. Additional angulation if any available pls specify and highlight	Deleted
3.2	Video processor with light source, Monitor and Recording system with capacity of 5TB	"FHD Video processor with light source, FHD Monitor and FHD Recording system with capacity 300GB minimum internal and 5TB Online External should be supplied as standard"
3.2	6. Operates on 300W Xenon lamp.	6. Operates on 300W Xenon lamp and One Spare bulbe should be supplied as standard"

3.2	9. Minimum 23" LCD/LED Medical Grade colour monitor with HD resolution	"9. Minimum 26" LCD/LED Medical Grade colour monitor with FHD resolution"
		Added Para: The system should be supplied with dedicated OEM trolley and suitable UPS as standard

All other contents of the tender enquiry including terms & conditions remain unaltered.

Note:

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**