

Dated 22nd February, 2018



GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

MINUTES OF MEETING

MINUTES OF PRE BID MEETING REGARDING PURCHASE OF
MACHINERY & EQUIPMENT THROUGH ADP SCHEME “
STRENGTHENING & IMPROVEMENT OF JPMC, KARACHI” FOR
FY 2017-18

(List of participants is enclosed herewith)

A Pre bid meeting for procurement of Machinery & Equipment ADP Scheme “Strengthening & Improvement of JPMC, Karachi” was held on 21st February 2018 at 9:00 a.m in the Auditorium-B, JPMC – Karachi.

The following companies have attended the meeting:-

1. M/s. Shah Co Medical
2. M/s. Shirazi Trading
3. M/s. Jaffery Medical
4. M/s. BIOS
5. M/s. Security & Communications
6. M/s. Noor International
7. M/s. Tayyab Ali Technology

During the meeting vendors discussed the tender specifications and pointed out some minor observations in specifications. Following vendors have submitted their observations and proposals for amendments in the specifications. The rest of vendors were satisfied with required tender specifications.:

1. M/s. Shah Co Medical.
2. M/s. Noor International
3. M/s. Shirazi Trading Co. (Pvt)Ltd
4. M/s. BIOS
5. M/s. Tayyab Ali Technology
6. M/s Jaffery Medical (has stated that he has no objection of tender specification)
7. M/s Security & Communication (has stated that he has no objections)

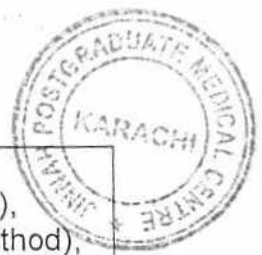
The technical committee / procurement committee reviewed the observations submitted by vendors and keeping in view of available resources, the necessary modifications in specifications amended as under:-



Tender Item No.	Tender Specification	Modified Specification
1	ICU Ventilator (Neonatal to Adult)	ICU Ventilator (Paeds to Adult)
	Make>>	Make>>
	Model>>	Model>>
	Sole Agent In Pakistan>>	Sole Agent In Pakistan>>
	Ventilation Modes:	Ventilation Modes:
	(S)CMV+/APVcmv, PCV+ (biphasic), SIMV+/APVsimv, SPONT, P- SIMV+, NIV, NIV-ST, DuoPAP and APRV, close loop ventilation mode	(S)CMV+/APVcmv, PCV+ (biphasic), SIMV+/APVsimv, SPONT, P- SIMV+, NIV, NIV-ST, DuoPAP and APRV, close loop ventilation mode
	Patient Type	Patient Type
	Should include Peads & Adult	Should include Peads & Adult
	Tidal volume starting from 20 ml up to at least 2000 ml	Tidal volume starting from 20 ml up to at least 2000 ml
	PEEP and CPAP ranges from 0 cmH2O not less than 35 cm H2O	PEEP and CPAP ranges from 0 cmH2O not less than 35 cm H2O
	Storage and display of not less than 1000 events with date and time	Storage and display of not less than 1000 events with date and time
	Should show real time visualization of the lungs with representations of tidal volume, lung compliance, resistance and patient activity	Should show real time visualization of the lungs with representations of tidal volume, lung compliance, resistance and patient activity
	Should show Visual representation of the ventilator dependency	Should show Visual representation of the ventilator dependency
	Automatic Mode should be available.	Automatic Mode should be available.
	Should have battery back of 2hours for complete system i-e with turbine or compressor	Should have battery back of 2hours for complete system i-e with turbine or compressor
	Should have display of 12" LCD touch screen. Supply Voltages 220-240 AC.	Should have display of 12" LCD touch screen. Supply Voltages 220-240 AC.
	No Requirement of Central Air.	Deleted
	Can also be operated on Low Flow oxygen.	Can also be operated on Low Flow oxygen.
	Can be upgradable to the ETCO2 Monitoring and High Flow Oxygen Therapy in future. (Should be quoted separately)	Can be upgradable to the ETCO2 Monitoring and High Flow Oxygen Therapy in future. (Should be quoted separately)
	To be supplied with :	To be supplied with :
	Disposable patient breathing	Disposable patient breathing



	circuits for Adult and paed supporting arm and original trolley	circuits for Adult and paed supporting arm and original trolley
	or equivalent	or equivalent
	Origin: EEC, USA, JAPAN	Origin: EEC, USA, JAPAN
2	BEDSIDE MONITOR	BEDSIDE MONITOR
	Make>>	Make>>
	Model>>	Model>>
	Sole Agent In Pakistan>>	Sole Agent In Pakistan>>
	SPECIFICATION	SPECIFICATION
	The monitor should have a high resolution, with a display of atleast 12 inch and touch panel screen. Display at least 6 waveforms.	The monitor should have a high resolution, with a display of atleast 12 inch and touch panel screen. Display at least 6 waveforms.
	Should have a function of onscreen guide and with helpful illustrations.	Should have a function of onscreen guide and with helpful illustrations.
	Should have enlarged numeric screen for viewing from distance.	Should have enlarged numeric screen for viewing from distance.
	Should have Alarm indicator.	Should have Alarm indicator.
	Should have Arrhythmia detection with 120 hours of recall data can be saved.	Should have Arrhythmia detection with 120 hours of recall data can be saved.
	Should have 7 lead ECG simultaneous display using 5 electrodes.	Should have 7 lead ECG simultaneous display using 5 electrodes.
	Should have up to 120 hours files for the numeric data of alarm occurrences from the alarm history table.	Should have up to 120 hours files for the numeric data of alarm occurrences from the alarm history table.
	Should have Up to 120 hours ECG full disclosure waveform displayed.	Should have Up to 120 hours ECG full disclosure waveform displayed.
	Should have 120 hours of trendgraphs of all Parameters.	Should have 120 hours of trendgraphs of all Parameters.
	Should have 6 hours battery operation time.	Should have 6 hours battery operation time.
	Should have HL7 protocol for data output.	Should have HL7 protocol for data output.
	Should have a capability to exchange and view data of other bedside monitors without a need of the central monitor. Both individual display and 8 beds display should be available.	Should have a capability to exchange and view data of other bedside monitors without a need of the central monitor. Both individual display and 8 beds display should be available.



	Should have 7 Measuring Parameters ECG (3/5 lead), respiration (impedance method), SpO2, NIBP, temperature (2ch). 2xIBP and ETCO2 main stream	Should have 7 Measuring Parameters ECG (3/5 lead), respiration (impedance method), SpO2, NIBP, temperature (2ch). 2xIBP and ETCO2 main stream
	Displayed waveforms should be ECG (maximum 7 traces), respiration, NIBP, SpO2 pulse wave, IBP and ETCO2	Displayed waveforms should be ECG (maximum 7 traces), respiration, NIBP, SpO2 pulse wave, IBP and ETCO2
	Numerical data display should be HR, VPC, ST, RR, NIBP (systolic, diastolic, MAP), SpO2, PR, PI, TEMP, FiCo2, ETCO2 and IBP	Numerical data display should be HR, VPC, ST, RR, NIBP (systolic, diastolic, MAP), SpO2, PR, PI, TEMP, FiCo2, ETCO2 and IBP
	Supplied with: ECG 3 leads, NIBP hose and cuff, SPO2 probe, 2xIBP cables and ETCO2 module, 2 temperature probes and power cord.	Supplied with: ECG 3 leads, NIBP hose and cuff, SPO2 probe, 2xIBP cables and ETCO2 module, 2 temperature probes and power cord.
	or equivalent	or equivalent
	Country of origin: Japan, USA, UK, China	Country of origin: Japan, USA, UK, China
		Quality Standard FDA 510K and CE marked
14	Digital Mammography Machine 3D Digital Breast Tomosynthesis	Digital Mammography Machine 3D Digital Breast Tomosynthesis
	Make>>	Make>>
	Model>>	Model>>
	Sole Agent In Pakistan>>	Sole Agent In Pakistan>>
	X-ray Generator	X-ray Generator
	Out put 3 kW or more	Out put 3 kW or more
	Anode voltage 22-33kVp	Anode voltage 22-33kVp
	Exposure time : 5-9 sec or better	Exposure time : 5-12 sec or better
	mAs range : 500mAs or more	mAs range : 500mAs or more
	Automatic line voltage compensation	Automatic line voltage compensation
	Anode current for small focus : 40mA or more , large focus 100mA or more	Anode current for small focus : 40mA or more , large focus 100mA or better
	Full field AEC for entire detector area	Full field AEC for entire detector area
	x-ray tube	x-ray tube
	High speed rotating anode , biangular x-ray tube	High speed rotating anode , biangular x-ray tube
	Focal spot 0.1/0.3 or better	Focal spot 0.1/0.3 or better



x-ray tube Heat capacity: 300KHU or more	x-ray tube Heat capacity: 300KHU or more
Motorized filter dual with automatic change	Motorized filter dual with automatic change
Digital Image Receptor	Digital Image Receptor
Full Field Digital Detector	Full Field Digital Detector
Image Receptor Size: Single plate 24 cm x 29 cm	Image Receptor Size: Single plate 24 cm x 29 cm
Amorphous silicon with direct deposit Csi scintillator	Amorphous silicon/selenium with direct deposit Csi scintillator
Pixel size 100 µm or better	Pixel size 100 µm or better
Pixel matrix : 2,800 x 3,500 or better a/	Pixel matrix : 2,800 x 2,300 or better a/
A/D conversion : 14 bit or more	A/D conversion : 14 bit or more
Gentry Mechanics	Gentry Mechanics
Vertical travel motorized	Vertical travel motorized
Mortised beam collimation	Mortised beam collimation
Continuously and automatically adjustable radiation field.	Continuously and automatically adjustable radiation field.
Easy to operate control Panel from left/right/both sides	Easy to operate control Panel from left/right/both sides
Rotation : +180° to -140°	Rotation : +180° to -140°
Source-Image Distance (SID) : 65cm or more	Source-Image Distance (SID) : 65cm or more
Chin guard /face shield	Chin guard /face shield
Compression	Compression
Modes of Operation: user selectable	Modes of Operation: user selectable
Compress release after exposure : Manual or automatic	Compress release after exposure : Manual or automatic
Paddle function with lock mechanism	Paddle function Manual or automatic
Fine tuning of compression adjustment with foot control	Fine tuning of compression adjustment with foot control
Bucky	Bucky
Light weight compact bucky	Light weight compact bucky
Microprocessor control grid movement	Microprocessor control grid movement
Grid ratio: 5:1, 30l/cm	Grid ratio: 5:1, 30l/cm or better
Detector area 23x29cm or better	Detector area 23x29cm or better
Magnification	Magnification
1.5x, 1.8x magnification factors	1.5x, 1.8x magnification factors
Acquisition work station	Acquisition work station

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High performance DBT acquisition workstation	High performance DBT acquisition workstation
3D reconstruction and image post processing	3D reconstruction and image post processing
Multi core CPU	Multi core CPU
64GB RAM	64GB RAM
Hard drive 1T or more	Hard drive 1T or more
Key board and mouse	Key board and mouse
64 bit Microsoft windows 7 or equivalent	64 bit Microsoft windows 7 or equivalent
High resolution 3MP color TFT LED display	High resolution 3MP color TFT LED display Medical Grade
DICOM 3.0 with DICOM Print, storage, query, retrieve, worklist	DICOM 3.0 with DICOM Print, storage, query, retrieve, worklist
Isolation transformer	Isolation transformer
Review station	Review station
2 nos. high-resolution displays	2 nos. high-resolution displays
5MP or more	5MP or more
Customizable workflow	Customizable workflow
softcopy reading tools	softcopy reading tools
Hard ware: Multi-core CPU	Hard ware: Multi-core CPU
Dual,1TB harddrives, 8 GB RAM	Dual,1TB harddrives, 8 GB RAM
DVD recorder	DVD recorder
Keyboard/mouse	Keyboard/mouse
Digital Breast Tomosynthesis DBT	Digital Breast Tomosynthesis DBT
3D Tomosynthesis imaging sequence	3D Tomosynthesis imaging sequence
Tomo angle range 30° (+/- 15°)	Tomo angle range 25° or more (+/- 15°)
Projection images 15 or more	Projection images 9 or more
Standard accessories	Standard accessories
Set of flexible and slid able compression paddles, large paddle 24 x 30cm, small 19 x 23 cm , tomosynthesis paddle 24 x 30cm , magnification spot 10 x 10cm	Set of flexible and slid able compression paddles, large paddle 24 x 29cm, small 19 x 23 cm , tomosynthesis paddle 24 x 29cm , magnification spot 10 x 10cm
Geomatic magnification	Geomatic magnification
Foot paddle	Foot paddle
x-ray shield	x-ray shield
2 nos. lead apron and gloves	2 nos. lead apron and gloves

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	DICOM compatible printer	DICOM compatible printer
	Compatible UPS	Compatible UPS
	Digital stereotactic system 2D/3D for biopsy should be quoted	Digital stereotactic system 2D/3D for biopsy should be quoted
	Warranty : three years comprehensive warranty including x-ray tube and image receptor	Warranty : three years comprehensive warranty including x-ray tube and image receptor
	Quality certification : CE / FDA or equivalent	Quality certification : CE / FDA or equivalent
	Country of origin : USA/UK/Japan/Europe	Country of origin : USA/UK/Japan/Europe

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