



Patients' Aid Foundation (PAF)
Jinnah Postgraduate Medical Centre (JPMC)
Karachi.

TENDER FOR

Provision of Supply, Installation and Commissioning of Equipment for Surgical Complex, JPMC- Karachi

Tender No: I- Modular Operation Theatres

BID EVALUATION REPORT

Method of Procurement	Single Stage Two Envelope
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1. Tender was advertised on **2nd April 2022**
2. Pre bid meeting was held on **9th April 2022**, to have input of bidders & following bidders participated in the meeting.
 - a. M/s Total Technologies
 - b. M/s BIOS
 - c. M/s Biotech Pakistan
 - d. M/s Allmed Solutions

M/s Allmed Solutions requested to remove the word Western Europe which was not entertained to get the best quality products.

3. The following companies participated in the tender.
 - a. M/s Total Technologies
 - b. M/s BIOS
 - c. M/s Biotech Pakistan
4. Technical bid was opened on **7th May 2022** and evaluated by technical sub-committee comprising of, **Prof. Tariq Mahmood** Head of Radiology, Oncology & Cyberknife & Secretary Supervisory Committee, Surgical Complex, JPMC, Karachi, **Dr. Abdul Jabbar Memon** Additional Secretary Projects & Development, Government of Sindh, Karachi, and **Prof. Iqbal Khan** Professor of Surgery, JPMC.

i. M/s Total Technologies	Technically approved
ii. M/s BIOS	Technically approved
iii. M/s Biotech Pakistan	Not approved on the basis of below mentioned reasons.

After the pre-bid meeting various changes in technical specifications were requested by M/s Biotech via e-mail. All suggestions/requests of M/s Biotech were entertained in technical specifications to have a broad based competition. No objection was raised by M/s Biotech on country of origin/Western Europe.

After technical opening several discrepancies were observed in the technical bid of M/s Biotech Pakistan which include, Integrated OR data management system made in Slovenia, country of origin of several items was not mentioned, apart from this representative of M/s Biotech was unable to verify items mentioned on the bid from the technical datasheets attached with the bid.

Moreover, M/s Biotech has also violated tender regulations by sending a financial proposal via e-mail to Chairman PAF.

M/s Biotech Pakistan has also been blacklisted for Modular OT by PPRA.

Blacklisting was also published in Daily Dawn newspaper 30th July 2022.

Based on above stated major observations M/s Biotech Pakistan was technically disqualified in above stated tender.

[Signature]

[Signature]

Chairman
Supervisory Committee
Surgical Complex, JPMC Karachi

Professor Sughra Parveez
MBBS, FCPS, FRCS
Head of Department
Surgical Unit-1, Ward-3
J.P.M.C. Karachi

Page | 1

[Signature]

Prof. M. NADEEM MUNEER
MBBS, FCPS
Head of Department
Deptt. Of Anaesthesiology & SICU
J.P.M.C. Karachi

[Signature]
Prof. Dr. AMIAD SIRAJ-MEMON
Vice-Chancellor
Jinnah Sindh Medical University, K.

5. Financial bids were opened on 15th August 2022.

Details of the Bid Security submitted by qualified / responsive bidders is mentioned here under:

No.	Bidder Name	Bid Security Submitted	Bank Instrument No. & Date	Bank Particulars	Status
1	M/s. Total Technology	Rs. 9,000,000	Rs. 7,500,000 00478704 Rs. 1,500,000 1792168	Bank Al Habib Ltd MCB	Qualified for Financial Evaluation.
2	M/s. BIOS	Rs. 6,400,000	1081011428	Al Baraka Bank Ltd	Qualified for Financial Evaluation.

Financial Proposals

Description of Goods	Qty	Bidder Name	Brand	Make	Currency	Total Price	Remarks
High End Modular Operation Theaters OT-10 : 17'.6" x 23'.6" OT-12 : 28'.9" x 18' OT-13 : 28'.9" x 18' OT-14 : 19' x 24'.6" OT-17 : 19' x 24'	Nine	M/s. Total Technology	Operamed	Italy	Euro.	1,909,486/-	Actual Bid price: 1,890,000/- + Cost of scrub units 6,495.40 x 3 19,486/-
High End Modular Operation Theaters with Integration & Data Management OT-11 : 28'.9" x 21'.6" OT-15 : 25'.3" x 24'.6" OT-16 : 25'.3" x 24'.6" OT-18 : 20'.9" x 24'		M/s. BIOS	Nexor	Germany	Euro.	1,464,196/-	Lowest evaluated bidder

Lowest evaluated bidder M/s BIOS is approved.

Submitted for review and approval of Honourable Members for the hoisting on the websites of Patients' Aid Foundation & Jinnah Postgraduate Medical Centre, Karachi.

Prof. Tariq Mahmood (T-1)
Head of Radiology, Oncology & Cyberknife
Secretary Supervisory Committee,
Surgical Complex, JPMC, Karachi.

**Secretary
Supervisory Committee
Surgical Complex, JPMC Karachi**

Prof. M. NADEEM MUNEER
MBBS, FCPS
Head of Department
Dept. Of Anaesthesiology & SICU
J.P.M.C., Karachi

PROF. DR. AMJAD SIRAJ MEMON
Vice Chancellor
Jinnah Sindh Medical University, Karachi

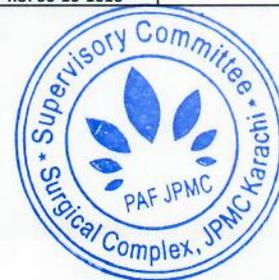
**Chairman
Supervisory Committee
Surgical Complex, JPMC Karachi**



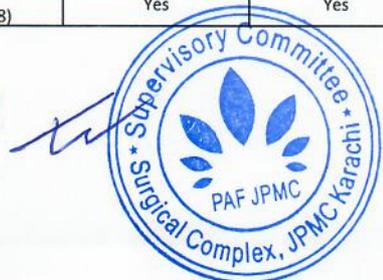
Technical Specification Evaluation				
S.No.	MODULAR OPERATION THEATRE : SCOPE OF WORK INCLUDES THE DESIGNING, SUPPLY, INSTALLATION AND COMMISSIONING	M/s. Total Technology	M/s. BIOS	M/s. Biotech Pakistan
A				
	Western Europe Countries: Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands and Switzerland.	Yes	Yes	Yes
	Eastern/Central Europe Countries: Albania, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Hungary, Latvia, Lithuania, Montenegro, North Macedonia, Poland, Republic of Moldova, Romania, Serbia, Slovakia, Slovenia	No	No	Yes (Control Panel from Slovenia)
	Brand	Opera Med	Nexor	MAQUET
	Origin	Italy	Germany	Germany
	HIGH END MODULAR OPERATION THEATRE	Yes	Yes	Yes
	OT-10 : 17'.6" x 23'.6"	Yes	Yes	Yes
	OT-12 : 28'.9" x 18'	Yes	Yes	Yes
	OT-13 : 28'.9" x 18'	Yes	Yes	Yes
	OT-14 : 19' x 24'.6"	Yes	Yes	Yes
	OT-17 : 19' x 24'	Yes	Yes	Yes
1.0	FREE-STANDING STRUCTURE FOR WALL AND WALL CALDDING	TrueSpace Sub-Structure (Page No: 50-51)	NEXOR.suite /Article no: 60-10-1100	Maquet Variop
	Brand	Opra Med	Nexor	GETINGE
	Origin	Italy	Germany	Germany
	Quantity	for 9 OR	for 9 OR	for 9 OR
1.1	Free standing structure should make up of vertical posts placed at modular center distances sliding on upper and lower tracks or equivalent.	Yes (Page No: 50,51)	Yes (Page:115)	Yes (Page:388,389)
1.2	Vertical supporting element should made of galvanized steel preferably without screw, spot welding etc and must be with complete accessories.	Yes (Page No: 51)	Yes (Page:115)	Yes (Page:389)
1.3	Vertical posts should also include Screw/Screwless adjustable feet and spring clamps to choose adjustments or connector with the upper stiffening profile in order to salvage imperfections or slopes of concrete screed up to 20 mm and for precise installation of panels.	Yes (Page No: 51)	Yes (Page:115)	Yes (Page:388)
1.4	For cables and technological utilities passing, the structure between the corner posts galvanized steel sheet should have intermediate cross girders of 0.8mm thickness.	Yes (Page No: 51)	Yes (Page:115)	Yes (Page:392)
1.5	On the floor structured 15/10 mm thick steel sheet tracks should be placed equipped with ad-hoc pins to install supporting corner posts.	Yes (Page No: 51)	Yes (Page:115)	Yes (Page:392) instead 388
1.6	The tracks should have holes for electrical systems telephone utilities data and technological installations.	Yes (Page No: 51)	Yes (Page:115)	Yes (Page:388 to 395)
1.7	The track should have cove base design for connection between floor and wall panel.	Yes (Page No: 51)	Yes (Page:137)	Yes (Page:388 to 395)
1.8	Next to the set height of the false ceiling an extrusion complete with sealed connecting gaskets should be positioned between the wall and the false ceiling allowing the ceiling and wall to be disassembled independently.	Yes (Page No: 51)	Yes (Page:115)	Yes (Page:388 to 395)
2.0	WALL PANEL STAINLESS STEEL	TrueSpace Modular Wall Panels	NEXOR.suite/ Article no: 60-10-2165	VARIOP
	Brand	Opera Med	Nexor	GETINGE
	Origin	Italy	Germany	Germany
	Quantity	for 9 OR	for 9 OR	for 9 OR
2.1	SSI sheet standard thickness 10/10 mm with rounded edges for the coupling with the track hooks on the corner posts of the supporting structure.	Yes (Page No: 52)	Yes (Page:116)	Yes (Page:219)
2.2	The shells should be internally plated with fire-retardant plasterboards 12.5 mm thick	Yes (Page No: 52)	Yes (Page:116)	Yes
2.3	The low carbon cold-rolled nickel-chrome steel finishing, 10/10 thick should covered by a layer of "TGIC FREE" powder paint suitable for electrostatic application, thickness 10micron, designed to have an antibacterial film according to international standard.	Yes (Page No: 52)	Yes (Page:116)	Yes (Page:222)
2.4	Cladding panels must be connected to the substructure screw-less/screw based. Panels must be single piece floor ceiling height/three pieces – No horizontal joints are allowed.	Yes (Page No: 52)	Yes (Page:116)	Yes (Page:388 to 395)
2.5	Gloss 30 non-glare smooth surface Reaction to fire class Bs1-do, based on European directive 98/48/EC in compliance with standard EN 13501-1:2009	Yes (Page No: 53)	Yes (Page:116)	Yes (Page:219)
2.6	ART-WORK - DECORATIVE PRINTING ON SOLID WALL PANEL or ART-WORK. Decorative element printed HD image full height. Image selected by customer (min 6sqm per room)	Yes	Yes (as per requirement)	Yes (Page:218,219)
3.0	GLASS WALL PANEL FOR OTS	Deleted from Tender		
4.0	FALSE CEILING (600 x 600)	TrueSpace Ceiling	NEXOR.suite /Article no: 60-10-1010	







	Brand	Operamed	Nexor	Atenlux
	Origin	Italy	Germany	Italy
	Quantity	for 9 OR	for 9 OR	for 9 OR
4.1	False ceiling should be in white painted steel module 600x600 mm with hidden supporting structure and complete with sealed perimeter profile.	Yes (Page No: 34)	Yes (Page:117,143)	Yes (Page:227 to 235)
4.2	False ceiling Clip-in System with panels format mm. 600 x 600 in electrogalvanized steel thickness mm. 0.5 boxed on four sides with sharp edges properly levelled before stamping with non-punched smooth surface.	Yes (Page No: 34,35)	Yes (Page: 74-B,143)	Yes (Page:227 to 235)
4.3	Epoxy powder painting cycle in RAL 9010 white colour with 70-80 micron of paint thickness.	Yes (Page No: 35)	Yes (Page: 74-B,143)	Yes (Page:227 to 235)
4.4	Reflected light should be calculated with an impact angle of 60 degrees with RAL 9010 colour reference , approximately 22% according to "Gardner" and "DIN 67530 standards.	Yes (Page No: 35)	Yes (Page:143)	Yes (Page:227 to 235)
4.5	Single-adhesive seal in neoprene to be attached to one of the internal ribs of the panel to protect underlying locations from dust.	Yes (Page No: 35)	Yes (Page:143)	Yes (Page:227 to 235)
4.6	Cross supporting structure should made up of primary warping in "U" shaped profiles arranged with centre distance of mm. 1700 and secondary profiles arranged with centre distance of mm. 600 including all connection accessories.	Yes (Page No: 35)	Yes (Page:143)	Yes (Page:227 to 235)
4.7	Adjustable stiff suspension system in "M6" threaded rods fixed to the slabs with centre distance of mm. 1200 and with proper plugs.	Yes (Page No: 35)	Yes (Page:143)	Yes (Page:227 to 235)
5.0	ANGULAR EXTRACTION WALL ELEMENT WITH AIR GRIDS	Air Intake Modules	NEXOR.suite /Article no: 60-20-4010	Not mentioned
	Brand	Operamed	Nexor	Not mentioned
	Origin	Italy	Germany	Not mentioned
	Quantity	36 nos.	18 nos.	9 nos.
5.1	Angular air intake element should made of 135° partition element with the same finish of the wall panels.	Yes (Page No: 56,57 45 & 135 are equal for angular space)	Yes (Page: 118,140)	Yes (Page:392)
5.2	Should include air grids of Dim standard 400x400 included the cut outs and wall panels reinforcements - correct air extraction grids as per appointed MEP engineer's recommendation, including galvanized steel air duct dim. 470 x 300mm fully accessible with upper circular connection diam.150mm	Yes (Page No: 56)	Yes (Page: 118)	Yes (Page:392)
6.0	HOMOGENOUS CONDUCTIVE DISSIPATIVE FLOORING	Primo SD	NEXOR.suite /Article no: 60-70-2201	Yes
	Brand	Gerflor, Tarkett / Operamed*	Tarkett /Nexor	Polyflor
	Origin	France	Germany	UK
	Quantity	for 9 OR	for 9 OR	for 9 OR
6.1	Conductive dissipative PVC in reel 2 mm thick Electroconductive homogeneous rolling-press finished PVC.	Yes (Page No: 110)	Yes (Page: 119)	Yes (Page:237 to 243)
6.2	The grounding connection shall be made through a copper slat positioned 20cm from the shorter wall and in case of laying of the rolls in diagonal direction from the laying direction every 20m.	Yes (Page No: 110)	Yes (at the time of installation)	Yes (Additional documents submitted)
6.3	High resistant to intense traffic non porous and sealed with pure Polyurethane.	Yes (Page No: 110)	Yes (Page: 119)	Yes (Additional documents submitted)
6.4	Floor should be renewable through dry polishing.	Yes (Page No: 110)	Yes (Page:119)	Yes (Additional documents submitted)
6.5	Fabric should be heat-welded with the PVC kerb of the same quality and colour in order to obtain a monolithic surface including wall side and perfectly water-proof	Yes (Page No: 110)	Yes (at the time of installation)	Yes (Additional documents submitted)
7.0	LAMINAR FLOW SYSTEM	LF-ZP 2.5 x 3.0 m Eccoline	Biovax 3/ Article no: 60-60-3116	Yes
	Brand	Marchhart	France Air/Nexor	Weiss Technik
	Origin	Austria	Germany	Germany
	Quantity	9 nos.	9 nos.	9 nos.
7.1	DIM (AxBxH) 2500x3000x450	Yes (Page No: 68)	2500x3000 (Page: 111-120)	Yes (Page:392)
7.2	Modular units for filter ceilings with vertical laminar flow.	Yes (Page No: 68)	Yes (Page:120)	Yes (Page:252)
7.3	Filter ceiling equipped with an anti-induction screen for ISO 7- ISO 5 operating theatres. Unidirectional flow filter ceiling enabling achievement of class ISO 5 (as per EN ISO 14644-1) in the at-risk area, at the required air renewal rate (risk 4 as per NFS 90-351)	Yes (Page No: 68)	Yes (Page: 110-B,120,143)	Yes (Page:253)
7.4	Air terminal diffusion with absolute filters - HEPA filters certified set H14 sealed with room-side installation	Yes (Page No: 68)	Yes (Page: 120)	Yes (Page:253)
7.5	CONSTRUCTION	Yes (Page No: 68)	Yes	Yes



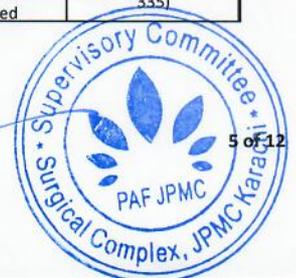
7.6	Mono-block diffuser ceiling for hospital operating theatres. It comprises stainless steel or painted steel plenum, as well as a set of H14 HEPA (high-efficiency particulate air) filter, combined with unidirectional flow over the operating area. Centralized opening for surgical light installation which, for special execution, can be designed in customized position projects	Yes (Page No: 68)	Yes (at the time of installation)	Yes (Page:252)
7.7	Side air inlet consisting of a rigid sleeve (height 200 mm - depth 150 mm)	Yes (Page No: 68)	Yes (at the time of installation)	Yes (Page:252)
8.0	AUTOMATIC SLIDING DOOR	Ditech Valor HH	NEXOR.suite /Article no: 60-50-1150_60-50-5010	
	Brand	Operamed	Nexor	Not mentioned
	Origin	Italy	Germany	Not mentioned
	Quantity	9 nos.	9 nos.	9 nos.
8.1	Automatic sliding door should be of not less than 45mm thick with external handles including programmer safety sensors elbow-operated buttons - h=2200 - HPL or ANTIBACTERIAL GALVANISED STEEL DOOR with aluminum profile.	Yes (Page No: 31 Door Leaf Option)	Yes (Page:121)	1500 x 2100mm (Page:270)
8.2	Door panel should consist of internal fire retardant MDF and solid wood frame with a layer of self-extinguishing polystyrene plate covered with laminate or antibacterial galvanized sheet steel. Color choice should be available.	Yes (Page No: 31)	Yes (Page:121)	Yes (Page:267,270)
8.3	Frame should be made of extruded aluminum profile with a sealing gasket.	Yes (Page No: 31)	Yes (Page:121)	Yes (Page:270)
8.4	Handle should be on the outer side.	Yes (Page No: 31)	Yes (Page:121)	Yes (Page:270)
8.5	Automatic sliding system constituted by automatism for sliding door fixed on anti-noise rubber profile sliding track aluminum motion transmission system with antistatic reinforced belt double unit of cart wheel 230V power supply protected against short circuit with DC motor high performance and low electrical consumption.	Yes (Page No: 31)	Yes (Page:121)	Yes (Page:270)
8.6	Electronics controls should be with simple set-up and self-diagnosis for the detection of possible errors.	Yes (Page No: 33)	Yes (Page:121)	Yes (Page:270)
8.7	Adjustable door open time opening and closing speed panic emergency opening function with emergency battery monitored electric lock management function safety sensors.	Yes (Page No: 33)	Yes (Page:121)	Yes (Page:270)
8.8	The sliding motor unit and all electronics should be protected by an aluminum cover. AUTOMATIC SLIDING DOOR dims: L=1500 , DOOR SEE-THROUGH WINDOW 350X700 flush mounted both sides	Yes (Page No: 33)	Yes (Page: 121,142)	Yes (Page:270)
9.0	HINGED/SWINGE DOOR	Yes	NEXOR.suite /Article no: 60-50-1150_60-50-5010	Yes (Hinged Doors)
	Brand	Operamed	Nexor	
	Origin	Italy	Germany	
	Quantity	19 nos.	9 nos.	12 nos.
9.1	Internal door made of aluminium and plastic coated steel.	Yes (Page No: 31,32,33)	Yes (Page: 122)	Yes (Page:276)
9.2	Frame: Shaped split frame in anodised aluminium,17/10 mm thick	Yes (Page No: 31,32,33)	Yes (Page: 122)	Yes (Page:276)
9.3	Door leaf built with galvanised sheet, 6/10 mm thick, plastic-coated, RAL colour, covered with a removable transparent film	Yes (Page No: 32,33)	Yes (Page: 122)	Yes (Page:276)
9.4	The inner insulant should made of narrow-celled honeycomb cardboard forming a single monolithic block with the outer sheets , hot press-bonding system (90 °C) and the use of thermosetting adhesives	Yes (Page No: 32,33)	Yes (Page: 122)	Yes (Page:276)
9.5	Leaf 40 mm thick	Yes (Page No: 32,33)	Yes (Page: 122)	Yes (Page:276)
9.6	leaf should be rounded profiles on the four sides	Yes (Page No: 32,33)	Yes (Page: 122)	Yes (Page:276)
9.7	Lock with latch bolt, complete with a cylinder with three keys of the Yale type. Handle: Silver coloured door aluminium handle	Yes (Page No: 32,33)	Yes (Page: 122)	Yes (Page:276)
9.8	Doors should be with door closer	Yes (Page No: 32,33)	Yes (Page: 122)	Yes (Page:276)
9.9	HINGED DOORS - Single door 900 - 1050 h=2180	Yes (Page No: 32,33)	Yes (Page: 74)	Yes (Page:276)
10.0	SWING DOOR DOUBLE LEAF	NOT OFFERED		
11.0	LED CLEANROOM LUMINAIRES	TrueSpace Room LC lighting	840 LED Panel/ Article no: 60-60-2060	Yes
	Brand	Operamed	Disano	Atenalux
	Origin	Italy	Italy	Italy
	Quantity	90 nos. (10 in each OR)	108 nos. (12 in each OR)	72 nos. (08 in each OR)
11.1	LED Cleanroom luminaires for general illumination built into the air tight false ceiling system. Size: 600 x 600	Yes (Page No: 38)	Yes (Page:123)	Yes (Page:296,297)



11.2	Luminaire housing should be made of steel sheet white antistatic coated should be resistant to oil vapors chemical influences Disinfectants and cleaning agents.	Yes (Page No: 38, 39)	Yes (Page:123)	Yes (Page:296,297)
11.3	The luminaire should be designed to the good energy saving panel with 100lm/w 65000 hours long life and 90% uniformity across the emitting surface.	50,000 hours (Page No: 38,39)	Yes 65,000 hours (Page:123)	Yes 50,000 hours (Page:296,297)
11.4	Luminaire should be individually dimmable and emergency light.	Yes (Page No: 39)	Yes (Page:123)	Yes (Page:296,297)
11.5	Each individual lamp should be wired ready for connection Protection class IP65. e trade.	Yes (Page No: 39)	Yes (Page:123)	Yes (Page:296,297)
11.6	Nominal power 50watt CCT 4200- Lumen Output(lm) 4880	66watt (Page No: 39)	50 watt (Page:123)	Yes (Page:296,297)
11.7	Lumen Efficacy(LPS) 100 - CRI/SDCM Ra>85-IP65	Yes (Page No: 39)	Yes (Page:123)	Yes (Page:296,297)
12.0	GLASS-MONITOR - GLAZED MODULE up to 49-inch monitor	49"	NEXOR.suite /Article no: 60-20-2010	Yes - 43
	Brand	Operamed	Nexor	Dagri
	Origin	Italy	Germany	Slovenia
	Quantity	9 nos.	9 nos.	9 nos.
12.1	GLASS-MONITOR - GLAZED MODULE for 42-49inch monitor composed by a safety coloured glass element full height positioned flush with the wall and designed of a clear shaped area for monitor housing, including monitor internal structural supports	49" (Page No: 66,67)	49" (Page:125)	43" (Page:61,308)
	STANDARD DIMENSIONS L1200xH2000mm	Yes (Page No: 66,67)	Yes (Page:125)	Yes (Page:61,308)
13.0	Full HD PROFESSIONAL 24/7 MONITOR	Integrated Nurse Workstation	Prolite LH4982SB /Article no: 60-21-2049	Yes
	Brand	Operamed	IYAMA	Dagri
	Origin	Italy	Germany	Slovenia
	Quantity	9 nos.	9 nos.	9 nos.
13.1	Full HD PROFESSIONAL 24/7 MONITOR (dim.49") Edge LED Slim Bezel Display, OPS, HTML5 browser - Non medical grade monitor	49" (Page No:60)	49" (Page: 124)	Yes (Page:63,308)
13.2	Computer Embedded OPS CPU Intel Core i5 4210U 8Gb DDR 3 1600 SSD 60 Gb o HDD 320 Gb Intel HD 4400 4K WiFi + Bluetooth + WIN10Pro	Yes (Page No: 65)	Yes (Customized as per requirement)	Yes (Page:63,308)
13.3	Glass Medical keyboard and mouse	Yes (Page No: 64)	Yes (available)	Yes (Page:63,308)
14.0	SURGEON CONTROL PANEL 22 INCHES	I-TOUCH 22	NEXOR.suite /Article no: 60-80-1002_60- 801010 60-80-1012	Yes
	Brand	LM Medical	Nexor	Dagri
	Origin	Italy	Germany	Slovenia
	Quantity	9 nos.	9 nos.	9 nos.
14.1	Touch screen for real-time visual information about the current status of the monitored operating theatre systems and for control and setting of the essential physical ambient values	Yes (Page No: 77)	Yes (Page: 75,126)	Yes (Page:61,63,298 to 308)
14.2	True-flat touch screen PLC capable of controlling: Gas Alarms, HI/LO Hepa filter Alarm , positive 24VDC . Signal Differential Pressure Alarm , positive 24VDC Signal IPS System , positive 24VDC Signal for alarm - clean contact (DO) for test button, OR SURGICAL LIGHT, CEILING LIGHTS, TEMPERATURE & HUMIDITY. Clock / Stop watch - software Clock with Stop Watch.	Yes (Page No: 77)	Yes (Page:75,93B,126)	Yes (Page:61,63,298 to 308)
15.0	TECHNICAL UNIT	Service wall Panel	NEXOR.suite /Article no: 60-20-9055	Yes
	Brand	Operamed	Nexor	not mentioned
	Origin	Italy	Germany	not mentioned
	Quantity	9 nos.	9 nos.	9 nos.
15.1	L=1100mm	3000mm (Page no: 49)	1100mm (Page:140)	Yes (Page:309.1)
15.2	Flush wall mounted unit in extruded aluminum epoxy painted in RAL colouring.	Yes (Page no: 49)	Yes (Page: 140)	Yes (Page:309.1)
15.3	4 x gas outlet (Pre-piping installation and testing of Gas outlet with copper pipe for wall mounted)	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)
15.4	2 x Gas outlet BS standard, O2	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)
	1 x Gas outlet BS standard AIR4	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)
	1 x Gas outlet BS standard VAC	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)
	4 x Electrical socket schuko 16A	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)
	4 x Equipotential ground sockets	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)
	1 x Double data sockets RJ45 cat. 6 UTP	Yes (Page no: 49)	Yes (Page: 127)	Yes (Page:309.1)



16.0	BUILT-IN STORAGE CABINET	Yes	NEXOR.suite /Article no: 60-20-7030	Yes
	Brand	Operamed	Nexor	not mentioned
	Origin	Italy	Germany	not mentioned
	Quantity	9 nos.	9 nos.	9 nos.
16.1	Inside the modular walls antibacterial powder coated galvanized steel doors	Yes (Page No: 42)	Yes (Page:128)	Yes (Page:288)
16.2	Shelves in stainless with doors in powder coated antibacterial complete with handles and sealed gaskets spanning the perimeter Dim 1000 x 450 x 2100 mm (L x P x H)	Yes (Page No: 42)	Yes (Page:128)	Yes (Page:288)
17.0	DIRTY PASS THROUGH CABINET	Yes	NEXOR.suite /Article no: 60-20-6020	Yes
	Brand	Operamed	Nexor	not mentioned
	Origin	Italy	Germany	not mentioned
	Quantity	9 nos.	9 nos.	9 nos.
17.1	Height: 2100mm	Yes (Page No: 47)	Yes Height same as storage cabinet (Page:128)	Yes (Page:286)
17.2	Electrical interlocking in AISI 304 stainless steel with RAL painted doors.	Yes (Page No: 47)	Yes (Page:129)	Yes (Page:286)
17.3	Folding double door on both sides with manual deflector and emergency handle for manual unlocking in case of power shut-down.	Yes (Page No: 47)	Yes (Page:129)	Yes (Page:286)
17.4	Adjustable feet for perfect levelling and prepared for level installation with prefabricated wall - Including 3 nos. stainless steel shelves	Yes (Page No: 47)	Yes (Page:129)	Yes (Page:286)
17.5	Dim standard L 935xH 815(+75)xD600mm	Yes (Page No: 47)	Yes (Page:129)	Yes (Page:286)
18.0	SCRUB UNIT	3-Station	3-Station	3-Station
	Brand	Operamed	Nexor	Operamed
	Origin	Yes	Germany	Yes
	Quantity	5 nos. we have offered 5 units. If need more then we offered, unit price for this item in commercial invoice.	8 nos	5 nos.
18.1	Three-position automatic scrub station in stainless steel	Yes (Page No: 48)	Yes (Page:130)	Yes (Page:219)
18.2	Suspended AISI 304 polished stainless steel scrub station made up of one sink and joint-less rear shelf.	Yes (Page No: 48)	Yes (Page:141)	Yes (Page:219)
18.3	The sink should be equipped with automatic IR sensor operated wall source and mixer tap.	Yes (Page No: 48)	Yes (Page:130)	Yes (Page:219)
18.4	Dim. 1900x1160x560 mm (lxhxp) Including no.2 set of soap dispenser and no.2 brush holders	Yes (Page No: 48)	Yes (Page:130)	Yes (Page:219)
19A.0	CEILING PENDANT UNIT (Anesthesia)	ISOLA VERTICALE	NEXOR.port /Article no: 18-0000-100	Moduevo
	Brand	LM Medical	Nexor	GETINGE
	Origin	Italy	Germany	Germany
	Quantity	9 nos.	9 nos.	9 nos.
19A.1	1 x Ceiling single support adaptable to false ceiling Height max 800mm	Yes (Page No: 70)	Yes (Page: 87A,87B)	Yes (Page:64,65,310 to 335)
19A.2	1 x Ceiling supply system with single swiveling 0-330° arm 800mm with electromagnetic brake joint and LED load capacity 240Kg	Yes (Page No: 70)	Yes (Page: 44B,87A)	Yes (Page:64,65,310 to 335)
19A.3	1 x Vertical column H1200mm (Max electrical components 20 - Max gas outlets 16)	Yes (Page No: 69)	Yes (Page: 87A)	Yes (Page:64,65,310 to 335)
19A.4	2 x Swiveling vertical pole stainless steel telescopic H=1000mm D25 for accessories with IV stand with 4 hooks (capacity load 50Kg)	Yes (Page No: 69)	Yes (Page: 88B)	Yes (Page:64,65,310 to 335)
19A.5	4 x Electrical socket Schuko 16A green	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes (Page:64,65,310 to 335)
19A.6	4 x Electrical socket Schuko 16A Orange	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes (Page:64,65,310 to 335)
19A.7	8 x EquipotenVal ground sockets	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes (Page:64,65,310 to 335)
19A.8	1 x Double data sockets RJ45 cat.	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes (Page:64,65,310 to 335)
19A.9	6 x UTP DIN support	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes (Page:64,65,310 to 335)



19A.1	2 x Hole predisposition for electrical components (electrical components not included - define the shape)	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes (Page:64,65,310 to 335)
19A.11	7 x gas outlets and piping: n.2 Gas outlet BS standard Pres Block brand O2	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes (Page:64,65,310 to 335)
19A.12	2 x Gas outlet BS standard Pres Block brand AIR	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes (Page:64,65,310 to 335)
19A.13	4x.2 Gas outlet BS standard Pres Block brand VAC	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes (Page:64,65,310 to 335)
19A.14	1 x Gas outlet BS standard Pres Block brand N2O Twin handle for pendant control fixed to aluminum	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes (Page:64,65,310 to 335)
19A.15	2 x Shelf made of painted steel for ceiling pendant with handle	Yes (Page No: 69)	Yes (Page: 88)	Yes (Page:64,65,310 to 335)
19A.16	2xDIN rails (L460xW440mm) (capacity load 40Kg)	Yes (Page No: 69)	Yes (Page: 88)	Yes (Page:64,65,310 to 335)
19A.17	1 x Drawer with self-made in ABS (L460xW440xH170mm) (capacity load 45Kg)	Yes (Page No: 69)	Yes (Page: 88)	Yes (Page:64,65,310 to 335)
19A.18	1 x Monitor mounting facility	Yes (Page No: 69)	Yes (Page: 86B)	Yes (Page:64,65,310 to 335)
19B.0	CEILING PENDANT UNIT (Surgeon)	ISOLA VERTICALE	NEXOR.port /Article no: 18-0000-100	Moduevo
	Brand	LM Medical	Nexor	GETINGE
	Origin	Italy	Germany	Germany
	Quantity	9 nos.	9 nos.	9 nos.
19B.1	1 x Ceiling single support adaptable to false ceiling Height max 800mm	Yes (Page No: 70)	Yes (Page: 87A,87B)	Yes
19B.2	1 x Ceiling supply system with single swiveling 0-330° arm 800mm with electromagnetic brake joint and LED load capacity 240Kg	Yes (Page No: 70)	Yes (Page: 44B,87A)	Yes
19B.3	1 x Vertical column H1200mm (Max electrical components 20 - Max gas outlets 16)	Yes (Page No: 69)	Yes (Page: 87A)	Yes
19B.4	2 x Swiveling vertical pole stainless steel telescopic H=1000mm D25 for accessories with IV stand with4 hooks (capacity load 50Kg)	Yes (Page No: 69)	Yes (Page: 88B)	Yes
19B.5	4 x Electrical socket Schuko 16A green	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes
19B.6	4 x Electrical socket Schuko 16A Orange	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes
19B.7	8 x EquipotenVal ground sockets	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes
19B.8	1 x Double data sockets RJ45 cat.	Yes (Page No: 69)	Yes (Page: 84A,87B)	Yes
19B.9	6 x UTP DIN support	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes
19B.10	2 x Hole predisposition for electrical components (electrical components not included - define the shape)	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes
19B.11	7 x gas outlets and piping: n.2 Gas outlet BS standard Pres Block brand O2	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes
19B.11	2 x Gas outlet BS standard Pres Block brand AIR	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes
19B.12	4x.2 Gas outlet BS standard Pres Block brand VAC	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes
19B.13	1 x Gas outlet BS standard Pres Block brand N2O Twin handle for pendant control fixed to aluminum	Yes (Page No: 69)	Yes (Page: 84A,87B)will be provided as required Customised	Yes

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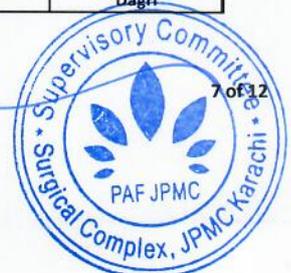


19B.14	2 x Shelf made of painted steel for ceiling pendant with handle	Yes (Page No: 69)	Yes (Page: 88)	Yes
19B.15	2xDIN rails (L460xW440mm) (capacity load 40Kg)	Yes (Page No: 69)	Yes (Page: 88)	Yes
19B.16	1 x Drawer with self-made in ABS (L460xW440xH170mm) (capacity load 45Kg)	Yes (Page No: 69)	Yes (Page: 88)	Yes
19B.17	1 x Monitor mounting facility	Yes (Page No: 69)	Yes (Page: 86B)	Yes
20.0	SURGICAL LIGHT (5 nos. for 5 nos. OR)	ILED 7/7	Nova 700T/700T	Volista Stand OP
	Brand	Trumpf	Nexor	GETINGE
	Origin	Germany	Germany	France
	Quantity	5 nos.	5 nos.	5 nos.
20.1	Double Dome LED OT Light	Yes (Page No: 94,95, 96B)	Yes (Page: 78B)	Yes (Page:349)
20.2	Lux : 160,000 + 160,000	Yes (Page No: 94,95, 96B)	Yes (Page: 80B)	Yes (Page:349)
20.3	Flange tube 1400mm	Yes (Customized) Page No: 94,95)	Yes (Page: 78B)	Yes (Page:349)
20.4	Multi-color	Yes (Page: 94,95)	Yes (Page: 80B)	Yes (Page:349)
20.5	Light field (d10) at illuminance at a distance of 1 m (mm): 150-280 or better	150-250mm (Page: 94,95,96B)	170-300mm (Page:80B)	Yes (Page:349)
20.6	Color temperature (Kelvin): 4,900	Yes (Page: 94,95,96B)	Yes (Page: 80B)	Yes (Page:349)
20.7	Color rendering index Ra : >=97	Yes (Page: 94,95,96B)	Yes (Page: 80B)	Yes (Page:349)
20.8	Lifetime of LED light > 60,000 hours	Yes (Page: 94,95,96B)	Yes (Page: 80B)	Yes (Page:349)
20.9	Electrical light field adjustment	Yes (Page: 94,95,96B)	Yes (Page: 80B)	Yes (Page:349)
20.10	Sterilisable handle	Yes (Page: 94,95,96B)	Yes (Page: 80B)	Yes (Page:349)
22.0	QUALITY STANDARD : Your offer should mention the International quality standard of offered OR i.e. ISO 5 or ISO 7. Preference will be given to higher standard.	ISO 5	ISO 5 (Page:80B)	ISO 5 (Page:402-525)
	Patients Aid Foundation reserve rights to get third party inspection before handing over the OR in order to assure quality of material, execution of work and etc.	Yes	Yes	Yes
23	WARRANTY : Three years comprehensive warranty.	Yes	Yes	Yes
24.1	DESIGN & MANAGEMENT : All activities related to the executive design, construction design of all elements subjected to supply including the coordination of each production and shipping phase.	Yes	Yes	Yes
25	INSTALLATION AND COMMISSIONING WITH LABOR & MATERIAL	Yes	Yes	Yes
25.1	Complete installation of Modular OR and commissioning	Yes	Yes	Yes
26	PROJECT MANAGEMENT AND SITE SUPERVISOR	Yes	Yes	Yes
26.1	Manufacturer's representative should be available at site during process of installation and handing over of ORs after completion of work. The staff should be qualified and at the level of Project Manager/Team leader of Supervisor category.	Yes	Yes	Yes
27.0	HYGIENIC VINYL FLOORING FOR CORRIDOR and WALL BUMPER RAIL	Yes	Yes	
27.1	Homogenous vinyl flooring.	Yes Primo Premium (Page:110)	Yes (Page: 119)	Yes (Page:237-246)
27.2	Minimum thickness of 2mm	Yes (Page: 110)	Yes (Page: 119)	Yes (Page:237-246)
27.3	Made with steel belt press technology to ensure consistent quality.	Yes (Page: 110)	Yes (Page: 119)	Yes (Page:237-246)
27.4	Choice of colors should be offered	Yes (Page: 110)	Yes (Page: 119)	Yes (Page:237-246)

B

	HIGH END MODULAR OPERATION THEATRE WITH INTEGRATION AND DATA MANAGEMENT SYSTEM (4 Nos)	Yes	Yes	Yes
	OT-11 : 28'.9" x 21'.6"	Yes	Yes	Yes
	OT-15 : 25'.3" x 24'.6"	Yes	Yes	Yes
	OT-16 : 25'.3" x 24'.6"	Yes	Yes	Yes
	OT-18 : 20'.9" x 24'	Yes	Yes	Yes
	INTEGRATION AND DATA MANAGEMENT SYSTEM FOR 4 NOS. HIGH_END MODULAR OT	Yes	Smart OR	OPTIONAL
	Brand	SurgiMedia	Nexor	Dagri

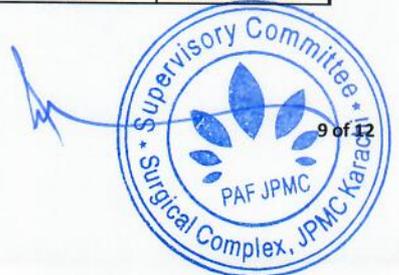


	Origin	France	Germany	Slovenia
	Quantity	4 nos.	4 nos.	1 No.
1.0	CONTROL PANEL	We can provide these 04 additional units on additional cost as per unit price offered in the commercial invoice.	Reinmedical - Germany	Dagri
	Quantity	Yes (Page:77)	4 nos.	1 no.
1.1	The Touch Screen control panel should be 24" medical grade color TFT/LED panel with full HD resolution stationed in the sterile field.	Yes (Page:77)	24" (Page:105-B,93,97)	22" (Page: 70-72,300-308,372-382)
	Control panel in the Modular OT responsible for managing building and devices.	Yes (Page:77)	Yes (Page:105-B,93,97)	Yes (Page: 70-72,300-308,372-382)
	This control panel should work as the central control panel for the surgical devices and theatre devices communication interfaces- both audio and video etc.	Yes (Page:77)	Yes (Page:105-B,93,97)	Yes (Page: 70-72,300-308,372-382)
	Integration control panel responsible for Video integration and data management.	Yes (Page:77)	Yes (Page:105-B,93,97)	Yes (Page: 70-72,300-308,372-382)
1.2	The panel should accommodate all necessary controls for the correct operation and video management.	Yes (Page:77)	Yes (Page:106)	Yes (Page: 70-72,300-308,372-382)
1.3	The touch screen should be spring arm mounted, stationed in the visibility line of the surgeon, ideally boom-mounted to carry all communicating cables. The access height should be convenient for the nurse to operate and help/assistant when in need.	Yes (Page:77)	Yes (Page:139)	Yes (Page: 70-72,300-308,372-382)
1.4	The Digital clock and the elapsed time indicator.	Yes (Page:77)	Yes (Page:93)	Yes (Page: 70-72,300-308,372-382)
1.5	The Medical gas alarm should indicate high and low gas pressures for each gas service present in the OT including vacuum. This should be supported by audible alarm also. The panel should have an alarm mute (fault annunciation) facility. The sensors (pressure switches) should be at the nearest isolation valve.	Yes (Page:77)	Yes (Page:92-B)	Yes (Page: 70-72,300-308,372-382)
1.6	Control for general lighting: ON/OFF and dimming controls organized in groups to provide uniform illumination.	Yes (Page:77)	Yes (Page:92-B)	Yes (Page: 70-72,300-308,372-382)
1.7	Control of the operating light (major and satellite and camera control- on/off and intensity control) should be provided.	Yes (Page:77)	Yes (Page:92-B)	Yes (Page: 70-72,300-308,372-382)
1.8	Hand free telephone set with memory should be located at one side.	Yes (Page:77)	Yes: customized will be provided	Yes (Page: 70-72,300-308,372-382)
1.9	Temperature and humidity control for the room connected to the AHU. (Adjustable from the panel)	Yes (Page:77)	Yes (Page:92-B)	Yes (Page: 70-72,300-308,372-382)
1.10	Digital room pressure indicator in cm of H2O or equivalent (signal from pressure sensor)	Yes (Page:77)	Yes (Page:93)	Yes (Page: 70-72,300-308,372-382)
1.11	HEPA filter bank differential pressure indicator desirable.	Yes (Page:77)	Yes (Page:93)	Yes (Page: 70-72,300-308,372-382)
1.12	Music control with (MP3 or equivalent player) and selection facility- desirable. (either individual OT or through central music system for the complex from the control room)	Yes (Page:77)	through bluetooth	Yes (Page: 70-72,300-308,372-382)
2.0	DIGITAL DISPLAY PANEL	Distriview IP-S 24	Nexor	not mentioned
	Brand	ISIS SAS, Surgimedia	Reinmedical - Germany	not mentioned
	Origin	France	Germany	not mentioned
	Quantity	4 pc	4 pc	not mentioned
2.1	29" flat panel, TFT color screen(monitor) with alphanumeric touch screen for messages and data	Yes (Page No: 100)	Yes (Page:97B)	Yes (Page: 70-72,300-308,372-382)
2.2	For displaying operating list and particular details etc	Yes (Page No: 100)	Yes (Page:97B)	Yes (Page: 70-72,300-308,372-382)
2.3	Message storage and scroll display	Yes (Page No: 100)	Yes (Page:97B)	Yes (Page: 70-72,300-308,372-382)
2.4	Touch screen operating with stylus	Yes (Page No: 100)	Yes (Page:97B)	Yes (Page: 70-72,300-308,372-382)
3.0	AUDIO-VISUAL COMMUNICATION SYSTEM	Distriview IP-S 24	Nexor	Yes
	Brand	ISIS SAS, Surgimedia	Nexor	Dagri
	Origin	France	Germany	Slovenia



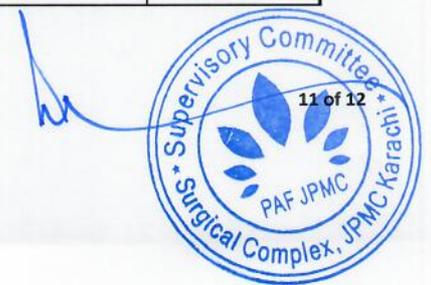
	Quantity	4 pcs	4 pc	1 No.
3.1	The operating rooms should be connected to the Conference room for video conferencing and live transmissions. Fiber optic cable should be laid accordingly	Yes (Page No: 99,100)	Yes (Page:106-B,98-B,103)	Yes (Page: 70-72,300-308,372-382)
3.2	The Audio/Video Router system should have the minimum following outputs.	Yes (Page No: 99,100)	Yes (Page:98B, 101B, 103 & 105 B)	Yes (Page: 70-72,300-308,372-382)
	16 S-video inputs and outputs 8 digital SD-SDI inputs and outputs 4 DVI-D (D Full HD) inputs & Outputs 8 RGBHV input and 4 outputs	Yes (Page No: 99,100)	Yes (Page:98A)	Yes (Page: 70-72,300-308,372-382)
	Min bandwidth 300 MHz (1x3) audio signal distributor Wireless microphone headset.	Yes (Page No: 99,100)	Yes (Page:98B)	Yes (Page: 70-72,300-308,372-382)
	Router should be an IP Switch with automatic recognition of any video signal connected, number of encoders based on the number of video-sources, number of decoders based on number of monitors, all cabling in fibre-optics.	Yes (Page No: 99,100)	Yes (Page: 103)	Yes (Page: 70-72,300-308,372-382)
3.3	Audio –Visual system should receive the signal from different sources like room camera, Endoscopy camera, Overhead camera, Archiving System and flat panel video connections	Yes (Page No: 99,100)	Yes (Page:107-B)	Yes (Page: 70-72,300-308,372-382)
3.4	An active loudspeaker shall be installed within the Operating room.	Yes (Page No: 99,100)	Yes (Page:98-B)	Yes (Page: 70-72,300-308,372-382)
	3 channel Loudspeaker with Digital volume control and Audio mixer and Audio equalizer should be installed at a most suitable place.	Yes (Page No: 99,100)	Yes (Page:98-B)	Yes (Page: 70-72,300-308,372-382)
	Suitable cable material and a patch panel should be offered as per the position of the Loudspeaker.	Yes (Page No: 99,100)	Yes (Page:98-B)	Yes (Page: 70-72,300-308,372-382)
3.5	The surgeon and his team should be able to do Bi-Directional Audio/Video communication from OT to Conference Room	Yes (Page No: 99,100)	Yes (Page: 106-A,107-B)	Yes (Page: 70-72,300-308,372-382)
3.6	A Video Conferencing system should be offered for external communication from the operating room.	Yes Quote: We provide only the part inside the Operating theater: it can connect with every device inside the hospital, or outside of the hospital to connect theater devices with conference for streaming and hospital IT will have to manage cabling and equipment. UnQuote	Nexor (Page: 97-B, 106-B)	Yes (Page: 70-72,300-308,372-382)
	Video conferencing Room should have one large screen (24"x36") HD Screen (colour TFT/LED) wall mounted.	Yes (Page No: 99,100)	1 no. (Page: 97-B, 106-B) 75"	Yes (Page: 70-72,300-308,372-382)
	The system should be able top transfer high quality real time images and audio signals from multipoint at a minimum speed of 2Mbps.	Yes (Page No: 99,100)	Yes (Page:97-B, 106-B)	Yes (Page: 70-72,300-308,372-382)
	The system should be fully digital system with resolution up to HD for transmission over the IP Service.	Yes (Page No: 99,100)	Yes (Page:97-B, 106-B)	Yes (Page: 70-72,300-308,372-382)
	The conferencing system should be controlled via the touch screen of the integration system form within the sterile field.	Yes (Page No: 99,100)	Yes (Page:97-B, 106-B)	Yes (Page: 70-72,300-308,372-382)
	Suitable Number / Sets of Transmitters, Receivers and Cable Material should be offered as per the requirement	Yes (Page No: 99,100)	Yes (will be provided as required/ in actual)	Yes (Page: 70-72,300-308,372-382)
3.7	A digital telephone system shall be connected to the system and shall allow the surgeon or his assistant to make telephone calls by Dialing form the touch screen.	Videoconference professional grade (Skype for business like)	Yes (Customized)	Yes (Page: 70-72,300-308,372-382)
	The telephone system should be controlled via the touch screen from within the sterile field.	Yes (Page No: 99,100)	Yes (Customized)	Yes (Page: 70-72,300-308,372-382)
	An In-ear monitoring system should be provided to allow the caller to make discrete telephone conversation.	Yes (Page No: 99,100)	Yes (Customized)	Yes (Page: 70-72,300-308,372-382)
	The user can place and/or receive telephone calls by using ceiling mounted directional microphones.	Yes (Page No: 99,100)	Yes (Customized)	Yes (Page: 70-72,300-308,372-382)
4.0	IMAGE DATA MANAGEMENT	Distriview IP-24	Yes	not mentioned
	Brand	ISIS SAS, Surgimedia	Nexor	not mentioned
	Origin	France	Germany	not mentioned
	Quantity	4 nos.	4 nos.	not mentioned



4.1	Individual high definition monitor (2kx1k to display images through PACS)	Yes (Page:98,99,100)	Yes (Page: 95-B)	Yes (Page: 70-72,300-308,372-382)
4.2	Operating Panel should be fully integrated in to the wall	Yes (Page:98,99,100)	Yes (Page: 97-A)	Yes (Page: 70-72,300-308,372-382)
4.3	21" Medical grade Monitor	Yes (Page:98,99,100)	24" (Page: 97-A)	Yes (Page: 70-72,300-308,372-382)
4.4	Patient and Image data should be able to call up and distributed to required monitors in the Operating Room	Yes (Page:98,99,100)	Yes (Page: 95-B)	Yes (Page: 70-72,300-308,372-382)
5.0	CENTRAL CONTROL ROOMS	Distriview IP-S 24		not mentioned
	Brand	ISIS SAS, Surgimedia	Nexor	not mentioned
	Origin	France	Germany	not mentioned
	Quantity	4 nos.	4 nos.	not mentioned
5.1	High definition 21" monitor (2kx1k) for the display of live transmission of images and video sequences from the Operating Room (for eg, images from C arm, endoscope, OR light camera and Microscope	Yes (Page:100)	Yes (Page: 97-A, 107-B)	Yes (Page: 70-72,300-308,372-382)
5.2	Should have Music control with (MP3 or equivalent player) and selection facility-desirable. (either individual OT or through central music system for the complex)	Yes (Page:100)	Yes (customized, through bluetooth)	Yes (Page: 70-72,300-308,372-382)
5.3	Should have provision to record the images and video sequences from OT	Yes, on dedicated server, on USB, or on local memory	Yes (Page: 99-B)	Yes (Page: 70-72,300-308,372-382)
5.4	The Full High-Definition Digital Documentation System should be a high-end computer system based on Windows embedded platform (for security purposes) designed specifically for recording, managing, and archiving surgical images and video in native full HD resolution.	Yes (Page:100)	Yes (Page: 106-A, 109)	Yes (Page: 70-72,300-308,372-382)
5.5	The captured full high-definition images & videos can be accessed from the hard drive for printing or saving onto multiple forms of external media which includes CD/DVD, USB Flash Drive & Hospital network.	Video recording not offered. CD/DVD. USB storage no offered	Yes (Page: 108A,108B)	Yes (Page: 70-72,300-308,372-382)
	The system should be integrated with the Central Control System in such a way that the central control system is capable to route any running high-definition surgical videos, which is being recorded in it, onto any display device in an operating room.	Yes (Page:100)	Please see Page No. 107B, 108 & 109 Also, please see page no. 101B, 102-A, & 102-B	Yes (Page: 70-72,300-308,372-382)
	It should have at least 1TB internal Hard Disk Drive (HDD) for in-system archiving.	Yes (Page:100)	Yes (Page:101A,101B)	Yes (Page: 70-72,300-308,372-382)
	It should have a feature of real time in-procedure DVD burning besides at-the-end procedure DVD burning.	Yes(Page:100) Yes for the memory, no for the live DVD burning, but it can of course be done after	Yes (Page:101B)	Yes (Page: 70-72,300-308,372-382)
	It should have a customized report generation & production (printing) feature.	Yes (Page:100)	Yes (it can be connected to printer)	Yes (Page: 70-72,300-308,372-382)
	Should be real time, MPEG-2HD, 2, or 4 compression engine with full IBP encoding.	Yes (Page:100)	Yes (Page:109)	Yes (Page: 70-72,300-308,372-382)
	Should have video inputs minimum 2 nos. S-Video, 2 nos. Composite, 1 X VGA and 2 full high-Definition.	Yes (Page:100)	Yes (Page:103)	Yes (Page: 70-72,300-308,372-382)
	Should have a dual channel capturing & recording capability as well as built-in PIP (picture-in-picture) functionality.	Yes (Page:100)	Yes (Page:108A)	Yes (Page: 70-72,300-308,372-382)
	Should have video outputs S-Video, Composite, DVI& VGA Should be capable to capture: Analog (640 x 480 image of room camera, inlight camera, C arm, Ultrasound etc.), Hi-Res (1024 x 768 image of 3 chip camera, PACS PC), and High Definition Progressive Scan (1280 x 1024 or higher intensity image from High Definition Three chip Endoscopic Camera)	Yes (Page:100)	Yes (Page: 101B Customized, provided as required)	Yes (Page: 70-72,300-308,372-382)
	Should have Stereo audio Input Should support file formats for : Images: Bitmap (BMP), JPEG, JPEG2K, Tagged Image File Format (TIFF), True vision Targa (TGA), and Portable Network Graphics (PNG) Videos: MPEG-2HD, MPEG-2, and MPEG-4	Yes (Page:100)	Yes (Supported)	Yes (Page: 70-72,300-308,372-382)
6.0	OT LIGHT WITH CAMERA AND MONITOR: (4 nos. for 4 nos. ORs)	ILED 7/ ILED 7 with HD Camera and Monitor	Nova 700/700T with HD Camera and Monitor	Vistola StandOP 600+400
	Brand	Trumpf	Nexor	Gatinge
	Origin	Germany	Germany	France
	Quantity	4 nos.	4 nos.	1 No.
6.1	Dual Dome LED Surgical Lighting System with one dedicated Spring-Arm Suspension for Progressive Scan HD Flat Panel with an Integrated In-Light HD Camera System	Yes (Page No: 96F)	Yes (Page: 78-B,132)	Yes (Page:349)



6.2	Operating Room Surgical Lighting System should provide an ideal combination of brightness, maneuverability, and shadow resolution without sacrificing color accuracy through a consistent LED technology with a unique faceted reflector design technology.	Yes (Page No: 96A)	Yes (Page: 80-B)	Yes (Page:349)
6.4	Number of Light heads: : Two per suspension	Yes (Page No: 96B)	Yes (Page: 79-b,80-B)	Yes (Page:349)
6.5	Number of LEDs : minimum 90 LEDs , each dome (Total: 180LEDs)	144LEDs (Page:96B)	Yes (Page: 80-B) 96 LEDs	Not mentioned
6.6	Color Temperature : 3500 - 5500 K	3500-5000K (Page:96B)	Yes (Page: 80-B) Upto 5000	Yes (Page:349)
6.7	Field Size Diameter Depth : 6 inch – 12 inch	Yes (Page No: 96B)	Yes (Page: 80-B)	Yes (Page:349)
6.8	Depth of Field : 30 – 35 inch	16-25 (Page:96B)	Yes (Page: 80-B)	16-25 (Page:349)
6.9	Illumination Level : minimum 160,000 Lux each	Yes (Page No: 96E)	Yes (Page: 80-B)	Yes (Page:349)
6.10	Controls : Wall Control Touch Panel	Yes (Page No: 96E)	Yes (Page: 80-B)	Yes (Page:349)
6.11	Rotation : 360 degrees	Yes (Page No: 96E)	Yes	Yes (Page:349)
6.12	Vertical Adjustment Range : + 20 inch – 25 inch	Yes (Page No: 96E)	Yes (Page: 80-B)	Yes (Page:349)
6.13	Sterilizable Handle	Yes (Page No: 96E)	Yes (Page: 80-B)	Yes (Page:349)
6.14	Light head Diameter : 20 – 30 inch	Yes (Page No: 96D)	Yes (Page: 79-B)	Yes (Page:349)
6.15	Mounting Type : Ceiling	Yes (Page No: 96F)	Yes (Page: 80-B)	Yes (Page:349)
6.16	Supply Voltage : 230 VAC 50 Hz	Yes (Page No: 96C)	Yes (Page: 80-B)	Yes (Page:349)
6.17	Bulb Type : LED	Yes (Page No: 96B)	Yes (Page: 80-B)	Yes (Page:349)
6.18	Dimming Range : 10% - 100%	Yes (Page No: 96B)	Yes (Page: 80-B)	30-100% (Page:349)
6.19	Operating/Storage	Yes (Page No: 96B)	Yes (Page: 80-B)	Yes (Page:349)
6.20	Humidity : 10 – 95%	Yes (Page No: 96B)	Yes (Page: 80-B)	Yes (Page:349)
6.21	Life of Light Source : > 60,000 Hrs.	Yes (Page No: 96B)	Yes (Page: 80-B)	Yes (Page:349)
6.22	B. Camera System	Yes (Page No: 70)	Yes	Yes (Page:349)
6.23	Integrated In-Light HD Camera System should be integrated at the centre of one of the domes of this lighting system in order to capture images & video sequences of the open cases.	Yes (Page:96J)	Yes (Page: 78-B,81-B)	Yes (Page:349)
	HD Camera should be scalable to 4K.	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.24	Camera should be Full HD. Resolution 1980 x 1080	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.25	Signal to Noise Ratio (S/N Ratio) : < 50dB	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.26	Minimum Illumination : <3 lx	Yes (Page:96J)	Yes (Page:81-B)	12lx (Page:349)
6.27	Optical Zoom : 25 – 30x	Yes (Page:96J)	Yes (Page:81-B)	10 x (Page:349)
6.28	Digital Zoom : 12-15X	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.29	Power Supply : Through Light / max. 12W	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.3	Relative Humidity : <90%	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.31	Video Output: S-Video & Composite Video	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.32	White Balance & Gain : Automatic/Manual	Yes (Page:96J)	Yes (Page:81-B)	Yes (Page:349)
6.33	Surgical Light System Should be compliant with relevant European (CE) /US FDA	CE & FDA (Page No: 96A)	CE (Attached)	Yes (Page:349)
	Light and Integrated Camera should have a control through Touch Panel of the control equipment placed inside the operating room at documentation station / nurse works station	Yes (Page No: 96A)	CE (Page: 107-A)	Yes (Page:349)
6.34	C. Flat Panel Monitor	Yes (Page No: 96O)	Yes (Page: 82-B)	Yes (Page:349)
6.35	Should be 23" High Definition Progressive Scan Flat-panel Monitors with ceiling mounted spring arm suspension to support high-definition/HDTV progressive Scan images and should be able to support and display DVI/HDTV, RGBHV, S-Video, Composite video signals.	Yes (Page No: 96N)	Yes (Page: 97-A)23"	Yes (Page:349)



	The flat Panel suspension should be ready with the cables for integration of High Definition Digital (DVI/HDTV), RGBHV (High Resolution), SVHS (S-Video),	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.36	Composite video signals to travel from the various sources of video like endoscopic camera, room camera, in light camera, high definition flat panel monitors, while assuring native resolution / signal.	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.37	Resolution : Full HD, Progressive Scan	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.38	Display Colors : 16 Million Colors	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.39	Inputs : DVI, RGBHV, S-Video, Composite Video Digital	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.40	Synchronization : 2.5 – 5.0 Vpp	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.41	separated sync Response time : < 25ms Travel : 330° - 340°	Yes (Page No: 96N)	Yes (Compatible)	Yes (Page:349)
6.42	Forward Tilt : 30° - 40°	Yes (Page No: 96N)	Yes (Page: 82-B)	Yes (Page:349)
6.43	Backward Tilt : 45° - 50°	Yes (Page No: 96N)	Yes (Page: 82-B)	Yes (Page:349)
6.44	Cable Kit for Integration : Fiber Optic	Yes (Page No: 96N)	Yes	Yes (Page:349)
Remarks		Qualified	Qualified	Disqualified





Item No: 1 Modular Operation Theatre**Mandatory Documents Checklist**

S. No	Document Description	M/s Total Technologies	M/s BIOS	M/s BIOTECH Pakistan
1	Tender Purchase Receipt/ Tender Fee Pay Order	Yes	Yes	Yes
2	Bid Security (Copy with Value Hidden, original in Financial)	Yes	Yes	Yes
3	Bidding Document issued by the procuring agency (Duly, filled, signed and stamped by Bidder)	Yes	Yes	Yes
4	Item wise/ Feature wise/ product compliance/ deviation sheet/ statement on Bidders's Letter head. Duly filled, signed, & stamped by Bidder	Yes	Yes	Yes
5	Technical Proposal on Bidder's Letter Head	Yes	Yes	Yes
6	Undertaking	Yes	Yes	Yes
7	Certificate	Yes	Yes	Yes
8	Income Tax and GST Registration Certificate	Yes	Yes	Yes
9	Professional Tax Certificate (Sindh)	Yes	Yes	Yes
10	DRAP Registration/ Liscence	Yes	Yes	Yes
11	Income Tax Return (last 3 years)	Yes	Yes	Yes
12	Audited Financial Statement (1 year)	Yes	Yes	Yes
13	Manufacturer's Authorization to Bidder	Yes	Yes	Yes
14	Brouchre of Catalogue (Original) Submission in form of photocopy, photographs, or word document is not acceptable)	Yes	Yes	Yes
15	Technical Data Sheet	Yes	Yes	Yes
16	Quality Certificates as ISO,CE,FDA etc (Required certifications mentioned in tender specification of each tender)	Yes	Yes	Yes

Note:**M/s Total Technologies, M/s BIOS, M/s BIOTECH Pakistan qualified for technical evaluation.**

Report of pre-bid meeting regarding tender notice of supply, installation and commissioning of Modular Operation Theatre's at 6th floor, Surgical Complex at Jinnah Postgraduate Medical Center, Karachi

A pre-bid meeting was held on April 9th, 2022 at 11:00 am in Lecture Hall 2nd floor Radiology building at JPMC, Karachi, for issues of bidders regarding specifications of Medical Equipment.

1 - Total Items which were tendered are as follows:

S. No	Tender Details	Sub Items
i.	Modular Operation Theatre	09
ii.	Equipment for Operation Theatre	48
iii.	Bedhead Panel for Pre & Post operation & recovery	36
iv.	Dedicated PACS with integrated HIMS	01
v.	UPS	03
vi.	Lecture Hall Roof top of Surgical Complex	01
vii.	Security Camera and fire alarms	01
viii.	Floor Scrubber	06

2 - Tender was purchased by 31 Bidders which are as follows:

S.No	Tender	Bidders Participated
i.	Modular Operation Theatre	a. M/s Biotech Pakistan b. M/s Allmed Solutions c. M/s BIOS d. M/s Techsol Solutions e. M/s Vertex Medical Pvt Ltd f. M/s Radiant Medical Pvt Ltd g. Eastern Medical Technology Services
ii.	Equipment for Operation Theatre	a. M/s Radiant Medical Pvt Ltd b. M/s Latif Brothers c. M/s Jasani Scientifics d. M/s Medequips SMC e. M/s Vertex Medical Pvt Ltd f. M/s BIOS g. M/s Medline Technologies Pvt Ltd h. M/s Med-Elec Corporation i. M/s Biotech Pakistan j. M/s Platinum Corporation k. M/s Allmed Solutions l. M/s Noor International m. Eastern Medical Technology Services n. Medical Equipment & Systems
iii.	Bedhead Panel for Pre & Post operation & recovery	a. Care Health Solution
b.	Dedicated PACS with integrated HIMS	a. M/s Deneb Corp b. M/s Medequips SMC c. M/s Fujifilm Pakistan Pvt Ltd d. M/s Medline Technologies Pvt Ltd
c.	UPS	a. M/s Techsol Solutions
d.	Lecture Hall Roof top of Surgical Complex	-Nil-
e.	Security Camera and fire alarms	a. M/s M.A Tech b. International Office Suppliers
f.	Floor Scrubber	a. M/s Akbar Ali & Sons b. IR Equipment

28 APR 2022



Naresh Kumar

3 - 13 Bidders participated in pre-bid meeting which are as follows:

S.No	Bidders Participated
1.	M/s Jasani Scientifics
2.	M/s Medequips SMC
3.	M/s Techsol Solutions
4.	M/s Fujifilm Pakistan Pvt Ltd
5.	M/s Medline Technologies Pvt Ltd
6.	M/s Vertex Medical Pvt Ltd
7.	M/s Biotech Pakistan
8.	M/s Deneb Corp
9.	M/s Total Technologies
10.	M/s Radiant Medical Pvt Ltd
11.	M/s Allmed Solutions
12.	M/s Siemens Healthineers
13.	M/s BIOS

Nine Bidders had raised queries. After listening to them, it was requested to submit their issues in writing which are as follows:

Item No 01: Modular Operation Theatre			
S.No.	Name of Firm	Query/Question/Suggestion	Recommendation from Procurement authority
1.	M/s. Biotech Pakistan	<p>Suggested:</p> <p>Wall panels should be "screw based" fixation.</p> <p>Wall panel should three panel system</p> <p>Integration and data management for high end Modular OT:</p> <p>Please confirm if the integration and data management is require in all 9 OTs?</p> <p>Kindly confirm which specifications should be considered for the OT light to be installed in OR with integration? either at <i>Serial # 20, Surgical Light Page 39</i> OR <i>Serial# 06 OT light with camera and monitor at Page 42.</i></p> <p>Kindly advise if MEP services along with the AHU and ducting works are to be done by the main contractor?</p> <p>Can have the ducting drawings</p>	<p>Accepted</p> <p>Can be screw less/ screw based and single or three piece.</p> <p>4 x Operation Theaters (OT 11, 15, 16 & 18) will be integrated.</p> <p>Serial# 06 OT light with camera and monitor mentioned at Page 42.</p> <p>Yes</p> <p>Please contact with Mr. Amir /Pioneer Engineering- Cell : 0333 2993644</p>

28 APR 2022



Page 2 of 6

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		<p><u>Sr. no. 3 : Glass Wall Panel for OTs</u></p> <p>Kindly advise if these brick walls will be demolished at the location where the glass wall will be installed in the Operating room</p> <p>Kindly confirm if the printing on the Stainless Steel Panel will be acceptable against the printed glass panel?</p>	<p>Sr. 3. Should be considered as deleted.</p> <p>Wall paneling of entire OT should be done with Stainless steel. Specification should be same as mentioned in Sr. no. 2 : Wall Panel Stainless steel.</p> <p>Acceptable.</p>
2.	M/s. Total Technologies	<p>Suggested :</p> <p>Quantity of Modular OR for Integration</p> <p>Wall panel should be antimicrobial PVC film of 60 micron. Art work size should be 9 sqm. Glass wall should be back UV printed and should be 8mm. False ceiling DIN 67530 certificate should be deleted. Return air grills size should be 400 x 400 upper and 400 x 600 lower. Doors should be stainless steel. Sensor should be touch less. Hinged door should be stainless steel. Swing door double leaf should be stainless steel. Peripheral lights should be IP65. Technical unit length should be 320 x 3000mm. Surgical light color temp should be: 3,500 ~ 5,000. RA should be 96. LED Life time should be 50,000 hour.</p>	<p>Amended</p> <p>Clarification only four Operation Theaters (OT 11, 15, 16 & 18) will be integrated.</p> <p>The tender specifications and scope of work has been prepared considering the application and economic factors hence tender specification will remains same.</p>
3	M/s BIOS	<p>Query:</p> <p><u>Sr. no. 3 : Glass Wall Panel for OTs</u></p> <p>Please confirm if the brick walls will be demolished at the location where the glass wall will be installed?</p>	<p>Sr. 3. Should be considered as deleted.</p> <p>Wall paneling of entire OT should be done with Stainless steel. Specification should be same as mentioned in Sr. no. 2 : Wall Panel Stainless steel.</p>

28 APR 2022



Page 3 of 6

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		<p><u>Sr. no. 10 : Swing Door Double leaf</u></p> <p>Please confirm if door leaf should be single or double?</p> <p><u>Sr. no. 19 : Ceiling Pendant</u></p> <p>Please confirm if ceiling pendants are require for surgeon and anesthesia?</p>	<p>It is a Single leaf.</p> <p>Two Pendants are required i.e One for Surgeon and One for Anesthesia.</p>
4	M/s. Allmed Solution	<p>Suggested:</p> <p>Amend the required country of origin which is USA / UK / Japan / Western European and change it to as USA/Europe/Japan, which is the standard.</p>	<p>One Bidder out of Seven wants to remove word Western Europe, therefore it was not accepted.</p> <p>Tender specifications remain same</p>

Item No 02: Equipment for Operation Theatre			
S.No.	Name of Firm	Query/Question/Suggestion	Recommendation from Procurement authority
1.	M/s. Radiant Medical (Pvt) Ltd.	<p><u>Sub-Item no: 5 – Multipara Monitor</u> Suggested to add following features:</p> <p>Trend data should be up to 120 hours or more</p> <p>Manufacturer from other countries will be acceptable if equivalent has FDA, CE, JIS or JQAO any two should be detected.</p> <p>Only USA/UK/EU & Japan manufacture should be acceptable.</p>	<p>Accepted: Trend data can be up to 120 hours or more</p> <p>Tender specification remain same</p>
		<p><u>Sub-Item no: 39 – Crash Cart with Defibrillator</u> Suggested to add following features: Drawer should be min 3 or more with 2 small 3” H and 1 big 6”</p> <p>Screen size should be 5.7” color display which is enough viewing area for parameters</p> <p>Manual and AED mode energy should be 200Joules biphasic</p> <p>Min 3 wave form should be included in specification</p>	<p>Accepted: Total 5 or more</p> <p>Tender specification remain same(8” or more)</p> <p>Tender specification remain same</p> <p>Tender specification remain same</p>

28 APR 2022



Page 4 of 6

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		<p>Sub-Item no: 42 –ECG Machine Suggested to add following features:</p> <p>Display size should be 7” inches or more touch screen display.</p> <p>Paper size should be 210mm</p> <p>PDL/XML export should be included at specification.</p>	<p>It is a basic unit</p> <p>Tender specification remain same</p>
		<p>Sub-Item no: 49 – Capnograph Suggested to add following features:</p> <p>Trace waveform should be 1 which is enough for ETCO2 Resp. parameter view.</p> <p>Sampling rate should be 4Hz(4 sample/sec)</p> <p>CO2 range should be of 0-99mmHg</p> <p>Respiration rate should be 3-80bpm.</p>	<p>Accepted</p> <p>Tender specification remain same</p> <p>Accepted</p> <p>Revised to 120bpm or more.</p>
2	M/s. Latif Brothers	<p>Sub-Item no: 21 – Operating Microscope Query:</p> <p>Specify type of surgery.</p> <p>Kindly confirm if following optional accessories are required:</p> <ul style="list-style-type: none"> ▪ HD video Camera attachment with HD recorder. ▪ Stereo observation attachment with these axis rotation and image erection. 	<p>Maxillofacial</p> <p>Unit should be quoted with all standard accessories. Optional accessories may be quoted as OPTIONAL.</p>
3	M/s. Jasani Scientifics	<p>Sub-Item no: 21 – Operating Microscope Suggested:</p> <p>Foldable tube 170/f260 is brand specific so please remove the same.</p>	<p>Accepted Word “Foldable tube” is removed and replaced with 0~180° binocular tube with IPD adjustment</p>

28 APR 2022



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		<p><u>Sub-Item no: 48 – Microsurgical System for ENT Surgery</u> Suggested:</p> <p>Delete Active Vibration Damping</p> <p>Change focal length adjustment from 200 to 600 mm or better</p> <p>Automatic draping with thirty drapes</p> <p>Change the specifications with integrated/ external camera</p> <p>Foldable tube 170/f260 is brand specific so please remove the same.</p>	<p>Should be quoted as an option</p> <p>Accepted</p> <p>Better to quote the model which has this facility, otherwise it will be evaluated from the technical committee.</p> <p>Integrated camera is required 3 Chip or better, External camera system can be quoted as an option. It will be evaluated by the technical committee.</p> <p>Accepted Word “Foldable tube” is removed and replaced with 0~180° binocular tube with IPD adjustment</p>
4	M/s. Medequips	<p><u>Sub-Item no: 25 - High End Color Doppler</u> Suggested to add following features :</p> <p>Shearwave Elastography Attenuation Frame Rate 2000fps Processing channels 5,000,000. Depth 48 cm or more Country of origin: USA/Japan/Europe</p>	<p>Accepted</p> <p>Shearwave Elastography Attenuation Frame Rate 2000fps Processing channels 5,000,000. Depth 48 cm or more Country of origin: USA/Japan/Europe</p>
<p>Note: The technical specifications and scope of work provided in the bidding document are based on the knowledge of committee members about different items, there manufacturing systems worldwide, local setup of companies, and their proven standing in after sales services, needs of the hospital and availability of budget & to offer fair competition. There is no intention to favor any bidder nor to put anyone at disadvantage. Bidders are requested to quote equipments having equivalent or having better technical specifications.</p> <p>Bidders are advised to visit the installation site for actual measurement and BOQ.</p>			

- No reservations received in item (v)-UPS & item (viii)-Floor Scrubber from any bidder.
- The tender of (iv)-Dedicated PACS with integrated HIMS and (vii)-Security Camera with Fire Alarms deferred following reservations from the IT & Security Department of JPMC, Karachi.

28 APR 2022



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