

## CERTIFICATE

It is certified that in compliance of Rule-48 of SPP Rule 2010 (Amended Up to Date), Even when only one bid is submitted, the bidden process may be considered valid, if the bid was advertised in accordance with rules, and prices are comparable to (PC-I cost or Financial Estimates or) the prices or rates of the last awarded contracts or the market prices.

**PPMS ID:** T00518-23-0005

**Tender Name:** PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT

**Tender Reference:** PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

**PROF. DR. SADQA AFTAB**

**Chairperson - PC**

HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology

MRBS DMRD FRCR  
SMBB Institute of Trauma, Karachi

**DR. YOUSUF MEMON**

**Member - PC**

HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi

**PROF. DR. BADDARUDDIN SAHITC**

**Member - PC**

Head of the Department of Orthopaedic Surgery  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

**MR. MUHAMMAD IBRAHIM MEMON**

**Member - PC**

Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

**MR. BILAL IDREES**

**Member - PC**

MANAGER  
Supply Chain Management  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**

**MR. MUHAMMAD FAHEEM**  
SMBB Institute of Trauma

**Member - PC**

Pharmacist

SMBB Institute of Trauma, Karachi

**MR. HAMMAD HUSSAIN**

**Member - PC**

Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

## TECHNICAL EVALUATION

PPMS ID # T00518-23-0005

TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 / (2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL 14-03-2024 AT 11:30 AM

TENDER TITLE:

PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS, SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT

Name of Item	Qty.	Product Description / Specification	Company Name	Brand Name / Make	Model	Conformity to the Purchaser's Specifications (Mandatory) (10 Marks)		Trained Product specialist (10 Marks)		Manufacturer's Authorization (10 Marks)		Human Resource (Technical Staff) (06 Marks)		Networking (04 Marks)		Experience/ Performance (10 Marks)		Average Annual Turnover during last three (03) financial years (Audited Statements of Accounts and Income Tax Return Forms must be attached as supporting documents) (10 Marks)		Bonus points (Free of Cost Extended Warranty) (In accordance with the comprehensive warranty period including all parts) (10 Marks)		Total Technical Marks		Remarks
						Fully compliant with the required technical specifications (Product / service) / report experience of the product / service (For technical / functional / performance / reliability / durability / maintenance / repair / replacement / spare parts / accessories / consumables / consum																		

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SMBB Institute of Trauma

MUHAMMAD FAHEEM  
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							1. Fully compliant with the required technical specifications (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	2. Compliance with minor deviation up to 10% (10 marks)	3. Above 10%, 20% compliance to required specifications (10 marks)	1. Three marks for each foreign Trained Product Specialist (TPS) (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	2. Two marks for each foreign Trained Product Specialist (TPS) (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	3. One mark for each foreign Trained Product Specialist (TPS) (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	1. Sole Authorized Distributor in Pakistan for last 3 years (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	2. Sole Authorized Distributor in Pakistan for last 3 years (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	3. Sole Authorized Distributor in Pakistan for last 3 years (Product documentation, User's manual, etc. may also be considered for technical evaluation) (10 marks)	1. Graduate Engineer with PEC (Professional Engineering Council) registration and valid license for last 3 years (10 marks)	2. Graduate Engineer with PEC (Professional Engineering Council) registration and valid license for last 3 years (10 marks)	3. Graduate Engineer with PEC (Professional Engineering Council) registration and valid license for last 3 years (10 marks)	1. Networking setup across Pakistan (10 marks)	2. Networking setup across Pakistan (10 marks)	3. Networking setup across Pakistan (10 marks)	1. Product Engineer with 5 years experience (10 marks)	2. Product Engineer with 5 years experience (10 marks)	3. Product Engineer with 5 years experience (10 marks)	1. Turn over above PKR 1 billion (10 marks)	2. Turn over above PKR 500 million (10 marks)	3. Turn over above PKR 100 million (10 marks)	1. Free of Cost Extended Warranty for 3 years (10 marks)	2. Free of Cost Extended Warranty for 2 years (10 marks)	3. Free of Cost Extended Warranty for 1 year (10 marks)		
21	EXHAUST FAN (CEILING SUSPENDED)	Operation Rooms (As per site requirement)	As per Mentioned in SHD	M/s. Allied Solutions	ROBATHERM (Germany)	Will be after approval of design	40	-	-	6	0	-	8	-	-	4	2	4	3	3	10	-	-	-	0	5	85	Qualified				
22	SINGLE DOME LED OPERATING LIGHT WITH SECOND ARM FOR MONITOR	2	As per Mentioned in SHD	M/s. Allied Solutions	INFIMED Sp. z o.o (Poland) FORESESON (Korea)	Proxy OL-03 I HDC-02 I FS-L3202D or Equivalent	-	30	-	6	0	-	-	-	-	0	4	2	4	3	3	10	-	-	-	10	0	72	Qualified			
23	ELECTRIC WINDOW BLINDS WITH LEAD PROTECTION	Operation Rooms (As per site requirement)	As per Mentioned in SHD	M/s. Allied Solutions	Imported	Imported	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
24	STAINLESS STEEL SURGICAL SCRUB WITH KNEE & SENSOR OPERATION	1	As per Mentioned in SHD	M/s. Allied Solutions	INFIMED Sp. z o.o (Poland)	SI-422 (With Infrared water dispenser)	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
25	LED X-RAY FILM ILLUMINATOR FOR OPERATING ROOM	1	As per Mentioned in SHD	M/s. Allied Solutions	INFIMED Sp. z o.o (Poland) ULTRAVIOLET	LED NGP 31	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
26	DUAL ARM SURGICAL PENDANT	1	As per Mentioned in SHD	M/s. Allied Solutions	G. Samaras S.A (Greece)	Thermi	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
27	DUAL ARM ANESTHESIA PENDANT	1	As per Mentioned in SHD	M/s. Allied Solutions	G. Samaras S.A (Greece)	THESSALONIKI	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
28	Electrical Cable Work - Misc. for OT's & AHU	Operation Rooms (As per site requirement)	As per Mentioned in SHD	M/s. Allied Solutions	-	-	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
Optional Items																																
1	Portable surface & Ducts decontamination system using dry fog process	1	As per Mentioned in SHD	M/s. Allied Solutions	Air in Space (France)	X-CID (CP01038-1)	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
2	Hand Held Particle Counter	1	As per Mentioned in SHD	M/s. Allied Solutions	TSI Inc. (USA)	9310-02	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
3	DOUBLE WING MANUAL DOOR FOR CLEAN CORRIDOR WITH ACCESS CONTROL	1	As per Mentioned in SHD	M/s. Allied Solutions	INFIMED Sp. z o.o (Poland)	MD-SSB-304 SW1-105210	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
4	ENDO-Scope	1	As per Mentioned in SHD	M/s. Allied Solutions	-	AQV A-5-1 ENO	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
5	UV-C AIR DISINFECTION FOR AIR DUCT	1	As per Mentioned in SHD	M/s. Allied Solutions	Sanivox Inc. (Canada)	BIOM-10-40	40	-	-	6	0	-	-	-	0	4	2	4	3	3	10	-	-	-	0	5	77	Qualified				
INDIVIDUAL ITEM LIST																																
1	ANESTHESIA MACHINE WITH VENTILATOR	1	As per Mentioned in SHD	M/s. Nour International	Penlon (UK)	Prima 465	-	30	-	6	4	-	-	-	-	4	2	4	5	5	10	-	-	-	0	0	70	Qualified				
2	PATIENT MONITOR FOR OPERATION THEATER	1	As per Mentioned in SHD	M/s. Nour International	Nihon Kohden	BSM 2565	40	-	-	6	4	-	8	-	-	4	2	4	5	5	10	-	-	-	0	0	88	Qualified				
3	PORTABLE MONITOR	1	As per Mentioned in SHD	M/s. Nour International	Trionara (Sweden)	Vitas 4+	40	-	-	6	4	-	8	-	-	4	2	4	5	5	10	-	-	-	0	0	88	Qualified				
4	VASCULAR DOPPLER	1	As per Mentioned in SHD	M/s. Biologic Medical Systems	Huntleigh Health Care Ltd. (UK)	Dopplex DMX	40	-	-	0	0	10	-	-	-	2	2	3	1.6	0	-	7	-	-	-	10	-	75.6	Qualified			
5	PATIENT WARMER (WATER BASED)	1	As per Mentioned in SHD	M/s. Nour International	Keewell Medical Technology (China)	KPW4000	40	-	-	0	0	-	-	-	0	4	2	4	3	0	-	-	-	-	10	0	73.3	Qualified				
6	BLOOD FLUID WARMER	1	As per Mentioned in SHD	M/s. Nour International	Keewell Medical Technology (China)	QW600	40	-	-	0	0	-	-	-	0	4	2	4	3	0	-	-	-	-	10	0	73.3	Qualified				
7	STERILIZATION UNIT	1	As per Mentioned in SHD	M/s. Nour International	Silber Medical (Japan)	CaruMax 2150	40	-	-	6	0	-	8	-	-	4	2	4	3	0	-	-	-	-	0	0	74	Qualified				



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							Fully compliant with the required tender specifications (Product demonstration previous to technical evaluation) (10 marks)	Product demonstration previous to technical evaluation (10 marks)	Product demonstration previous to technical evaluation (10 marks)	Three marks for each Foreign Trained Overseas Engineer with PEC Registration in South for the quoted product (10 marks)	Three marks for each Foreign Trained Overseas Engineer with PEC Registration in South for the quoted product (10 marks)	Three marks for each Foreign Trained Overseas Engineer with PEC Registration in South for the quoted product (10 marks)	Three marks for each Foreign Trained Overseas Engineer with PEC Registration in South for the quoted product (10 marks)	Three marks for each Foreign Trained Overseas Engineer with PEC Registration in South for the quoted product (10 marks)	Three marks for each Foreign Trained Overseas Engineer with PEC Registration in South for the quoted product (10 marks)	Three marks for 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Item #: 01

Name of Item: Powder Coated SS304 Modular Wall Panel System with lead lining for Hybrid OT

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o. (Poland)
Model	WP.SSP.3041
Specifications:	
1. STAINLESS STEEL wall panel system of sheet thickness min 1 mm or better.	✓
2. Powder coated in antimicrobial RAL color of user choice	✓
3. Invisible mounting of the panel to the substructure with screws.	✓
4. Panels thickness 20-22mm glued on to the back with 12-14mm thick gypsum sheet	✓
5. Must allow easy assembling/ dismantling of for future changes on the back of wall panel.	✓
6. Galvanized steel U-profile sub-structure should be used for connection to concrete elements of the building and wall panels	✓
7. Substructure system must allow for installation of medical gases, and services on back.	✓
8. Galvanized steel coved corner panels must be made of one steel sheet to avoid bacteria colonies and easy cleaning. Must be smoothly integrate with the wall panels on the sub-structure to give perfect finishes between wall to wall and wall to ceiling connections.	✓
9. Wall to wall and wall to ceiling connections Should be rounded / coved made of stainless-steel sheet powder coated finishing Like the wall panels and smoothly integrated with the wall panels on the sub-structure assembled similar like wall panels with screws covered with removable silicone gasket.	✓
10. Corner panels (inner and outer) are made of one steel sheet.	✓
11. 5-6 mm gaps for screws covered with removable silicone hermetic seal resistant to UV, detergents, bactericidal products, water, fire resistance, steam and chemicals used to sterilize Operation Theater	✓
12. Floor skirting are made of galvanized steel sheet of appropriate thickness with base height 100mm or better	✓
13. Service Panel: A removable element of 200m is provided for the on-wall utility and service outlets in contrast	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	✓

**MUHAMMAD FAHEEM**  
**Ph**  
**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

**Dr. M. Yousaf Memon**  
**Consultant and Head of**  
**Interventional Radiology**  
**MBBS, DMRD, FRCR2A, EDIR VIR**  
**SMBB Institute of Trauma Karachi**

**PROF. SADQA AFTAB**  
**Department of Anesthesia & ICU**  
**SMBB Institute of Trauma**  
**Dow University of Health Sciences**

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**



Item #: 01

Name of Item: Powder Coated SS304 Modular Wall Panel System with lead lining for Hybrid OT

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp. z o.o. (Poland)
Model	WP.SSP.3041
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day, then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN

Member - PC

Bio-Medical Engineer

SMBB Institute of Trauma, Karachi

MR. MUHAMMAD IBRAHIM MEMON

Member - PC

Deputy Secretary (PM&I),

Health Department, Govt. of Sindh

PROF. SADOQA AFTAB

Chairperson - PC

HOD ICU & Anesthesiology Department,

SMBB Institute of Trauma, Karachi

PROF. DR. BADDARUDDIN SAHITO

Member - PC

Head of the Department of Orthopaedic Surgery,

Dow University of Health Sciences &

Dr. Ruth K.M.Pfau Civil Hospital, Karachi

MR. BILAL HIREES

Member - PC

Manager Supply Chain Management,

SMBB Institute of Trauma, Karachi

DR. YOUSUF MEMON

Member - PC

HOD Interventional Radiology,

SMBB Institute of Trauma, Karachi

Consultant and Head of

Interventional Radiology

MBBS, DMRD, FRCS, A, EDIR, VIR

SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID # T00518-23-0005

TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL: 14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 02

Name of Item: **Decorative Glass Wall Panels with Picture for Hybrid Operation Theaters (1 Wall of OT)**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp. zo o. (Poland)
Model	WP.DGP.0001
Specifications:	
1. 5mm or better tempered glass with layer of 0.1mm Self-adhesive PVC sheet with digital picture or RAL color pallet and fused with stainless steel panel of minimum thickness 1mm.	✓
2. Panel must allow for invisible mounting of the panel to the substructure with screws.	✓
3. Panels thickness 20-22mm glued on to the back with 12-14mm thick gypsum sheet.	✓
4. Must allow easy assembling/ dismantling of for future changes on the back of wall panel.	✓
5. Galvanized steel U-profile sub-structure is used for connection to concrete elements of the building and wall panels	✓
6. Substructure system must allow for installation of medical gases, and services on back.	✓
7. Stainless steel coved corner panels must be made of one steel sheet to avoid bacteria colonies and easy cleaning. Must smoothly integrated Must be smoothly integrate with the wall panels on the sub-structure to give perfect finishes between wall to wall and wall to ceiling connections.	✓
8. 5-6 mm gaps for screws covered with removable silicone hermetic seal resistant to UV, detergents, bactericidal products, water, steam and chemicals used to sterilize Operation Theater Floor skirting is made of galvanized steel sheet of appropriate thickness with base height 100mm	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% No Down Time	✓

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
MBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**MUHAMMAD FAHEEM**  
Ph  
SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SADOQA FTAB**  
Department of Anesthesiology & ICU  
SMBB Institute of Trauma  
Dow University of Health Sciences



Item #: 02

Name of Item: **Decorative Glass Wall Panels with Picture for Hybrid Operation Theaters (1 Wall of OT)**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp.zo.o. (Poland)
<b>Model</b>	WP.DGP.0001
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
Ph  
MR. MUHAMMAD FAHEEM  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

**MR. BILAL IBREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**PROF. SADIQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

**MR. MUHAMMAD IBRAHIM MEMON**  
Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

**PROF. DR. BADDARUDDIN SAHITO**  
Member - PC  
Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

**DR. YOUSUF MEMON**  
Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi  
**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCS(A), EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 03

Name of Item: **SURGEON CONTROL PANEL WITH TOUCH SCREEN**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o. (Poland)
Model	OPERA
Specifications:	
Surgeon Control Panel with minimum 21" or more multifunction control touch screen with a resolution min. 1024 x 768,	✓
SCP designed to ensure efficient work of medical personnel with comfort.	✓
<b>FEATURES</b>	
1. Digital Real Time & Date	✓
2. Elapsed Timer	✓
3. Surgical Light Control along with camera control	✓
4. Peripheral & RGB Light Control	✓
5. Door Access Control	✓
6. Real Time Temperature and Humidity control of HVAC system and should be integrated to Digital control of the HVAC system	✓
7. Real Temperature and humidity Run time display and should be integrated to Digital control of the HVAC system	✓
8. HVAC filter and HEPA Filter status and should be integrated to Digital control of the HVAC system	✓
9. Room and Laminar air flow differential pressure monitoring and should be integrated to Digital control of the HVAC system	✓
10. Future Upgradable	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	✓
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓

**MUHAMMAD FAHEEM**  
**Ph**  
**SMBB Institute of Trauma**

Page 1 of 2

**HAMMAD HUSSAIN**  
**Blomedical Engineer**  
**SMBB Institute of Trauma**

**Dr. M. Yousuf Memon**  
**Consultant and Head of**  
**Interventional Radiology**  
**MBBS, DMRD, FRCA, EDIR VIR**  
**SMBB Institute of Trauma Karachi**

**PROF. SADDQA AFTAB**  
**Department of Anesthesia & ICU**  
**SMBB Institute of Trauma**  
**Durr University**



Item #: 03

Name of Item: **SURGEON CONTROL PANEL WITH TOUCH SCREEN**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o. (Poland)
Model	OPERA
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN

Member - PC

Bio-Medical Engineer

SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**

Member - PC

Pharmacist

SMBB Institute of Trauma, Karachi

MR. BILAL DREES

Member - PC

Manager Supply Chain Management,

SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADQA AFTAB

Chairperson - PC

HOD ICU & Anesthesiology Department,

SMBB Institute of Trauma, Karachi

**SMBB Institute of Trauma**  
Dow University of Health Sciences

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SMBB Institute of Trauma, Karachi

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Consultant and Head of

Interventional Radiology

MRBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR

SMBB Institute of Trauma Karachi



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PPMS ID #

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TENDER REFERENCE #

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DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

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**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 04

Name of Item: STAINLESS STEEL MEDICAL CABINET FOR STORAGE

Quantity Required: 02

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o. (Poland)
Model	MC-65.3
Specifications:	
Surgeon Control Panel with minimum 21" or more multifunction control touch screen with a resolution min. 1024 x 768,	✓
SCP designed to ensure efficient work of medical personnel with comfort.	✓
FEATURES	
1. The cabinet body must be stainless steel 304 1mm or better thick and self-supporting.	✓
2. Smooth body with no edges and welded on all sides and no inside frames and rivets etc.	✓
3. Cabinet easy to integrate and completely flushed with wall panel system.	✓
4. The cabinet body and doors are flushed with wall panel surface.	✓
5. Cabinets are sealed with a hermetic removable silicone seal with antibacterial silver ions additive	✓
6. Double wing Cabinets door with self-closing stainless-steel hinges	✓
7. Wide angle opening door to min. 120° or better.	✓
8. Doors with Safe Glass, fitting in double steel sheet window frame.	✓
9. Doors window with safe glass, min. 6 mm thick, smooth door edges, no rivets, screws, etc.	✓
10. Must be zero dirt penetration. Equipped with rubber seals, fixed (pushed in) on the door wing (using adhesives is not allowed).	✓
11. Stainless steel 304, 1mm thick Height adjustments shelves.	✓
12. Back wall and shelves shall be supported from bottom by trapeze profile to avoid bulging of the steel.	✓
13. Height adjustable feet to allow for leveling of the cabinet.	✓
14. All edges are rounded and safe to prevent bacteria colonies and easy cleaning.	✓
15. Cabinet door hinges must be durable External Dimensions – 1200 x 450 x 2100 mm or as per site requirement	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	✓

**MUHAMMAD FAHEEM**

Ph

**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MRBS, DMRD, FRCR, A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SAZDCA AHMED**  
 Department of Radiology & I  
 Sindh Institute of Medical Sciences  
 Dow University of Health Sciences

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma Karachi



Item #: 04

Name of Item: STAINLESS STEEL MEDICAL CABINET FOR STORAGE

Quantity Required: 02

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o. (Poland)
Model	MC-65.3
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

MR. MUHAMMAD FAHEEM  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

MR. BILAL IDREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADQA AFTAB  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi  
Department of Anesthesiology & ICU  
SMBB Institute of Trauma  
Dow University of Health Sciences

MR. MUHAMMAD IBRAHIM MEMON  
Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

PROF. DR. BADDARUDDIN SAHITO  
Member - PC  
Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &

DR. YOUSUF MEMON  
Member - PC  
Consultant and Head of  
Interventional Radiology,  
SMBB Institute of Trauma, Karachi  
MBBS, DMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR**  
**SMBBIT**

Item #: 05

Name of Item: **CLEAN ROOM METAL CEILING SYSTEM FOR OPERATION THEATERS**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp.zo.o. (Poland) / FURAL
<b>Model</b>	CC.GSP.0001-6060 I 20120
<b>Specifications:</b>	
Galvanized steel 0.7-0.8mm thick clip-in ceiling system with antimicrobial powder coated front surface in specified color.	✓
1. Rounded/ coved wall to ceiling connection to avoid bacteria colony growth.	✓
2. Smooth integration with ceiling fixtures and Laminar flow with hygienic finish	✓
3. Galvanized Steel allowing easy and quick assembling / dis-assembling.	✓
4. Galvanized steel substructure connected by clamps, made of supporting and cross profiles for stable construction.	✓
5. Suspension points correspond with ceiling grid and infrastructure installation.	✓
6. Easy removal and replacement of ceiling panels.	✓
7. Grid size of 600 x 1200 mm or 600x600mm	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>8. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓

**MUHAMMAD FAHEEM**

Ph

**SMBB Institute of Trauma**

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

Page 1 of 2

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR<sub>2A</sub>, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SAADIA AFTAB**  
 Department of Residents & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences



Item #: 05

Name of Item: **CLEAN ROOM METAL CEILING SYSTEM FOR OPERATION THEATERS**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o. (Poland) / FURAL
Model	CC.GSP.0001-6060 I 20120
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

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Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

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Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

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Chairperson - PC  
HOD ICU & Anesthesiology Department,  
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Dow University of Health Sciences

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Head of the Department of Orthopaedic Surgery,  
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SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
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**TECHNICAL EVALUATION**

PPMS ID #

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Item #: 06

Name of Item: **AUTOMATIC SLIDING DOOR FOR OPERATION THEATER WITH LEAD SHIELDING IN DOOR LEAF**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	Imported
Model	Imported
Specifications:	
1. Door wing with 1.5mm or better Stainless Steel 304, fully closed construction	✓
2. Minimum 40mm brushed finish or powder coated as per end user requirements	✓
3. "C" shaped long handles Stainless Steel from external side and recessed type handle from inside	✓
4. Stainless Steel 304, 1.5mm thick sheet Door Frame SS finished or power coated in any RAL color. Made in inner and outer parts to smoothly mix with the concrete wall and modular system.	✓
5. Inspection electronic fogging Window 400 x 600 mm or better double glazed with operating switch on door frame WITH Lead shielding.	✓
6. 2 pair photocell sensors in door frame	✓
7. Long bar switch on both sides of door for opening.	✓
8. Touch less sensors are on both side of the door for ease of opening after scrubbing.	✓
9. Stainless Steel switch with LED Ring light Symbol provided inside and outside of the door frame for full, partial and permanent opening. Program key must be provided for program selection.	✓
10. Imported door drive of famous brand BESSAM or DORMA that should have the ability to be program for full and half opening	✓
11. Integrated back-up module to open the door wing in case of power failure.	✓
12. Door Dimension – 1500 x 2100 mm or as per the size requirements	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below:	
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓

**MUHAMMAD FAHEEM**

Ph

**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

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**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR2A, EDIR VIR  
 SMBB Institute of Trauma Karachi

PROF. SAJIDA AHMED  
 Department of Health & Safety  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma, Karachi



Item #: 06

Name of Item: AUTOMATIC SLIDING DOOR FOR OPERATION THEATER WITH LEAD SHIELDING IN DOOR LEAF

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	Imported
Model	Imported
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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MUHAMMAD FAHEEM  
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SMBB Institute of Trauma  
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SMBB Institute of Trauma, Karachi

MR. BILAL IDREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

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SMBB Institute of Trauma, Karachi

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Interventional Radiology  
MRBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

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Item #: 07

Name of Item: **AUDIO VIDEO MANAGEMENT, DOCUMENTATION & COMMUNICATION**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	KARLZ STORZ (Germany)
<b>Model</b>	OR1 Air
<b>Specifications:</b>	
The system offers 4K UHD A/V distribution inside the OR, documentation and audiovisual communication within the hospital environment, designed to be operated from the most compact Device. System should offer brilliant surgical image quality and content management in up to 4K UHD, from the endoscope to the Hospital Information System. Ensures connectivity and management of all its elements – cameras, video sources, monitors and network connected participants	✓
<b>TECHNICAL FEATURES:</b>	
1. A/V Management: Video distribution in the operating room – in 4K UHD, 3D and FULL HD.	✓
2. Documentation: Content management in up to 4K UHD – from the endoscope to the HIS. Fully integrated documentation solution in up to 4K UHD. Data security through automated data transfer via HL7 and DICOM.	✓
3. Communication video streaming and audio talkback with bidirectional telestration for teaching activity. Real time high-definition video streaming to share the surgical image with other consultants or an auditorium in a secure and privacy protected environment. Seamless communication is ensured by audio talkback function.	✓
4. Telestration: Telestration on the touch screen inside the Operation Room for teaching activity.	✓
5. Video Routing and Switching with Picture and Picture: Flexible 8x8 video management system in 4K UHD, 3D and FULL HD including PiP/PaP functionality with control through touch screen.	✓
6. Integration components should be installed on the Surgical Equipment Pendant.	✓
<b>TECHNICAL DATA (AV SYSTEM):</b>	
1. Video inputs: 5x 12G SDI / 3x HDMI 2.0	✓
2. Outputs: 6x 12G SDI / 2x HDMI 2.0	✓
3. USB: 4x USB 3.0 / 1x USB 2.0	✓
4. LAN: 2x Ethernet	✓
5. Audio: 1x Audio in / 1x Audio out	✓
6. Degree of protection: Ipx0	✓
7. Protection class: I	✓
<b>TECHNICAL DATA (DOCUMENTATION SYSTEM)</b>	
1. Video inputs: 1x DP 1.2a / 1x HDMI 2.0	✓
2. Outputs: 1x DP 1.2a / 1x HDMI 2.0	✓
3. Interfaces: DICOM, HL7	✓
4. Image formats: BMP, JPG, JPNG	✓
5. Video formats: MPEG-4, MPEG-2, MOV	✓
6. Hard Disk Capacity: 2TB or more	✓
7. CPU: core i7 or better	✓
8. RAM: 16 GB or more	✓
9. Operating System: Windows 10	✓

**MUHAMMAD FAHEEM**

**SMBB Institute of Trauma**

**MUHAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

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Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
SMBB Institute of Trauma Karachi

**FRANCIS ADOLPHUS**  
Department of Anaesthesia & ICU  
SMBB Institute of Trauma  
Dow University of Health Sciences

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi



Item #: 07

Name of Item: **AUDIO VIDEO MANAGEMENT, DOCUMENTATION & COMMUNICATION**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	KARLZ STORZ (Germany)
Model	ORI Air
<b>System Should include Following Items along with their Connectivity with the Main System:</b>	
1. 21" or more Touchscreen should be Wall Mounted with Keyboard and Mouse	✓
2. Wireless Microphone Headset for Surgeon inside the Operation room along with its connectivity with the integration system	✓
3. HD Room Camera 3G-SDI/DVI for Operation room view along with its connectivity with the integration system, should be controllable from 21inch Touch Screen	✓
4. Ceiling Loudspeaker (pair) for Each Operation room along with its connectivity with the integration system	✓
5. Connectivity for Angio display	✓
6. Connectivity for Room Camera	✓
7. Connectivity for Ceiling Mounted Speaker	✓
8. Connectivity for Wireless Microphone	✓
9. Connectivity with Digital Multiview	✓
10. Connectivity with 2 Monitor on Spring Arm of OT Light	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>8. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
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SMBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**Dr. M. Yousuf Mehmood**  
Consultant and Head of  
Interventional Radiology  
MBBS, FRCS, FRCR, A&E, ED, IR-VIR  
SMBB Institute of Trauma Karachi

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**PROF. SADDIA AFTAB**  
Department Of Anaesthesia & ICU  
SMBB Institute of Trauma  
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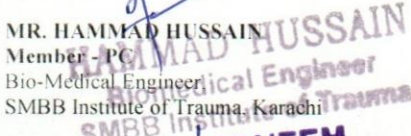


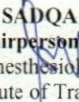
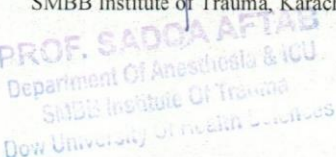
Item #: 07

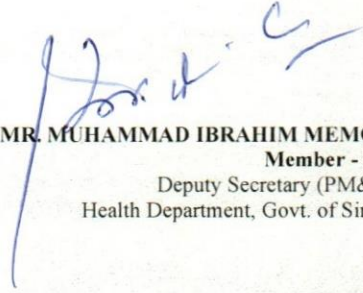
Name of Item: **AUDIO VIDEO MANAGEMENT, DOCUMENTATION & COMMUNICATION**


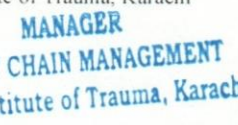
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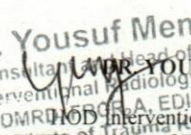
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Make	KARLZ STORZ (Germany)
Model	ORI Air
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
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Member - PC  
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SMBB Institute of Trauma, Karachi  
  
**MUHAMMAD FAHEEM**  
Ph  
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SMBB Institute of Trauma, Karachi

  
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Chairperson - PC  
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SMBB Institute of Trauma, Karachi  
  
**PROF. SADQA AFTAB**  
Department Of Anesthesiology & ICU  
SMBB Institute Of Trauma  
Dow University of Health Sciences

  
**MR. MUHAMMAD IBRAHIM MEMON**  
Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh  
  
**PROF. DR. BADDARUDDIN SAHITO**  
Member - PC  
Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

  
**MR. BILAL HREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi  
  
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

  
**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
Member - PC  
MBBS, DMRD, FRCR, A, EDIR  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 08

Name of Item: **DIGITAL MULTIVIEWER WITH PACS CONNECTIVITY**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	KARLZ STORZ (Germany)
Model	WM103
Specifications:	
The 55" Digital Viewer OR Workstation, digital viewer 55" available in Recessed / Built-in type, integrate able with the modular wall system and wall mount system and viewer can also be utilized in combination with Integration System.	✓
Any integrated imaging device, such as the Endoscopic Camera or C-arm, can be routed through the integration system and displayed on the Digital Viewer. Any image retrieved from the Digital Viewer (i.e. DICOM images) can be sent to the integration system, to be: displayed on the boom-mounted screens, archived, or transmitted to the Auditorium.	✓
<b>Technical Specifications</b>	
1. Should be Available in Recessed / Built-in type, integrate able with the modular wall system and wall mount system	✓
2. Antimicrobial powder coating	✓
3. 1x 55" display DICOM preset	✓
4. PC unit	✓
5. MDD safety electronics	✓
6. Network isolator	✓
7. Short hub keyboard incl. touchpad	✓
8. Silicone mouse (5 keys)	✓
9. 2x USB 3.0 ports	✓
10. Switchover for PACS/ORI	✓
11. Antireflective safety glass	✓
12. Dimensions for wall inset in mm (w x h x d): 1110 x 870 x 120 or as per site requirement	✓
13. Should be Supplied from the Same Manufacturer of Integration for compatibility and Good Quality images	✓
14. With Built-in Video Conferencing Feature on Zoom or team.	✓
<b>Warranty and Maintenance Period:</b>	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below:	✓

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

**Dr. M. Yousuf Memon**  
**Consultant and Head of**  
**Interventional Radiology**  
**MBBS, DMRD, FRCR<sub>2A</sub>, EDIR VIR**  
**SMBB Institute of Trauma Karachi**

**FOR EMBB**  
**Department of Anesthesia &**  
**SMBB Institute of Trauma**  
**New University of Health S**



Item #: 08

Name of Item: **DIGITAL MULTIVIEWER WITH PACS CONNECTIVITY**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	KARLZ STORZ (Germany)
Model	WM103
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks	40
2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks	
3. Above 10% / Non-compliant to required specifications (Disqualified).	

**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**PROF. SADQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

**MR. MUHAMMAD IBRAHIM MEMON**  
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Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

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Item #: 09

Name of Item: **MANUAL SINGLE LEAF HINGED DOOR**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp. zo.o (Poland)
<b>Model</b>	MD.SSB-304.SW1-105210
<b>Specifications:</b>	
Door wing with 1.5mm or better Stainless Steel 304 fully closed construction.	✓
Option of Door wing stainless steel color or RAL Powder coated with antimicrobial properties according to user choice	✓
Hermetic sealed door to prevent foreign bodies when closed	✓
Stainless Steel handles with key lock from both sides.	✓
Stainless Steel 304 1.5mm or better thick sheet Door Frame brushed finished or power coated in any RAL color.	✓
Best quality Door Closer and hinges	✓
Door Dimension – 1100 x 2100 mm	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	

**MUHAMMAD FAHEEM**

**Ph**  
**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

Page 1 of 2

**Dr. M. Yousuf Memon**  
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 SMBB Institute of Trauma Karachi

**PROF. SADR KHAN**  
 Department of Anaesthesia & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

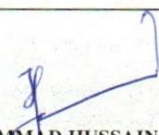



Item #: 09

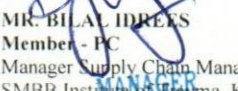
Name of Item: **MANUAL SINGLE LEAF HINGED DOOR**

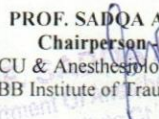
Quantity Required: **Operation Rooms (As per site requirement)**

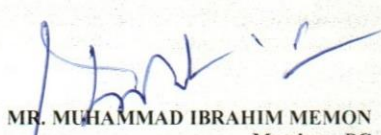
Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp. z o.o (Poland)
Model	MD.SSB-304.SW1-105210
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
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Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

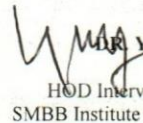
  
**MUHAMMAD FAHEEM**  
Member - PC  
Physician  
SMBB Institute of Trauma, Karachi

  
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Item #: 10

Name of Item: RGB CLEAN ROOM PERIPHERAL LIGHTS FOR OPERATION THEATERS

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland) / ATENA LUX (Italy)
Model	438100234
Specifications:	
1. Suspended light system to smoothly integrate with modular and plaster-board suspended ceilings,	✓
2. Highly efficient LED source.	✓
3. Luminary body made with steel sheet and powder coated in white.	✓
4. Aluminum free frame.	✓
5. Hermetic sealed body to prevent foreign bodies when closed	✓
6. Resistant to disinfectants and UV radiation with white-coated steel frame	✓
7. Lamp: LED	✓
8. Power: 54W or better	✓
9. Protection Class: IP65	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓

**MUHAMMAD FAHEEM**

Ph

**SMBB Institute of Trauma**

**Biomedical Engineer**  
**SMBB Institute of Trauma**

Page 1 of 2  
**Dr. M. Yousuf Memon**  
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 SMBB Institute of Trauma Karachi

**PRD. P. AFTAB**  
 Department of Anesthesia & CC  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**



Item #: 10

Name of Item: **RGB CLEAN ROOM PERIPHERAL LIGHTS FOR OPERATION THEATERS**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland) / ATENA LUX (Italy)
Model	438100234
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAYIMAD HUSSAIN

Member - PC

Bio-Medical Engineer

SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
PR  
MR. MUHAMMAD FAHEEM  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

MR. BILAL IDREES

Member - PC

Manager Supply Chain Management,

SMBB Institute of Trauma, Karachi

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADOA AFTAB

Chairperson - PC

HOD ICU & Anesthesiology Department,

SMBB Institute of Trauma, Karachi

**PROF. SADOA AFTAB**  
Department Of Anesthesiology & ICU  
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Item #: 11

Name of Item: **STATIC DISSIPATIVE HOMOGENOUS VINYL FLOORING FOR OPERATION THEATERS**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	FORBO Flooring Systems (Switzerland)
Model	Colorex SD
<b>Specifications:</b>	
1. Static dissipative homogenous vinyl flooring for OT's and Non-Homogenous for corridor	✓
2. Tile size: 615mm x 615mm for OT	✓
3. Size: Roll for corridor	✓
4. Minimum thickness: 2 mm or better	✓
5. Made with slicing from highly compressed homogenous solid block material with conductive veins	✓
6. Electrical resistance of $106 \leq R \leq 108$ ohms (IEC 61340-4-1 / EN 1081 (100V) ANSI/ESD 7.1) Bacteriostatic in accordance with SNV 195 920,	✓
7. Chemical resistant ISO 26787 / EN 423,	✓
8. Slip resistance rating is R9 according to DIN 51130.	✓
9. Floor must give hygienic and outstanding finishes suitable for operating rooms.	✓
10. Coved edges at the wall with factory molded corners	✓
11. Able to connect with grounding point inside the operation theater	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	

**MUHAMMAD FAHEEM**

Ph

**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
 Page 1 of 2  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SAQIB AHMED**  
 Department of Anesthesiology & ICU  
 SMBB Institute of Trauma  
 Dow University Of Health Sciences

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma, Karachi

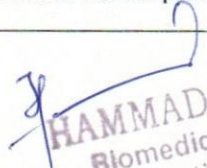


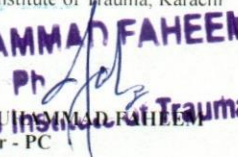
Item #: 11

Name of Item: **STATIC DISSIPATIVE HOMOGENOUS VINYL FLOORING FOR OPERATION THEATERS**

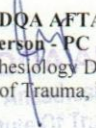
Quantity Required: **Operation Rooms (As per site requirement)**

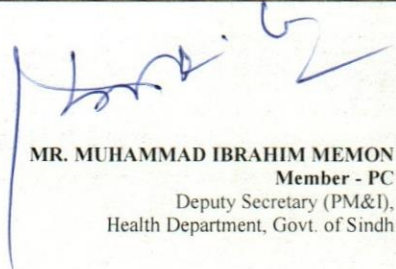
Name of Firms	M/s. Allmed Solutions
<b>Make</b>	FORBO Flooring Systems (Switzerland)
<b>Model</b>	Colorex SD
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
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Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

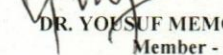
  
**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

  
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Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

  
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Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi  
Dow University of Health Sciences

  
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**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 12

Name of Item: **HOMOGENOUS VINYL FLOORING FOR CONOTRL AND OTHER AREA**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	FORBO Flooring Systems (Switzerland)
<b>Model</b>	Sphera Element
<b>Specifications:</b>	
1. homogenous vinyl flooring for OT's and non-homogenous for corridor	✓
2. Tile size: Roll for Control & Equipment room	✓
3. Size: Roll for corridor	✓
4. Minimum thickness: 2 mm	✓
5. Chemical resistant ISO 26787 / EN 423,	✓
6. Slip resistance rating is R9 according to DIN 51130.	✓
7. Floor must give hygienic and outstanding finishes suitable for operating rooms.	✓
8. Coved edges at the wall with factory molded corners	✓
9. Able to connect with grounding point inside the operation theater	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. <b>Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.</b>	✓

**MANAGER**  
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**MUHAMMAD FAHEEM**  
**Ph**  
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**PROF. SAJIDA APRIAN**  
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Name of Firms	M/s. Allmed Solutions
Make	FORBO Flooring Systems (Switzerland)
Model	Sphera Element
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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Bio-Medical Engineer,  
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HOD Interventional Radiology,  
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Consultant and Head of  
Interventional Radiology  
MRBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID # T00518-23-0005

TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL: 14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 13

Name of Item: **HYBIRD LAMINAR AIR FLOW CEILING**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	MANN+HUMMEL Vokes Air GMBH (Austria)
<b>Model</b>	FM3-P-90-H14
<b>Specifications:</b>	
to produce a germ- and particle lean area through a low turbulence displacement flow. The system is specially designed and suited for the use in Operating Theatres. The requirements of all international standards including e. g. DIN 1946-4, ÖNORM H6020, SWKI VA 105-01 and HTM 03- 01 should be fulfilled.	✓
The laminar flow system should consist of 3 separate parts which are specially designed for the installation in Hybrid OT with ceiling rail system (e.g. Siemens, Philips, etc.)	✓
<b>Technical Specification:</b>	
1. Pressure chamber, 3 parts Air tight pressure chamber built of aluminum sheet, material thickness min. 2.0 mm Smooth inner surfaces, no processing marks due to reversed housing wall production, therefore easy to clean and disinfect Stiffening profiles are positioned on the top outside for hygienic reasons. Laterally supply air connections completed as flange made out of Aluminum for the connection to the air ducts Two special screw connections for temperature probe and pressure probes aside the air distribution box	✓
2. Support frame system to take up the pressure chamber, all required suspensions. Made out of extruded anodized Aluminum profiles with special aerosol tight counter screw connections. The profile system is carried out complete smooth on the top and at the inner surface.	✓
3. Filter mounting frame made out of anodized Aluminum profile with integrated profile- frames for the placement of the HEPA filter panels are gastight welded. All components for the integration of the filter elements consists of stainless, respectively corrosion-proof materials.	✓
4. High efficiency particulate air filter (HEPA) The filter medium should consist of finely pleated micro-glass fiber with thread spacers. The filter medium and frame are tightly interconnected by means of a 2-component PU casting. The filters have a frame optimized for huge filter surface and a correspondingly long service life as well as low pressure drops. The sturdy filter frame consists of an anodized aluminum profile and is equipped with a one-piece foamed gasket. A grip protection made of synthetic-resin coated aluminum expanded metal grid (color RAL 9016) is located on both sides of the filter medium. Each particular air filter insert is individually tested for leaks in our test facility. The corresponding test certificates are issued and enclosed with the documentation. The HEPA-filter exchange happens from the inside of the room after dismantle the CG-Distributor.	✓
5. Air Distributor (Laminarization) CG Distributor frame designed of flow-optimized aluminum profiles, double-sided covered with special precise polyester fabric; subdivided in separate large area elements; downwards removable. The individual CG Distributor frames get mounted by use of clip profiles without any screws or tools. The optimized Aluminum profiles yield in connection bar widths of not more than 15 mm to avoid disturbances of the low turbulence air flow.	✓
6. Air Outlet The bottom layer of the CG Distributor forms the effective air outlet and is flush with the intermediate ceiling. Only the material thickness of the clip profile sticks out the bottom layer.	✓
7. LED Priming illumination	✓
installed in the air distributor box above the transparent CG Diffuser.	✓
Constructed as 3-distribution directions LED light baffle made out of steel	✓

**MUHAMMAD FAHEEM**

Ph  
**SMBB Institute of Trauma**

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**AMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

Page 1 of 4  
**Dr. M. Yousuf Memon**  
Consultant and head of  
Interventional Radiology  
MBBS, DMRD, FRCS(A), EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SAJJAD AHMED**  
Department of Anesthesiology & ICU  
SMBB Institute of Trauma  
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Item #: 13

Name of Item: **HYBIRD LAMINAR AIR FLOW CEILING**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	MANN+HUMMEL Vokes Air GMBH (Austria)
<b>Model</b>	FM3-P-90-H14
powder coated in white RAL 9016 in premium quality design. LED life span:	✓
55000h with high quality electronic control gear for current driven LED's	✓
DALI, harmonized with the OT table control system.	✓
Because of the 3-distribution directions by special lens, the illumination	✓
uniformity over the whole CG Diffuser is very homogenous.	✓
Luminaire luminous flux: 6342lm	✓
Connection power: 52,4 Watt	✓
Luminaire efficiency: 121lm/W	✓
Luminous color: 4000K	✓
Color rendering Ra >= 90	✓
Color difference perception: 3 MacAdam	✓
EEI-class: A++	✓
Number of light baffles: 6 pcs.	✓
Due to the variable adjustment of the height, the LED baffle can be	✓
adapted to the individual HEPA filter heights.	✓
Wiring on the outside of the air distributor box with screened cables, per	✓
lamp separated mounted on a common terminal block, protection class IP	✓
66 in the cabinet. The terminal block is accessible from the inside of the	✓
room, after removing the CG Distributor.	✓
8. Testing port for LAF testing	✓
At the outer edge of the support frame system an enameled panel	✓
(varnished RAL 9016) is attached for following tests:	✓
- Aerosol feeding and withdrawal (Leakage test; DEHS test)	✓
- Differential pressure of HEPA filter panels	✓
- Ambient pressure (false ceiling cavity).	✓
The testing port consists of nickel-plated brass bulkhead fittings with tight	✓
sealing plugs with O-ring gasket and disinfectant proof inscriptions. The	✓
tubing is factory delivered by PUN tubing.	✓
The testing and service measurements are executed without dismantle the	✓
9. CG distributors. The high efficiency particulate air filter and the CG-distributor frames should be mounted	✓
shortly before putting into operation after the final cleaning of the room.	✓
10. Potential balance The connection for the potential balance is mounted on the outside of the air distributor	✓
box.	✓
11. Contact angle at the outer side of the support frame system over the whole length the same clip profiles are	✓
used to connect the intermediate ceiling as at the inner side for mounting the CG Distributor.	✓
<b>Technical Data's</b>	
Air volume (in flow) 8.350 m³/h	✓
Outer dimension (length x width) 2 parts 4165 x 895 mm Middle part 4165 x 799 mm	✓
Sterile air-flow field (length x width) 2 parts 4063 x 793 mm	✓
Middle part 4063 x 697 mm Height of pressure chamber (height) 515 mm	✓
Height of available ceiling space (minimum requirement) 535 mm	✓

**MUHAMMAD FAHEEM**  
Ph  
SMBB Institute of Trauma

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

Page 2 of 4  
**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SAEED APTAB**  
Department of Anesthesiology & ICU  
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Item #: 13

Name of Item: **HYBIRD LAMINAR AIR FLOW CEILING**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	MANN+HUMMEL Vokes Air GMBH (Austria)
<b>Model</b>	FM3-P-90-H14
Average air velocity 0,25 m/s	✓
Average Intensity of illumination right within the range of the sterile air distributor, 120 cm over the floor: $\geq$ 1000 lux	✓
Number of HEPA filters/Type 8 pcs. 915 x 730 mm, 4 pcs. 915 x 634 mm	✓
Filter Class according to EN 1822: H14	✓
Initial pressure drop 60 Pa	✓
Recommended max. pressure drop	✓
before filter change 120 Pa	✓
Filter surface per m <sup>2</sup> face area 38 m <sup>2</sup>	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>8. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓

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Ph  
SMBB Institute of Trauma

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SMBB Institute of Trauma

Page 3 of 4  
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Interventional Radiology  
MRBS, OMRD, FRCR<sub>2</sub>A, EDIR VIR  
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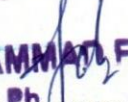
Item #: 13


Name of Item: **HYBIRD LAMINAR AIR FLOW CEILING**

Quantity Required: **01**

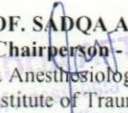
Name of Firms	M/s. Allmed Solutions
Make	MANN+HUMMEL Vokes Air GMBH (Austria)
Model	FM3-P-90-H14
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40


  
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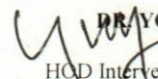
  
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**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 14

Name of Item: **FLUFF SEPARATORS FOR RETURN AIR NEAR CEILING**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	MANN+HUMMEL Vokes Air GMBH (Austria)
<b>Model</b>	OPTIFLU
<b>Specifications:</b>	
Stainless Steel SS 304 with 1mm frame thickness. Stainless steel fluff separator wire mesh in accordance with DIN EN 9044 with rigid stainless-steel frame. Must be easily removable for cleaning and disinfection purposes.	✓
<b>TECHNICAL DATA</b>	
1. Air Flow: as per design of vendor	✓
2. Air Velocity: 2.5 m/s	✓
3. Size: 370x370mm Should be from the same manufacturer of Laminar air Flow	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>8. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. <b>Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.</b>	✓

**MUHAMMAD FAHEEM**

PK

**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR2A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SABBA AFTAB**  
 Department of Radiology  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma, Karachi



Item #: 14

Name of Item: **FLUFF SEPARATORS FOR RETURN AIR NEAR CEILING**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	MANN+HUMMEL Vokes Air GMBH (Austria)
Model	OPTIFLU
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

**MR. MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**PROF. SADIQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi  
Department of Anesthesiology  
SMBB Institute of Trauma  
Dow University of Health Sciences

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Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

**PROF. DR. BADDARUDDIN SAHITO**  
Member - PC  
Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

**DR. MOUSUE MEMON**  
Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi  
Consultant and Head of  
Interventional Radiology  
MRBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
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**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
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Item #: 15

Name of Item: **FLUFF SEPARATORS FOR RETURN AIR NEAR FLOOR**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	MANN+HUMMEL Vokes Air GMBH (Austria)
Model	OPTIFLU
Specifications:	
Stainless Steel SS 304 with 1mm frame thickness. Stainless steel fluff separator wire mesh in accordance with DIN EN 9044 with rigid stainless-steel frame. Must be easily removable for cleaning and disinfection purposes.	✓
<b>TECHNICAL DATA</b>	
1. Air Flow: as per design of vendor	✓
2. Air Velocity: 2.5 m/s.	✓
3. Size: 870x370mm	✓
4. Should be from the same manufacturer of Laminar Air Flow	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below:	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	

**HAMMAD RUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**MUHAMMAD FAHEEM**  
Principal Engineer  
SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A. EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. DR. QAFTAR**  
Department of Anaesthesia & ICU  
SMBB Institute of Trauma  
Dow University Of Health Sciences

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi



Item #: 15

Name of Item: **FLUFF SEPARATORS FOR RETURN AIR NEAR FLOOR**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	MANN+HUMMEL Vokes Air GMBH (Austria)
Model	OPTIFLU
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

**MR. HAMMAD HUSSAIN**

Member - PC

Bio-Medical Engineer,

SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**

Ph

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Member - PC

Pharmacist,

SMBB Institute of Trauma, Karachi

**MR. BILAL THREES**

Member - PC

Manager Supply Chain Management,

SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**PROF. SADIQA AFTAB**

Chairperson - PC

HOD ICU & Anesthesiology Department,

SMBB Institute of Trauma, Karachi

**PROF. SADIQA AFTAB**  
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Member - PC

HOD Interventional Radiology,

SMBB Institute of Trauma, Karachi

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Item #: 16

Name of Item: **HYGENIC AIR HANDLING UNIT**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	ROBATHERM (Germany)
Model	TI Series
Specifications:	
1. Galvanized square steel tubes frame, to avoid thermal bridges and best thermal performance of the casing.	✓
2. Double-skin panels made of galvanized steel sheet, with 50 mm insulation by synthetic profiles for excellent thermal insulation and lowest thermal bridging. Powder-coated surfaces on outside and inside	✓
3. Simple and quick to clean, easy for maintenance with integrated Stainless-Steel drip-tray, 80 mm slope. Smooth, with no depressions.	✓
4. Each section with U shaped base frame of 100mm.	✓
5. SS 304 Laser welded drain pan, integrated into the unit's floor sloped to all sides and a drain connection at its lowest point.	✓
Technical Data of Casing -	
1. Compliant to DIN EN 1886 are acceptable.	✓
2. Thermal Transmittance: Class T2 or better	✓
3. Thermal Bridging: Class TB1 or better	✓
4. Casing Leakage: Class L1(M) or better	✓
5. Filter bypass leakage: Class F9 or better	✓
6. Casing deflection: Class D1/D2 or better	✓
TECHNICAL DATA	
1. Hygienic	✓
2. Floor Inside: SS 304	✓
3. Powder Coated Panel Inside	✓
4. Airflow: 9445-10500m³/h (Should exceed the air volume requirement of Laminar Air Flow & Control room)	✓
5. Air velocity: V1 according to EN13053	✓
6. 2 stage Filtration- G2, F7 & F9	✓
7. Plug fan with European quality EC Motor vibration isolated	✓
8. Operating Voltage: 400 V  Frequency: 50 Hz	✓
9. Protection class / ISO-Class: IP 55 / ISO F	✓
10. DX type coil	✓
11. Coil Type: Copper & fins Aluminum	✓
12. Cooling Coil Media: Refrigerant 407C/410A	✓
13. Cooling Capacity: 30 Tons	✓
14. Built in dehumidifier ducted type as per area humidity calculation	✓
15. Heating Capacity: 26.7 Kw or better Electric Heater: Yes, Built in inside the AHU	✓
16. Outdoor Temperature (summer/winter): 45.0°C / 5°C	✓
17. Indoor Temperature Conditions: 22°C ± 2°C	✓
18. Indoor Relative Humidity Conditions: 45% ± 5%	✓
19. EUROVENT Energy Efficiency Class: A	✓
20. Secondary chill water coil same cooling capacity (optional but mandatory to be quoted).	✓
Note:	<b>MUHAMMAD FAHEEM</b>
Pressure measuring connections at each filter stage with Magnehelic gauges. Measuring pipe with connection to the maintenance side Isolated Duct Connectors, Galvanized Steel Dampers (SA, RA, OA), Terminal box with wiring for fan and electric heaters.	<b>SMBB Institute of Trauma</b>

**MANAGER**  
**APPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

Page 1 of 3


**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SADIQA AHMED**  
Department Of Anesthesia & ICU  
SMBB Institute Of Trauma  
Dow University Of Health Sciences

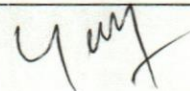


Item #: 16  
Name of Item: **HYGENIC AIR HANDLING UNIT**  
Quantity Required: 01

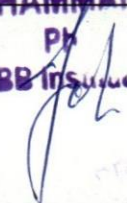
Name of Firms	M/s. Allmed Solutions
Make	ROBATHERM (Germany)
Model	TI Series
The Bidder are required to share the Technical Data Sheet of Ahu from Manufacture along with Drawing & HAP DATA Sheet with the bid.	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
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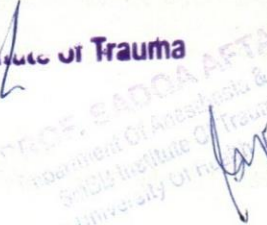
**HAMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma




Page 2 of 3  
**Dr. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi



**MUHAMMAD FAHEEM**  
PH  
SMBB Institute of Trauma



**DR. SADQA AFTAB**  
Department of Anesthesiology & ICU  
SMBB Institute of Trauma  
New University of Karachi - Sindh

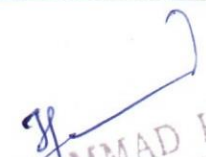



**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi





Item #: 16  
Name of Item: **HYGENIC AIR HANDLING UNIT**  
Quantity Required: 01

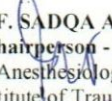
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Make	ROBATHERM (Germany)
Model	TI Series
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

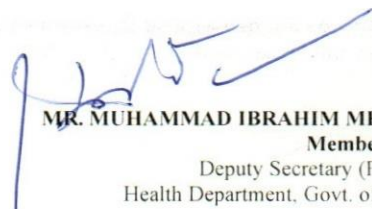
  
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**MUHAMMAD FAHEEM**  
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Pharmacist,  
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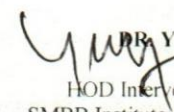
  
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SMBB Institute of Trauma, Karachi

  
**SUPPLY CHAIN MANAGEMENT**  
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Item #: 17

Name of Item: APPARATUS CONTROL PANEL

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	Local Best Quality
Model	Local Best Quality
Specifications:	
Dedicated apparatus control panel to control its respective with components mounted in a logical order based on the sequence of operation. The panel must be equipped with all components as specified by the AHU manufacturer for the satisfactory operation of the Air Handling Unit.	✓
FEATURES	
1. Floor Standing, Powder Coated and Comply to IP-42	✓
2. Proper Ventilation and Door Locking Arrangement.	✓
3. Separate Neutral & Earth Bars/Terminals.	✓
4. Proper Cable dressing, Tagging & Cable tying Arrangement.	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	

**MUHAMMAD FAHEEM**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR, A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**Ph. Gal**  
**SMBB Institute of Trauma**

**PROF. SIDDIQI APT13**  
 Department of Anesthesia & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**



Item #: 17

Name of Item: APPARATUS CONTROL PANEL

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	Local Best Quality
Model	Local Best Quality
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN

Member - PC

Bio-Medical Engineer,

SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
Ph  
SMBB Institute of Trauma

MR. MUHAMMAD FAHEEM

Member - PC

Pharmacist,

SMBB Institute of Trauma, Karachi

MR. BILAL IDREES

Member - PC

Manager Supply Chain Management,

SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADIQA AFTAB

Chairperson - PC

HOD ICU & Anesthesiology Department,

SMBB Institute of Trauma, Karachi

Department of Trauma

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Head of the Department of Orthopaedic Surgery,

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Member - PC

HOD Interventional Radiology,

SMBB Institute of Trauma, Karachi

Interventional Radiology

MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR

SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 18

Name of Item: **DIRECT DIGITAL CONTROLS FOR HVAC SYSTEM**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	Airtek or Johnson Controls or Schneider or Equivalent
Model	Australia, USA, Europe, Japan
Specifications:	
Air handling Unit will be remotely controlled through a Direct Digital Controller for a high level of control of the HVAC system. Able to be connected with building BMS and can be access able for remote monitoring and control. System equipped with Direct digital controller and area Sensor for Temperature & Humidity, inside OT Supplier should ensure provision of following features for DDC control system complete in all respects	✓
1. 1x DDC controller	✓
2. Separate starter signal for heater start stage with modulation	✓
3. 1x Separate starter signal for humidifier	✓
4. 1x Separate starter signal for AHU fan motor	✓
5. 1x humidity & temperature sensor for OR without screen.	✓
6. 1x fan run status sensors	✓
7. 1x duct temperature Sensors	✓
8. 1x low pressure filter sensor for Laminar HEPA Filters pressure differential monitoring	✓
9. 1x low pressure sensor for Room pressure differential monitoring	✓
10. Pressure sensors for monitoring differential pressure monitoring across each filter stage	✓
11. 1x Smoke sensors for smoke status monitoring	✓
12. 1x Fire stat for fire status monitoring.	✓
13. 1x Operation & Monitoring of DDC control system with integration with surgeon control panel of respective OR	✓
14. 1x powerful, high-speed router/gateway to connect control modules to BACnet/IP backbone. Support for BACnet/IP, BACnet over Ethernet, BACnet over ARC156, and BACnet over MS/TP communications	✓
15. Display of respective temperature, humidity, and differential pressure values and filter status for respective AHU.	✓
GENERAL INSTRUCTIONS:	
1. AHU should be independent with absolutely no hard ware or software connectivity or interference with other AHU.	✓
2. Bacnet connectivity for chiller with Network.	✓
3. Central monitoring of network	✓
4. Noise reduction built in duct.	✓
5. HMI with local Display with license	✓
6. Independent Controller for handling Unit with absolutely no sharing with other AHU.	✓
7. All monitoring sensors must be connected to main controller.	✓
8. Standard spare I/O points at least 10-15%	✓
9. Best quality Stranded, BC, PP/PVC, Shielded, Security and Commercial Audio Cable for sensor connectivity.	✓
10. Best quality communication cable for communication network connectivity	✓
11. Technical details of sensors with Drawing & Brochure for Verification.	✓
12. IP-65 rated Imported DDC Panel	✓

**MUHAMMAD FAHEEM**

Ph. **SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR-2A, EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SAQQA AFTAB**  
Department of Anaesthesia & ICU  
SMBB Institute of Trauma  
Dow University of Health Sciences

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi



Item #: 18

Name of Item: **DIRECT DIGITAL CONTROLS FOR HVAC SYSTEM**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	Airtek or Johnson Controls or Schneider or Equivalent
<b>Model</b>	Australia, USA, Europe, Japan
Communication and integration of the system through extremely powerful, high-speed router/gateway to connect control modules to a BACnet/IP backbone. Must allow a wide range of open and proprietary protocol translator drivers to allow to serve as a gateway to other manufacturers' equipment. Fully programmable, and able to execute complex control strategies for high-level system integration.	✓
The suppliers are required to share the theme and BOQ with the bid.	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>8. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. <b>Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.</b>	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓

**HAMMAD HUSSAIN**  
Biomedical Engineering  
SMBB Institute of Trauma

**MUHAMMAD FAHEEM**  
Page 2 of 3  
SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma Karachi

**SMBB Institute of Trauma Karachi**




Item #: 18

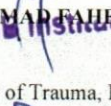
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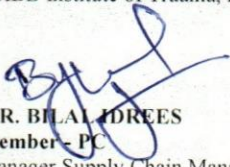
Quantity Required: **01**

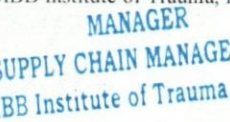
Name of Firms	M/s. Allmed Solutions
<b>Make</b>	Airtek or Johnson Controls or Schneider or Equivalent
<b>Model</b>	Australia, USA, Europe, Japan
<b>COUNTRY OF ORIGIN:</b> USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40


  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

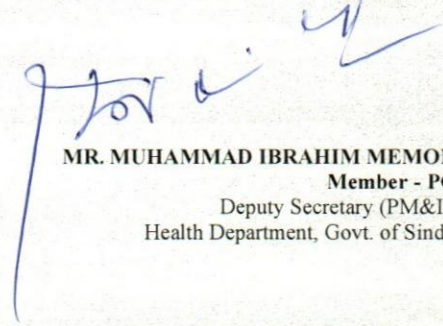
  
**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

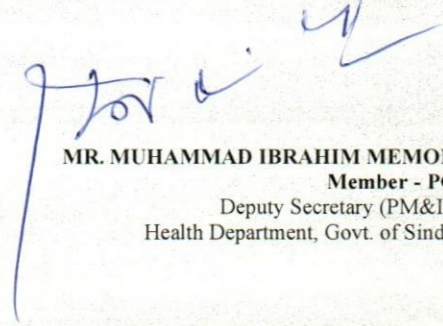
  
**MR. MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

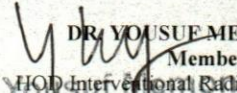
  
**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

  
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

  
**PROF. SADQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

  
**MR. MUHAMMAD IBRAHIM MEMON**  
Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

  
**PROF. DR. BADDARUDDIN SAHITO**  
Member - PC  
Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

  
**DR. M. YOUSUF MEMON**  
Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 19

Name of Item: HVAC DUCTING WORKS

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	Local Best Quality
Model	Local Best Quality
Specifications:	
1. All duct work shall be of galvanized steel sheet unless otherwise indicated on Drawings. Galvanized steel shall be of lock forming quality (LFQ) and shall have a galvanizing coating of 245 grams (G80) total for both sides of one square meter of sheet with regular spangles. The G.I. sheet shall conform to ASTM A-924 and ASTM-90.	✓
2. Structural Steel shall be M.S. members rolled from Pakistan Steel billets or equivalent.	✓
3. Fabrication, Installation, Insulation, testing and commissioning of GI sheet metal duct work complete in all respect with hangers, supports, bracing and fixing accessory in accordance with the final approved ducting drawing	✓
4. Ducting: GI Sheet: 22 AWG	✓
5. Cladding: GI Sheet: 24 AWG	✓
6. Volume Control Damper: GI 18 AWG	✓
7. Grills & Diffusers: GI 18 AWG	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	
Below 90% → 1.5 days increase daily	
Below 75% → 3.5 days increase daily	
Below 50% → 5 days increase daily	
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

**DR. MIYOUSHA MIAMON**  
**Consultant and Head of**  
**Interventional Radiology**  
**MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR**  
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**PROF. SAGDA AFTAB**  
**Department of Radiology & IRI**  
**SMBB Institute of Trauma**  
**Down University of Health Sciences**

**MUHAMMAD HAHEEM**  
**✓ Ph**  
**SMBB Institute of Trauma**



Item #: 19

Name of Item: HVAC DUCTING WORKS

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	Local Best Quality
Model	Local Best Quality
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

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Item #: 20

Name of Item: INSULATION

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	XLPE / THERMOBREAK
Model	-
Specifications:	
Polyolefin Rolls and Sheets should be made of closed cell cross linked polyolefin foam that controls condensation, has high thermal efficiency and sound absorption. They should be made up of a sandwich product that is composed of foam, Alupet foil and self-adhesive backing.	✓
Technical Specification (For Inner Duct)	
1. Fire rated "CLASS 0" as per BS 476 Parts 6 & 7	✓
2. Thickness 12mm	✓
3. Very low water vapor permeance (0 perms)	✓
4. Water tight due to the pre-applied Alupet foil	✓
5. High thermal efficiency ( $\lambda[W/(m \cdot k)]$ 0.032 – 0.035 (23 °C – 45 °C)	✓
6. Wide temperature range (from -50 °C to +105 °C)	✓
7. Chemical resistance – resistant to most chemicals (sodium, silica, fluoride, chloride, etc.	✓
8. Antibacterial & antifungal	✓
9. Environmentally friendly – ODP = 0 and GWP < 5	✓
10. Very low VOC emission level (< 4 µg/m <sup>2</sup> /hr in 24 hours)	✓
11. Good mechanical resistance	✓
12. Sound absorption properties	✓
13. Easy and fast to install	✓
14. Aesthetical look	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	
90% → No Down Time	✓

**MUHAMMAD FAHEEM**  
 Ph  
 SMBB Institute of Trauma

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
 SMBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

Page 1 of 2  
**Dr. M. Yousaf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, OMRO, FRCR2A, EDIR VIR  
 SMBB Institute of Trauma Karachi

Page 1 of 2  
 Dr. M. Yousaf Memon  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, OMRO, FRCR2A, EDIR VIR  
 SMBB Institute of Trauma Karachi



Item #: 20

Name of Item: INSULATION

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	XLPE / THERMOBREAK
<b>Model</b>	-
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS / IQAO / MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN

Member - PC

Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
SMBB Institute of Trauma

MR. MUHAMMAD FAHEEM

Member - PC

Pharmacist,  
SMBB Institute of Trauma, Karachi

MR. BILAL DREES

Member - PC

Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADQA AFTAB

Chairperson - PC

HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

MR. MUHAMMAD IBRAHIM MEMON

Member - PC

Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

PROF. DR. BADDARUDDIN SAHITO

Member - PC

Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M.Pfau Civil Hospital, Karachi

DR. YOUSUF MEMON

Member - PC

HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 21

Name of Item: **EXHAUST FAN (CEILING SUSPENDED)**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	ROBATHERM (Germany)
<b>Model</b>	Will be after approval of design
<b>Specifications:</b>	
1. Air Flow: 1671 m3/hr.	✓
2. EC Motor, IP 55, TEFC, Class F, Rated motor at 50C, Integrated with AHU of OT	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>8. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓

**MUHAMMAD FAHEEM**

Ph  
**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MRBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SAROJA AFTAB**  
 Department of Anesthesiology & ICU  
 SMBB Institute of Trauma  
 High University of Health Sciences

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma, Karachi



Item #: 21

Name of Item: **EXHAUST FAN (CEILING SUSPENDED)**

Quantity Required: **Operation Rooms (As per site requirement)**

Name of Firms	M/s. Allmed Solutions
Make	ROBATHERM (Germany)
Model	Will be after approval of design
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

MR. MUHAMMAD IBRAHIM MEMON  
Member - PC  
Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

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Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

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HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

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SMBB Institute of Trauma, Karachi

DR. YOUSUF MEMON  
Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi

MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi

Dr. M. Yousuf Memon  
Consultant and Head of  
Interventional Radiology  
MRBS, DMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 22

Name of Item: **SINGLE DOME LED OPERATING LIGHT WITH SECOND ARM FOR MONITOR**

Quantity Required: 02

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp.zo.o (Poland) / FORESEESON (Korea)
<b>Model</b>	Proxy OL-03 I HDC-02 I FS-L3202D or Equivalent
<b>Specifications:</b>	
<b>SINGLE DOME LED OPERATING LIGHT WITH SECOND ARM FOR MONITOR</b>	
<b>Specifications:</b>	
1. Unit should have Clarity of vision, optimum performance	✓
2. Unit should have Concentrated light source	✓
3. Unit should have Patented, proven reflector technology	✓
4. Unit should have No color deterioration	✓
5. Unit should have Cool light	✓
6. Unit should be User-friendly	✓
7. Unit should have Optimum hygiene	✓
8. Unit should have Ultra-reliable lighting	✓
9. Unit should have Safety glass for best possible clarity.	✓
10. Unit Should have Sterilize-able and Remove-able Handles	✓
11. Unit Should have dust protection	✓
12. Should have light intensity of main light 160,000 lux	✓
13. Should have light intensity of satellite light 160,000 lux	✓
14. Should have Color temperature adjustment 3500 - 5500 Kelvin	(-10 Minor)
15. Should have Electric field adjustment.	✓
16. Should have Focusable light field size d10 at 1m of light should be 180 mm -300 mm or better	(-10 Minor)
17. Should have Temperature increase at head height < 1 °c	✓
18. Should have color rendering index to 99 Ra or above.	(-10 Minor)
19. Life time of LED should be 50,000 hours or more.	✓
20. Dome should be adjustable upper side maximum 7 Feet or more and lower side minimum 4 Feet or more.	✓
21. Based on room size and can customize the configuration.	✓
22. System should be compatible with Laminar Flow System.	✓
23. INTEGRATED HD CAMERA (qty1)	✓
24. Resolution: 1920 x 1080 Full HD or better	✓
25. Second arm for the monitor with holder to hold 26" or more monitor (medical Grade) (qty2)	✓
<b>Power Requirement:</b>	
1. Line voltages: 100-240VAC	✓
2. Line Frequency: 50/60 Hz	✓

**MUHAMMAD FAHEEM**

**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

Page 1 of 3

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MRBS, DMRD, FRCR2A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SABQA AFTAB**  
 Department of Anesthesiology & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**



Item #: 22

Name of Item: **SINGLE DOME LED OPERATING LIGHT WITH SECOND ARM FOR MONITOR**

Quantity Required: **02**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp.zo.o (Poland) / FORESEESON (Korea)
<b>Model</b>	Proxy OL-03 I HDC-02 I FS-L3202D or Equivalent
<b>Certification:</b>	
1. System should have Certification <b>FDA 510(k)/CE/JIS/MHLW/JQAO</b>	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years with</b> maintenance and parts replacement.	✓
All the parts are included in the warranty i.e. LED, Keypad, camera, medical grade monitor and etc.	✓
1. PPM must be done according to the OEM criteria in warranty period.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
3. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
4. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
5. Up-time guarantee during warranty period must be 90-95%.	✓
6. Response to breakdown during and after warranty period must be 1-3Hours.	✓
<b>7. Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator and application training session for end user by Principle Certified resource.	✓
3. In house service training session by Principal Certified resource	✓
<b>Note:</b>	
1. Safely installation of new OT light and dismantling of old installed OT light should be responsibility of awarded firm/supplier.	✓
2. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded firm/supplier).	✓
3. OT light should be fully compatible with the Modular Operation Theater and as per site requirement.	✓
<b>COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT</b>	✓

*Bytal*  
MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi

*Hussain*  
**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

*Yusuf*  
**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi

*Faheem*  
**MUHAMMAD FAHEEM**  
SMBB Institute of Trauma

*Aftab*  
**PROF. SABOOR AFTAB**  
Department of Anesthesia & ICU  
SMBB Institute of Trauma  
Dow University of Health Sciences

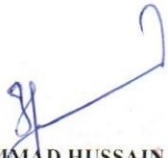



Item #: 22

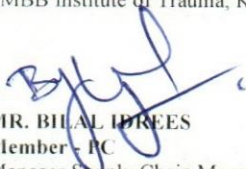
Name of Item: **SINGLE DOME LED OPERATING LIGHT WITH SECOND ARM FOR MONITOR**

Quantity Required: 02


Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland) / FORESEESON (Korea)
Model	Proxy OL-03 I HDC-02 I FS-L3202D or Equivalent
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	30

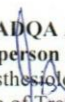
  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

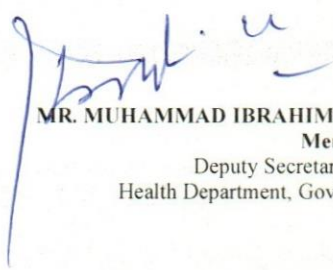
  
**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

  
**MR. BILAL IQBAL**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

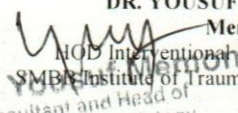
  
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

  
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Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

  
**PROF. SADQA AFTAB**  
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SMBB Institute of Trauma  
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Dr. Ruth K.M.Pfau Civil Hospital, Karachi

  
**DR. M. YOUSUF MEMON**  
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MBBS, DMRD, FRCR2A, EDIR VIR  
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**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 23

Name of Item: ELECTRIC WINDOW BLINDS with LEAD PROTECTION

Quantity Required: Operation Rooms (As per site requirement)

Name of Firms	M/s. Allmed Solutions
Make	Imported
Model	Imported
Specifications:	
The window element is installed flush with modular wall system. Additionally, venetian blinds are installed on the inside to meet the hygienic demands of OR, ensuring the ease of installation and cleaning. Window blinds with automatic	✓
operation and functions including raise, lower and turn. 2 x safety glass (ESG) min. 5mm with venetian blinds on the inside.	✓
Material: Aluminum	✓
Operating Voltage: 24 VDC	✓
Dimensions: 1600 x 1200 mm or as per end user Requirement	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day, then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR2A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**MUHAMMAD FAHEEM**  
 ✓ Ph  
**SMBB Institute of Trauma**

**PROF. S. AFTAB**  
 Department of Health Sciences  
 Dow University of Health Sciences

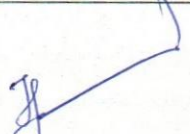



Item #: 23

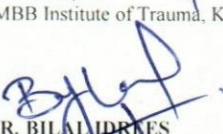
Name of Item: **ELECTRIC WINDOW BLINDS with LEAD PROTECTION**

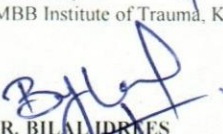
Quantity Required: **Operation Rooms (As per site requirement)**


Name of Firms	M/s. Allmed Solutions
Make	Imported
Model	Imported
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

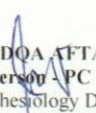
  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

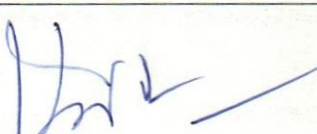
  
**MUHAMMAD FAHEEM**  
Pharmacist,  
SMBB Institute of Trauma, Karachi

  
**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

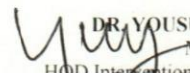
  
**MR. BILAL IDREES**  
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Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

  
**PROF. SADQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

  
**PROF. SADQA AFTAB**  
Department Of Anesthesia & ICU  
SMBB Institute of Trauma  
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**MR. MUHAMMAD IBRAHIM MEMON**  
Member - PC  
Deputy Secretary (PM&I),  
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Member - PC  
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**DR. M. YOUSUF MEMON**  
Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 24

Name of Item: **STAINLESS STEEL SURGICAL SCRUB WITH KNEE & SENSOR OPERATION**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp.zo.o (Poland)
<b>Model</b>	SU-02.2 (With Infrared water dispenser)
<b>Specifications:</b>	
Self-supporting construction	✓
Made of 1mm thick stainless steel 304	✓
Able to dispense soap and disinfectant solution for 2-3 persons,	✓
Completely welded construction for hygienic finishes for knee operated water control as a backup. In addition, the sink is also equipped with knee operated soap dispensing	✓
Wall mounted	✓
1. Deep Sloping Basin	✓
2. Adjustable thermostatic mixing valve 35°C to 41°C	✓
3. Check stops strainers	✓
4. Flow control valve	✓
5. Back-flow preventer	✓
6. Flow regulator 0.25 sec to 12min	✓
Dimensions – Customized as per site requirement	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	

**MUHAMMAD FAHEEM**

Ph  
SMBB Institute of Trauma

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MRBS, OMRD, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SADQA AFTAB**  
Department of Anesthesia & ICU  
SMBB Institute of Trauma  
Don't Call me on mobile number

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi



Item #: 24

Name of Item: STAINLESS STEEL SURGICAL SCRUB WITH KNEE & SENSOR OPERATION

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland)
Model	SU-02.2 (With Infrared water dispenser)
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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Ph  
SMBB Institute of Trauma

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**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

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Item #: 25

Name of Item: LED X-RAY FILM ILLUMINATOR FOR OPERATING ROOM

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	INFIMED Sp.zo.o (Poland) / ULTRAVIOL
<b>Model</b>	LED NGP 31
<b>Specifications:</b>	
1. Integrate able with the modular wall system.	✓
2. No. of Films: 3	✓
3. Intensity adjustable	✓
4. Life of LED Lights: 50,000 hours	✓
5. Absolutely Flickering free	✓
6. Film Activated Switch in the film Holder	✓
7. On / off switch with dimmer control for each screen	✓
8. Mains Voltage: 220V, 50/60 Hz	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓

**MUHAMMAD FAHEEM**

**SMBB Institute of Trauma**

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SAEEDA AFTAB**  
 Department of Anaesthesia & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

**SUPPLY CHAIN MANAGEMENT**  
 SMBB Institute of Trauma, Karachi



Item #: 25

Name of Item: LED X-RAY FILM ILLUMINATOR FOR OPERATING ROOM

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland) / ULTRAVIOL
Model	LED NGP 31
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

MUHAMMAD FAHEEM  
Pharmacist  
SMBB Institute of Trauma, Karachi

MR. BILAL IDREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi

PROF. SADQA AFTAB  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

PROF. SADQA AFTAB  
Department Of Anesthesia & ICU  
SMBB Institute Of Trauma  
Dow University of Health Sciences

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HOD Interventional Radiology,  
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Interventional Radiology  
MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID # T00518-23-0005

TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL: 14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 26

Name of Item: **DUAL ARM SURGICAL PENDANT**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	G. Samaras S.A (Greece)
<b>Model</b>	Thermi
<b>Specifications:</b>	
Ceiling mounted Surgical pendant is installed to provide all the necessary electrical, data and medical gases services within the sterile field to assist the surgery.	✓
Shelves – 5 Pcs	✓
1. Drawer – 1 Pcs	✓
2. No. of Arms: 2	✓
3. Length of first arm: 600/800 mm or as per site requirement	✓
4. Length of second arm: 600/800 mm or as per site requirement	✓
5. Max. degree of rotation at each arm: 340°	✓
6. Max. loading capacity: 200 Kg or better	✓
7. Pneumatic brakes to control horizontal movement.	✓
8. Electrical Sockets British Standard – 12 Pcs	✓
9. LAN Data ports RJ45 for PC – 1 Pc	✓
10. Telephone Outlets RJ11 – 1 Pc	✓
11. O2 Outlet (British Standard): 2 Pc	✓
12. Medical Air 4 Bar (British Standard): 2 Pc	✓
13. Vacuum Outlet (British Standard): 2 Pcs	✓
14. CO2 Outlet (British Standard): 1 Pc	✓
15. LV Pole – 1 Pc	✓
16. Equipotential Sockets: 5 Pcs	✓
17. Basket for accessories	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	

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Ph  
SMBB Institute of Trauma

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma: Karachi

Page 1 of 2

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi

**PROF. SADDIQ AFTAB**  
Department of Radiology & ICU  
SMBB Institute of Trauma  
Dor University of Health Sciences



Item #: 26

Name of Item: **DUAL ARM SURGICAL PENDANT**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	G. Samaras S.A (Greece)
<b>Model</b>	Thermi
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
<b>COUNTRY OF ORIGIN:</b> USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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Member - PC  
Bio-Medical Engineer  
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**SUPPLY CHAIN MANAGEMENT**  
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TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 27

Name of Item: **DUAL ARM ANESTHESIA PENDANT**

Quantity Required: **01**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	G. Samaras S.A (Greece)
<b>Model</b>	THESSALLONIKI
<b>Specifications:</b>	
Ceiling mounted Surgical pendant is installed to provide all the necessary electrical, data and medical gases services within the sterile field to assist the surgery.	✓
1. Shelves – 2 Pcs	✓
2. Drawer – 1 Pcs	✓
3. No. of Arms: 2	✓
4. Length of first arm: 600/800 mm or as per site requirement	✓
5. Length of second arm: 600/800 mm or as per site requirement (IF required)	✓
6. Max. degree of rotation at each arm: 340°	✓
7. Max. loading capacity: 400 Kg or more	✓
8. Pneumatic brakes to control horizontal movement.	✓
9. Electrical Sockets British Standard – 12 Pcs	✓
10. LAN Data ports RJ45 for PC – 1 Pc	✓
11. Telephone Outlets RJ11 – 1 Pc	✓
12. Oxygen Outlet (British Standard): 2 Pcs	✓
13. Medical Air 4 Bar (British Standard): 2 Pcs	✓
14. Vacuum Outlet (British Standard): 2 Pcs	✓
15. Nitrous Oxide Outlet (British Standard): 2 Pcs	✓
16. AGSS Outlet: 1 Pc	✓
17. I.V Pole – 1 Pc	✓
18. Equipotential Sockets: 5 Pcs	✓
19. Basket for accessories	✓
20. Should be compatible with the Anesthesia machine lifting/mounting	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e. door, control panel, audio video system, digital multiviewer, peripheral lights, complete laminar flow including filters, Air handling unit including all parts (fan, dehumidifier, DX coil, control panel), HVAC control system, Scrub unit valve & sensor and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
 MBBS, DMRD, FRCC<sub>2</sub>A, EDIR VIR  
 SMBB Institute of Trauma Karachi

**PROF. SADDQA AFTAB**  
 Department Of Anesthesia & ICU  
 SMBB Institute Of Trauma  
 Dow University

**MUHAMMAD FAHEEM**  
 SMBB Institute of Trauma

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
 SMBB Institute of Trauma, Karachi



Item #: 27

Name of Item: **DUAL ARM ANESTHESIA PENDANT**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	G. Samaras S.A (Greece)
Model	THESSALLONIKI
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% → No Down Time	✓
Below 90% → 1.5 days increase daily	✓
Below 75% → 3.5 days increase daily	✓
Below 50% → 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
<b>Note:</b>	
1. Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
2. All the Item No: 1 to 28 including Wall panel, Glass wall panel, Surgeon control panel, Medical cabinet, Doors, Audio video management, documentation & Communication, Multi-viewer, Vinyl flooring Laminar Air flow including all parts, HVAC system and its digital controls, Insulation, Exhaust fan, scrub, x-ray illuminator, Pendant and etc. are from Europe, USA, Japan or equivalent.	✓
3. HVAC ducting, Apparatus control panel and Electric wiring can be supplied locally, must be of high quality, and will be verified by the concerned department / Authorized nominated Officer by Procuring Agency.	✓
4. The winning bidder for the modular operation theater should sign an MOU with the winning bidder of Ceiling mounted Angiography system. The purpose of the MOU is to ensure the smooth and proper functioning of the Angiography system and Modular operation theater, and to guarantee proper coordination (attached).	✓
5. Complete Modular Operation Theater should be installed with the presence of Principle technical person.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

MR. HAMMAD HUSSAIN  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

MR. MUHAMMAD FAHEEM  
Member - PC  
Pharmacist  
SMBB Institute of Trauma, Karachi

MR. BILAL IDREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADQA AFTAB  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

Department of Anesthesiology & ICU  
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DR. YOUSUF MEMON  
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SMBB Institute of Trauma, Karachi  
Consultant and Head of  
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MBBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 01

Name of Item: **Portable surface & Ducts decontamination system using dry fog process**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	Air in Space (France)
<b>Model</b>	X-CID (CP01038-1)
<b>Specifications:</b>	
Disinfectant dispersal speed 21ml/min	✓
Total disinfectant volume 2.5 liters	✓
Dual dispersal protocols (6ml/m3 or 3ml/m3)	✓
Electric reservoir lock system	✓
Data entry by touch screen (room volume, operator, room, etc.)	✓
Memory of 500 process events	✓
Maximum room volumes disinfected 800m3 at 3ml/m3 and 400m3 at 6ml/m3	✓
Hydrogen peroxide (H2O2) 7% boosted by peracetic acid (PAA)	✓
Up to 6 log reduction.	✓
Huge removal capacity due to the 5 carbon filters.	✓
H2O2 Detector (Dragger Brand)	✓
MASK (qty.: 2)	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e., LCD/LED, Battery, UV lamp, Scope, Door, Keypad, Filter, Sensor and all other parts & consumable items and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% à No Down Time	✓
Below 90% à 1.5 days increase daily	✓
Below 75% à 3.5 days increase daily	✓
Below 50% à 5 days increase daily	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

**MUHAMMAD FAHEEM**  
**Ph**  
**SMBB Institute of Trauma**

**YOUSUF MEMON**  
**Head of**  
**Interventional Radiology**  
**MERS, DIMRD, FRCR, A. EDIR, MR**  
**SMBB Institute of Trauma Karachi**

**PROF. SARDAR AFTAB**  
**Department of Radiology & ICU**  
**SMBB Institute of Trauma**  
**Down Underway on 14-03-2024**





Item #: 01


Name of Item: Portable surface & Ducts decontamination system using dry fog process

Quantity Required: 01

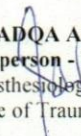
Name of Firms	M/s. Allmed Solutions
Make	Air in Space (France)
Model	X-CID (CP01038-1)
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

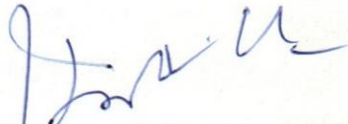
  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi  
**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

  
**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist  
SMBB Institute of Trauma, Karachi  
**MUHAMMAD FAHEEM**  
Ph  
SMBB Institute of Trauma

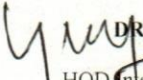
  
**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi  
**MANAGER**

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

  
**PROF. SADQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi  
**PROF. SADQA AFTAB**  
Department of Anesthesiology & ICU  
SMBB Institute of Trauma  
Dow University of Health Sciences

  
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Health Department, Govt. of Sindh

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Dr. Ruth K.M.Pfau Civil Hospital, Karachi

  
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Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A, EDIR, VIB  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 02

Name of Item: **Hand Held Particle Counter**

Quantity Required: **01**

Name of Firms	M/s. Allmed Solutions
<b>Make</b>	TSI Inc. (USA)
<b>Model</b>	9310-02
<b>Specifications:</b>	
Should comply with all the stringent requirements set forth in ISO 21501-4. It is calibrated with NIST traceable PSL spheres using TSI's world-class Classifier and Condensation Particle Counters,	✓
Technical Specification	✓
0.3 to 25 µm	✓
CFM (2.83 L/min) flow rate	✓
Up to three channels of simultaneous data	✓
ISO 21501-4 compliant	✓
USB serial output	✓
Compatible with TrakPro Lite Secure	✓
1,500 sample record storage	✓
250 location labels	✓
Large 3.2-inch (8.1-cm) display	✓
On screen data review	✓
User selectable middle size channel	✓
Removable Li-ion battery	✓
Intuitive keypad menus	✓
High impact injection molded plastic	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e., LCD/LED, Battery, UV lamp, Scope, Door, Keypad, Filter, Sensor and all other parts & consumable items and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% à No Down Time	✓
Below 90% à 1.5 days increase daily	✓

**HAMMAD HUSSAIN**  
Blomedical Engineer  
SMBB Institute of Trauma  
MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi

Page 1 of 2  
**MUHAMMAD FAHEEM**  
Ph  
Dr. M. Yousuf Memon  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR<sub>2</sub>A, EDIR VIR  
SMBB Institute of Trauma Karachi

PROF. SYEDA AFTAB  
Professor of Anatomy & Cell  
SMBB Institute of Trauma  
Dow University of Health Sciences



Item #: 02  
Name of Item: Hand Held Particle Counter  
Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	TSI Inc. (USA)
Model	9310-02
Below 75% à 3.5 days increase daily	✓
Below 50% à 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /QAO/ MHLW	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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Health Department, Govt. of Sindh

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SMBB Institute of Trauma, Karachi

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SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 03

Name of Item: **DOUBLE WING MANUAL DOOR FOR CLEAN CORRIDOR WITH ACCESS CONTROL**

Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland)
Model	MD.SSB-304.SW1-105210
Specifications:	
1. Door wing with 1.5mm Stainless Steel 304 fully closed construction.	✓
2. Option of Door wing stainless steel color or RAL Powder coated with antimicrobial properties according to user choice	✓
3. Hermetic sealed door to prevent foreign bodies when closed	✓
4. Stainless Steel handles with key lock from both sides.	✓
5. Stainless Steel 304 1.5mm thick sheet Door Frame brushed finished or power coated in any RAL color.	✓
6. Best quality Door Closer and hinges	✓
7. Door Dimension – 1500 x 2100 mm or as per the size requirements	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e., LCD/LED, Battery, UV lamp, Scope, Door, Keypad, Filter, Sensor and all other parts & consumable items and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. Down Time:	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	✓
90% à No Down Time	✓
Below 90% à 1.5 days increase daily	✓
Below 75% à 3.5 days increase daily	✓
Below 50% à 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**HAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

Page 1 of 2


**Dr. M. Yousuf Memon**  
**Consultant and Head of**  
**Interventional Radiology**  
**MBBS, DMED, FRCR, A. EGIR VIR**  
**SMBB Institute of Trauma Karachi**


**MUHAMMAD FAHEEM**  
**Ph**  
**SMBB Institute of Trauma**

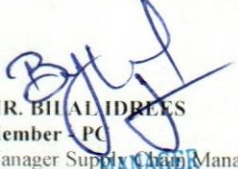


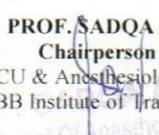
Item #: 03  
Name of Item: **DOUBLE WING MANUAL DOOR FOR CLEAN CORRIDOR WITH ACCESS CONTROL**  
Quantity Required: 01

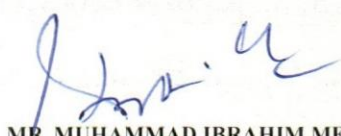
Name of Firms	M/s. Allmed Solutions
Make	INFIMED Sp.zo.o (Poland)
Model	MD.SSB-304.SW1-105210
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
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Bio-Medical Engineer  
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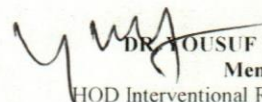
  
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SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID # T00518-23-0005

TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL: 14-03-2024 AT 11:30 AM

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE IOR AT 6th FLOOR SMRRIT**

Item #: 04

Name of Item: **EXO-Scope**

Quantity Required: **01**

Name of Firms		M/s. Allmed Solutions
Make		-
Model		AQV A-5-1 EXO
Specifications:		
Telescope 0°, working distance 25 – 75 cm for white light, 20 – 30 cm length 11 cm, autoclavable, with fiber optic light transmission incorporated	1	✓
Clamping Cylinder, folding, for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable. The clamping cylinder allows vertical movement and rotation of the telescope, for use with Clamping Jaw and universal adaptor 10 - 15 mm	1	✓
Clamping Jaw, with ball joint, large, clamping range 16.5 to 23 mm, with quick release coupling SLOCK (male), for use with all square-headed telescopes	1	✓
Articulated Stand, reinforced version, only, L-shaped, especially long operating range, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 66 cm. with fastener: Lock (female)	1	✓
Rotation Socket, to clamp on the operating table with one already mounted butterfly nut, for use with European and United States standard rails, with lateral clamping element for height and angle adjustment of the articulated stand	1	✓
Warranty and Maintenance Period:		
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e., LCD/LED, Battery, UV lamp, Scope, Door, Keypad, Filter, Sensor and all other parts & consumable items and etc.		✓
2. PPM must be done according to the OEM criteria in warranty period.		✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.		✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.		✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.		✓
6. Up-time guarantee during warranty period must be 90-95%.		✓
7. Response to breakdown during and after warranty period must be 1-3Hours.		✓
8. Down Time:		
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after month the down time should be calculated, are mentioned below;		✓
90% à No Down Time		✓
Below 90% à 1.5 days increase daily		✓
Below 75% à 3.5 days increase daily		✓

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR, A. BOIR VIM  
SMBB Institute of Trauma Karachi

**MUHAMMAD FAHEEM**  
PH  
SMBB Institute of Trauma

PROC. S.A.P.T.A.D  
Department of Anesthesia & Pain  
SMBB Institute of Trauma  
Dow University of Health Sciences - Karachi

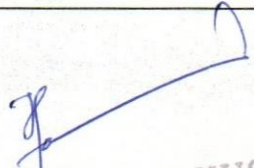



Item #: 04


Name of Item: EXO-Scope

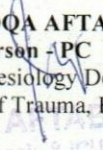
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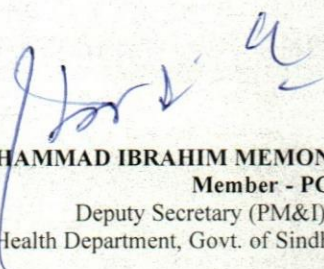
Name of Firms	M/s. Allmed Solutions
Make	-
Model	AQV A-5-1 EXO
Below 50% à 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

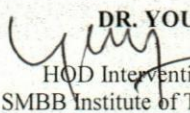
  
**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist  
SMBB Institute of Trauma, Karachi

  
**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi  
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**PROF. SADOQA AFTAB**  
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SMBB Institute of Trauma, Karachi  
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Department Of Anesthesiology & ICU  
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HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi  
**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MRBS, DMRD, FRCR<sub>2A</sub>, EDIF VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID # T00518-23-0005  
TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025  
DATE & TIME OPENING OF TECHNICAL PROPOSAL: 14-03-2024 AT 11:30 AM

TENDER TITLE:  
**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 05  
Name of Item: **UVC AIR DISINFECTION FOR AIR DUCT**  
Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	Sanuvox Inc. (Canada)
Model	BIOM-30/40
Specifications:	
<b>UVC AIR DISINFECTION FOR AIR DUCT</b>	
1. UVC air disinfection system should be installed in the supply ducting of an HVAC system to disinfect	✓
2. airborne mold, virus, bacteria and carbon-based odors. The system should comprise of 5 lamps, each	✓
3. secured in their own parabolic aluminum reflector for maximum UVC intensity. In addition, it should	✓
4. installed parallel to airflow to achieve the maximum amount of contact time with the airborne	✓
5. contaminants.	✓
6. It should be ideal for any building equipped with a HVAC system. The ballast/control box should be	✓
7. equipped with BMS dry contacts to work with any building automation system.	✓
<b>Technical Specification</b>	
1. UV Wavelength Nanometers (nm) * UVC 254nm	✓
2. UV Lamp Configuration Straight T6 (5)	✓
3. Reflector Anodized aluminum parabolic reflectors (5)	✓
4. Lamp Change Out Time 17,000 Hours	✓
5. UV Lamp Type Proprietary high intensity 19mm mercury vapor quartz	✓
6. Should be as per the Air Flow.	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty i.e., LCD/LED, Battery, UV lamp, Scope, Door, Keypad, Filter, Sensor and all other parts & consumable items and etc.	✓
2. PPM must be done according to the OEM criteria in warranty period.	✓
3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	✓
4. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	✓
6. Up-time guarantee during warranty period must be 90-95%.	✓
7. Response to breakdown during and after warranty period must be 1-3Hours.	✓
8. <b>Down Time:</b>	
If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below;	<b>MUHAMMAD FAHEEM</b> Ph ✓ <b>SMBB Institute of Trauma</b>
90% a No Down Time	✓
Below 90% 1.5 days increase daily	✓

**MUHAMMAD HUSSAIN**  
Blomedical Engineer  
SMBB Institute of Trauma  
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

Page 1 of 2

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR2A, EDIR VIF  
SMBB Institute of Trauma Karachi

**PROF. SANJIVA KATTA**  
Department of Anesthesiology  
SMBB Institute of Trauma  
Don't Underestimate the Power of a Good Anesthesia



Item #: 05  
Name of Item: UVC AIR DISINFECTION FOR AIR DUCT  
Quantity Required: 01

Name of Firms	M/s. Allmed Solutions
Make	Sanuvox Inc. (Canada)
Model	BIOM-30/40
Below 75% à 3.5 days increase daily	✓
Below 50% à 5 days increase daily	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram must be provided.	✓
2. In house operator training session for end user.	✓
3. In house service training session for Biomedical and Maintenance by Principal Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS /JQAO/ MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

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SMBB Institute of Trauma, Karachi  
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SMBB Institute of Trauma  
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**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

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Item #: 01

Name of Item: **ANESTHESIA MACHINE WITH VENTILATOR**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
<b>Make</b>	Penlon (UK)
<b>Model</b>	Prima 465
<b>Demonstration:</b>	
1. Quoted model demonstration is mandatory in technical approval is subject to satisfactory demonstration.	Satisfactory
<b>Specifications:</b>	
1. Gas Supply: Pipeline input pressure: 3 to 6 bar supply required; Connections: for O2, N2O, Air and Vacuum.	✓
2. Non-interchangeable gas supply pipeline inlets.	✓
3. Pin index cylinder yokes for O2 and N2O one each or more.	✓
4. Stainless steel/fiber work surface.	✓
5. Central Gas / Electronically driven unit.	✓
6. Continual fresh gas flow with fresh gas flow compensation during mechanical ventilation.	✓
7. Should be low flow	✓
8. Auxiliary O2 Outlet one or more.	✓
9. Two lockable castors	✓
10. Absorber bag support arm	✓
11. Oxygen flush 30 l/min or more	✓
12. Should have built in suction operating on vacuum	✓
13. Should have built in Active scavenging system compatible with hospital AGSS	✓
14. Manometer gauges (Manual or Digital)	✓
i. Pipeline: O2, N2O & Air	✓
ii. Cylinder NIST: O2, N2O	✓
iii. Pin indexed: O2, N2O	✓
15. Rotameter (hypoxic guard system)	✓
i. O2 tube (Double tube)	✓
ii. N2O tube	✓
iii. Air	✓
16. Common gas outlet option should be present.	✓
17. Front outlet 22mm OD – 15mm ID	✓
18. Built in Oxygen monitoring system.	✓
19. Built in autoclavable flow sensor compatible with all type of patient.	✓
20. Should have ability to add module or other optional features like EtCO2, Agent monitoring.	✓
21. Selectatec system two or more station vaporizer mounting	✓
i. Vaporizer should be flow and temperature compensated	✓
ii. Should not be brand specified and can be interchangeable	✓
22. Minimum 1.5 liters CO2 absorber volume compatible with all type of patient	✓

**MUHAMMAD FAHEEM**

Ph  
SMBB Institute of Trauma

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**Blomedical Engineer**  
**SMBB Institute of Trauma**

Page 1 of 3

**Dr. M. Yousuf Memon**  
 Consultant and head of  
 Interventional Radiology  
 MBBS, DMRD, FRCR, FRCR, FRCR, FRCR  
 SMBB Institute of Trauma Karachi

**PROF. SAFI ULLAH**  
 Department of Anesthesiology & ICU  
 SMBB Institute of Trauma  
 Don't forget to sign the bid



Item #: 01

Name of Item: ANESTHESIA MACHINE WITH VENTILATOR

Quantity Required: 01 Unit

Name of Firms	M/s. Noor International
Make	Penlon (UK)
Model	Prima 465
i. Absorbent canister should be Autoclavable	✓
23. Breathing assembly/system should be completely Autoclavable and not be cycle bounded.	✓
24. Two or more drawer units.	✓
25. Anesthesia ventilator with minimum 15" or more color Touch LCD/TFT screen and should be capable of ventilating adult, pediatric and neonate patient.	(-10 Minor)
26. Ventilation modes: MAN, SPONT, VCV, PCV, PSV	✓
27. Should be equipped with anti-barotrauma and anti-volutrauma system	✓
28. Tidal volume from 5 ml to 1500 ml or better	✓
29. Ventilation frequency starting from 4 bpm up to 80 bpm or better	✓
30. Inspiratory to expiratory time starting from 1:1 till 4:1	✓
31. PEEP 4 cmH2O to (20 cmH2O or more)	✓
32. Oxygen failure safety system	✓
33. Measured parameters should include: Expired tidal volume, frequency, minute volume, PIP, plateau pressure, PEEP, mean pressure, airway pressure	✓
34. Battery backup: 60 minutes or more	✓
35. Audible and visual alarms: Low air/ N2O/ O2 input pressure, apnea alarm, O2 alarms, upper/ lower limit alarms and leak or patient disconnection	✓
36. Silent indicator, time and date and mains and battery indicator	✓
Should Be Supplied with:	✓
1. 2*Rebreathing patient circuit for Adult and Paeds	✓
2. 1*Reusable bag 2L	✓
3. 1*Power cord	✓
4. 1*Vaporizers (Isoflurane)	✓
5. 1*Side arm for Patient Monitor attachment	✓
Power Requirement:	
i. Line Voltages 100-240 VAC	✓
ii. Line Frequency 50/60Hz	✓
Requirement:	
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty i.e., O2 sensor, battery & etc.	✓
2. Five years' warranty of internal flow sensor.	✓
3. PPM must be done according to the OEM criteria in warranty period	✓
4. Up-time guarantee during warranty period must be 90 -95%	✓
After Sales Service Support:	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram	✓
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓

MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma. Karachi

Biomedical Engineer  
SMBB Institute of Trauma

Page 2 of 3

MUHAMMAD FAHEEM  
Ph  
SMBB Institute of Trauma

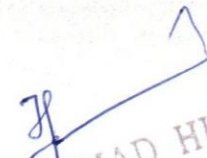
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PROF. SAAD AFTAB  
Department of Medical Physics & ICU  
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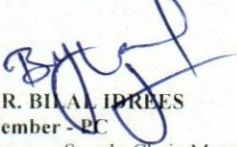


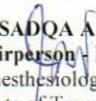
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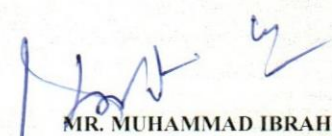
Name of Firms	M/s. Noor International
Make	Penlon (UK)
Model	Prima 465
COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA 510(K) / CE(MDD) / JIS / JQAO/ MHLW.	✓
MANUFACTURER FROM OTHER COUNTRIES (OTHER THAN USA, EUROPE OR JAPAN) SHOULD HAVE FDA (510K) AND CE / (MDD) / JIS / JQAO / MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	30

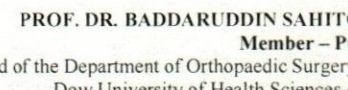
  
**MR. HAMMAD HUSSAIN**  
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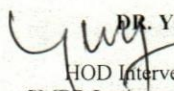
  
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Item #: 02  
Name of Item: **PATIENT MONITOR FOR OPERATION THEATER**  
Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
<b>Make</b>	Nihon Kohden (Japan)
<b>Model</b>	BSM 2565
<b>Specifications:</b>	
1. Monitor for Adult / Paeds / Neonates	✓
2. Operating Features and Characteristics:	✓
3. Screen Size: At least 15" or more diagonal (Touch Operated) or better with non-fade LCD / TFT LCD / LED color display	✓
4. Electro-Surgical Interference Suppression / Protection	✓
5. Defibrillator Protection	✓
6. Freeze and Cascade Facility	✓
7. Waveform: Six wave forms or more	✓
8. Waveform Traces Speed: 25 & 50 mm / sec	✓
<b>Parameters:</b>	
<b>ECG</b>	
1. Input: 3&5-lead ECG cable and standard AAMI line for connection	✓
Lead Choice: I, II, III, aVR, aVF, aVL, V, V1-V6,	✓
2. Numeric: Heart Rate	✓
3. Real time, and freeze ECG Trace	✓
<b>Non-Invasive Blood Pressure (NIBP):</b>	
1. Method: Oscillometric Principle	✓
2. Numeric: Systolic, Diastolic, and Mean Pressure	✓
3. Selectable auto inflate interval settings	✓
4. Rising Cuff / Continuous Pressure Display	✓
<b>Invasive Blood Pressure (IBP):</b>	
1. IBP Two or more Channels	✓
<b>EtCO2:</b>	
1. Mainstream Capnography (EtCO2)	✓
<b>C.O (Cardiac Output):</b>	
1. Measurement Method Thermodilution Method	✓
<b>Temperature:</b>	
1. Numeric: Temperature selectable in °C / °F	✓
<b>Pulse Oximetry:</b>	
1. Numeric: 0 – 100% oxygen saturation measuring range	✓
2. Waveform-Plethysmograph Pulse with Pulse Strength Indication	✓
3. Probe preferable Masimo/Nellcor	✓
<b>Arrhythmia Analysis:</b>	
1. Arrhythmia Analysis and ST Analysis	✓

Page 1 of 3

**HAMMAD HUSSAIN**  
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SMBB Institute of Trauma

**PROF. SAROOR AHMAD**  
Department of Anesthesiology & ICU  
SMBB Institute of Trauma

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**



Item #: 02

Name of Item: **PATIENT MONITOR FOR OPERATION THEATER**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
<b>Make</b>	Nihon Kohden (Japan)
<b>Model</b>	BSM 2565
<b>Respiration:</b>	
1. Breath Rate display and settable apnea alarms	✓
2. Sweep Speed: 6.25, 12.5 mm / sec or better	✓
<b>Other Parameters:</b>	
1. Built-in rechargeable battery with 2 or more-hour battery backup	✓
2. Monitor should have ability to add module or other optional features like Agent monitoring and IBP up to 4 channels. IBP up to 4 channel, Agent Monitoring and etc.	✓
3. Trend Data: Graphical / Tabular with at-least 48 hours' or better	✓
4. Should have feature for the connectivity with the Central Monitoring station	✓
<b>Alarms:</b>	
1. High & Low (settable) on all parameters	✓
2. Visual and audible indication of alarms	✓
<b>Communication:</b>	
1. Capability to interface with LAN / WLAN for data transfer	✓
<b>Accessories:</b>	
1. The system must be complete with all reusable (sensors, probes, cables, or any other accessories) required for measuring all the above selected parameters for Adult, Paeds and Neonates	✓
2. Reusable Cuffs (Latex Free) of all available sizes of all body contours	✓
<b>Note: Monitor attachment with existing installed anesthesia machine side arm is the responsibility of supplier/vendor</b>	✓
<b>Power Requirement:</b>	
1. Line voltages: 100-240VAC	✓
2. Line Frequency: 50/60 Hz	✓
<b>Requirement:</b>	
<b>Warranty and Maintenance Period:</b>	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty. (Battery, EtCO2 sensor and all others parts are included).	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
<b>After Sales Service Support:</b>	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram	✓
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
<b>Note:</b>	
<b>Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.</b>	✓
<b>Country of Origin:</b> USA / Europe / JAPAN / UK should have FDA 510(k) / CE(MDD) / JIS /JQAO/ MHLW.	✓
<b>Manufacturer from other Countries</b> (other than USA, Europe or Japan) should have FDA (510k) and CE / (MDD) / JIS / JQAO / MHLW.	✓

**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Department of Interventional Radiology  
MBBS, DNB, FRCR, A, EDIR VIR  
SMBB Institute of Trauma Karachi


**MUHAMMAD FAHEEM**  
Ph  
SMBB Institute of Trauma


**PROF. SAAD AFTAB**  
Department of Anesthesia & ICU  
SMBB Institute of Trauma  
Dear Sir,




Item #: 02  
Name of Item: **PATIENT MONITOR FOR OPERATION THEATER**  
Quantity Required: **01 Unit**


Name of Firms	M/s. Noor International
Make	Nihon Kohden (Japan)
Model	BSM 2565
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

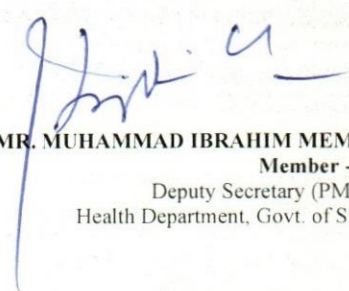
  
**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi

  
**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

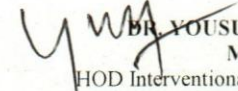
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

  
**PROF. SADQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

**PROF. SADQA AFTAB**  
Department of Anesthesia & ICU  
SMBB Institute of Trauma  
Low Chairperson, of Health Sciences

  
**MR. MUHAMMAD IBRAHIM MEMON**  
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Deputy Secretary (PM&I),  
Health Department, Govt. of Sindh

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**DR. YOUSUF MEMON**  
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**Dr. M. Yousuf Memon**  
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Interventional Radiology  
MRBS, QMRD, FRCR<sub>2</sub>A, EDIR VIR  
SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 03

Name of Item: **PORTABLE MONITOR**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
<b>Make</b>	Trionara (Sweden)
<b>Model</b>	Vitas 4+
<b>Specifications:</b>	
1. Less than 7" Color Digital display LCD/LED	✓
<b>NIBP:</b>	
1. Method: Oscillometric Principle	✓
2. Numeric: Systolic, Diastolic, and Mean Pressure	✓
3. Selectable auto inflates interval settings	✓
4. Rising Cuff / Continuous Pressure Display	✓
5. NIBP Measurement Record: 2000 or more	✓
<b>SPO2:</b>	
1. Preferable Masimo/Nellcor or equivalent.	✓
2. Pulse Oximeter with Plethysmograph waveform and Pulse Strength Indication	✓
3. Complete with all standard accessories reusable SPO2 probe for Paeds and Adult, reusable NIBP cuff with all standard sizes and etc.	✓
4. Rechargeable battery with 2 hours or more battery backup	✓
5. Integrated thermal printer optional	✓
<b>Power Requirement:</b>	
1. Linevoltages: 100-240VAC	✓
2. Line Frequency: 50/60 Hz	✓
<b>Requirement:</b>	
<b>Certification:</b>	
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty. (Battery, and all others parts are included).	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
<b>After Sales Service Support:</b>	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram	✓

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

**MUHAMMAD HUSSAIN**  
**Biomedical Engineer**  
**SMBB Institute of Trauma**

**MUHAMMAD FAHEEM**  
**SMBB Institute of Trauma**

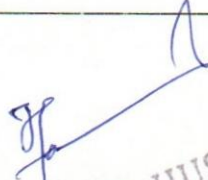
**Dr. M. Yousuf Memon**  
**Page 002 of 2**  
**Interventional Radiology**  
**SMBB Institute of Trauma**


**PROF. DR. AFTAB**  
**Department of Anaesthesia & ICU**  
**SMBB Institute of Trauma**  
**Dear University of Medicine & Health Sciences**

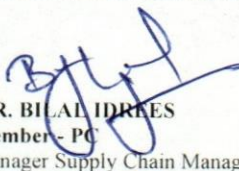


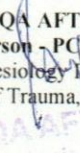
Item #: 03  
 Name of Item: **PORTABLE MONITOR**  
 Quantity Required: **01 Unit**

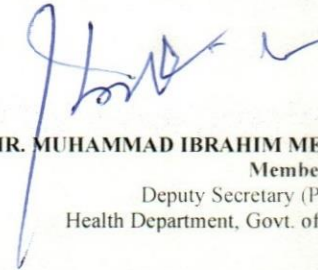
Name of Firms	M/s. Noor International
Make	Trionara (Sweden)
Model	Vitas 4+
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
Country of Origin: USA / Europe / JAPAN / UK should have FDA 510(k) / CE (MDD) / JIS /JQAO/ MHLW.	✓
Manufacturer from other Countries (other than USA, Europe or Japan) should have FDA (510k) and CE / (MDD) / JIS / JQAO / MHLW.	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
**MR. HAMMAD HUSSAIN**  
 Member - PC  
 Bio-Medical Engineer  
 SMBB Institute of Trauma, Karachi

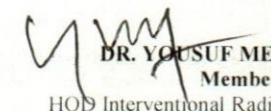
  
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 Manager Supply Chain Management,  
 SMBB Institute of Trauma, Karachi  
**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**

  
**PROF. SADQA AFTAB**  
 Chairperson - PC  
 HOD ICU & Anesthesiology Department,  
 SMBB Institute of Trauma, Karachi  
**PROF. SADQA AFTAB**  
 Department Of Anesthesiology & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

  
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 SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

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Item #: 04

Name of Item: **VASCULAR DOPPLER**

Quantity Required: **01 Unit**

Name of Firms	M/s. Biologic Medical Systems	M/s. Noor International
<b>Make</b>	Huntleigh Health Care Ltd. (UK)	Mindray (China)
<b>Model</b>	Dopplex DMX	M6
<b>Specifications:</b>		
1. High Resolution Color Display	✓	-
2. Vascular Probe: 8 MHz, 10 MHz and Intraoperative probe.	✓	-
3. Bi-directional Doppler Waveform Display	✓	-
4. Noise Reduction to reduce the background hiss	✓	-
5. Removable Micro SD Card Storage	✓	-
6. Compatible with Interchangeable Probes	✓	-
7. Integrated Loudspeaker	✓	-
8. Flow Separated Stereo Headphone Output	✓	-
9. Auto Gain Control	✓	-
10. Rechargeable Battery with 2 hours or more battery backup	✓	-
11. Medical grade recharging kit	✓	-
12. Accessories: complete with: gel, soft carry bag, user manual. Vascular probe (8 & 10 MHz and Intraoperative probe) and Adaptor for battery charging	✓	-
<b>Power Requirement:</b>		
1. Linevoltages:100-240VAC	✓	-
2. Line Frequency: 50/60 Hz	✓	-
<b>Requirement:</b>		
<b>Certification:</b>		
1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	✓	-
<b>Warranty and Maintenance Period:</b>		
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty. (Battery, and all others parts are included).	✓	-
2. PPM must be done according to the OEM criteria in warranty period	✓	-
3. Up-time guarantee during warranty period must be 90 -95%	✓	-
<b>After Sales Service Support:</b>		
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓	-
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓	-
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓	-
4. Response to breakdown during and after warranty period must be 1-3 Hours		-
<b>Trainings &amp; Manual:</b>		

**HAMMAD HUSSAIN**  
Blomedical Engineer  
SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
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SMBB Institute of Trauma Karachi

**MUHAMMAD FAHEEM**  
SMBB Institute of Trauma


**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi


Department of Trauma & Orthopaedics  
SMBB Institute of Trauma  
Dow University of Health Sciences

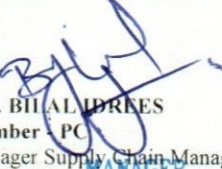


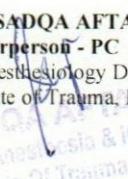
Item #: 04  
Name of Item: VASCULAR DOPPLER  
Quantity Required: 01 Unit

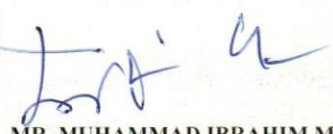
Name of Firms	M/s. Biologic Medical Systems	M/s. Noor International
Make	Huntleigh Health Care Ltd. (UK)	Mindray (China)
Model	Dopplex DMX	M6
1. Operating and service manual with troubleshooting and circuit diagram	✓	-
2. In house operator training session for end user	✓	-
3. In house service training session for Biomedical by Principle Certified resource	✓	-
Note:		
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓	-
COUNTRY OF ORIGIN: JAPAN / EUROPE / UK / USA OR EQUIVALENT	✓	-
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40	Disqualify (Not Quoted Vascular Dopplar)

  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

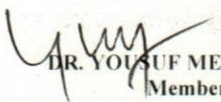
  
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Item #: 05

Name of Item: **PATIENT WARMER (WATER BASED)**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
Make	Keewell Medical Technology (China)
Model	KPW4000
Specifications:	
Patient Warmer whole-body system could be allowed conductive warming therapy.	✓
Which can be used in the operating room, pre-op, recovery, emergency department or any department in need of patient warming therapy	✓
Unit should have ability to pre-condition the water saves time for the caregiver.	✓
Digital display LCD/LED	✓
Water Temperature Range: 20°C - 42°C or better (Heating Only)	✓
Controller Accuracy: Water Temp: ±1°C or better	✓
Water Temperature Display Range: 0°C - 50°C	✓
Audible & Visible alarms for over temperature limits	✓
Adult Blanket with Tubing: 60" x 24" or equivalent, Qty. 02	✓
Paeds Blanket with Tubing: 30" x 22" or equivalent, Qty. 02	✓
Mobile Trolley with two lockable castors (imported or local both must be quoted)	✓
Complete with all standard accessories	✓
Safety: Class 1, Type BF, Defibrillation-proof, IPX4	✓
Power Requirement:	
1. Line voltages: 100-240VAC	✓
2. Line Frequency: 50/60 Hz	✓
Requirement:	
Certification:	
1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty.	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
After Sales Service Support:	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram	✓

**MUHAMMAD FAHEEM**

Ph

**SMBB Institute of Trauma**

Page 1 of 2

**Dr. M. Yousuf Memon**  
 Consultant and Head of  
 Interventional Radiology  
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 SMBB Institute of Trauma Karachi


**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**


**PROF. SAQIB AHMED**  
 Department of Anesthesiology & ICU  
 SMBB Institute of Trauma  
 Dow University of Health Sciences

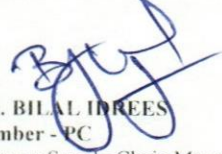


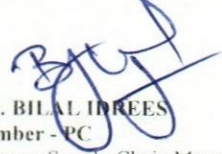
Item #: 05  
Name of Item: PATIENT WARMER (WATER BASED)  
Quantity Required: 01 Unit

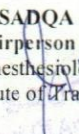
Name of Firms	M/s. Noor International
Make	Keewell Medical Technology (China)
Model	KPW4000
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

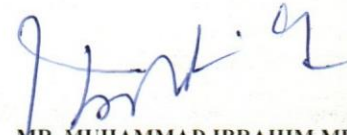
  
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Pharmacist  
SMBB Institute of Trauma, Karachi

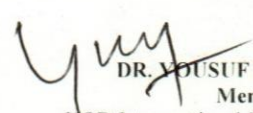
  
MR. BILAL IDREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

  
MANAGER  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma, Karachi

  
PROF. SADQA AFTAB  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

  
MR. MUHAMMAD IBRAHIM MEMON  
Member - PC  
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SMBB Institute of Trauma, Karachi  
Consultant and Head of  
Interventional Radiology  
MBBS, DMRD, FRCR2A, EDIR VIR  
SMBB Institute of Trauma Karachi



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### TECHNICAL EVALUATION

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 06

Name of Item: **BLOOD / FLUID WARMER**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
Make	Keewell Medical Technology (China)
Model	QW618
Specifications:	
Microprocessor controlled for simple operation	✓
Digital display LCD/LED	✓
Temperature Setting: 39°C to 43°C	✓
Preheat Time <2 min or better	✓
Over temperature safety cutoff	✓
Visual & Acoustic Over-temperature & Under-temperature alarms	✓
Flow Rate: Standard (Low to Rapid Flow rate)	✓
Alarm Temperature: Standard (Visual and Acoustic)	✓
Heat Exchanger: Dry	✓
Operating mode: Continuous operation, 24hrs a day continuous duty	✓
No special disposable required	✓
Standard tube size 4mm or equivalent can be attached and should not be brand specified	✓
Safety: Class 1, Type BF, Defibrillation-proof, IPX4	✓
Heat protection sleeve should be provided: To protect from the environmental effect.	(-10 Minor)
Power Requirement:	
1. Line voltages: 100-240VAC	✓
2. Line Frequency: 50/60 Hz	✓
Requirement:	
Certification:	
1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty.	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
After Sales Service Support:	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
Trainings & Manual:	
1. Operating and service manual with troubleshooting and circuit diagram	✓
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
Note:	

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

Page 1 of 2

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MRBS, DMRD, FRCR<sub>2</sub>A, EDIF VIR  
SMBB Institute of Trauma Karachi

**MUHAMMAD FAHEEM**  
SMBB Institute of Trauma


PROF. Dr. Farooq Ahmad  
Department of Radiology  
SMBB Institute of Trauma  
Dow University of Health Sciences - Karachi


**MANAGER**  
SUPPLY CHAIN MANAGEMENT  
SMBB Institute of Trauma Karachi




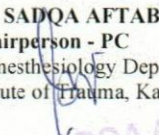
Item #: 06  
Name of Item: BLOOD / FLUID WARMER  
Quantity Required: 01 Unit

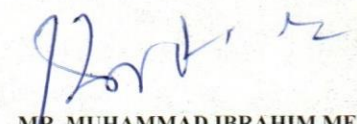
Name of Firms	M/s. Noor International
Make	Keewell Medical Technology (China)
Model	QW618
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40

  
**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

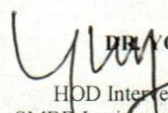
  
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Item #: 07

Name of Item: **ECG MACHINE**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
<b>Make</b>	Nihon kohden (Japan)
<b>Model</b>	CardioFax 2350
<b>Specifications:</b>	
Instruments Type: Multi lead electrocardiography	✓
Input Channels: 12 Channel, Simultaneous Acquisition of all 12 leads	✓
Standard Leads Acquired: I, II, III aVR, aVL, aVF, V1, V2, V3, V4, V5, V6	✓
Waveform Display: Backlit 10" or more display color	(-10 Minor)
Input Impedance Meet or exceed the requirements of ANSI/AAMI/ EC11	✓
Input Dynamic Range	✓
Electrode Offset Tolerance	✓
Common Mode Rejection	✓
Patient Leakage Current Meet or exceed the requirements of ANSI/AAMI ES1	✓
Chassis Leakage Current	✓
Digital Sampling Rate: 30,000 or better samples /second/Channel used for Pacemaker spike detection;	✓
1,000 or better samples /second/Channel used for recording and analysis	✓
Printer Technologies: Thermal Printer;	✓
Thermal Printer Speed: 5, 10, 25 or 50 mm/s	✓
Gain Setting 5, 10 or 20mm /mV or Better	✓
Report Print Formats Standard or Cabrera: 3+1, 3+3, 6, 6+6, & 12 Channel	✓
Frequency Response 0.05 to 300 Hz or Better	✓
Filters High-Performance baseline filter; AC interference filter 50/60 Hz; Low-Pass filters 40Hz, 150 Hz, or 300 Hz	✓
A/D Conversion 20 bits or better	✓
Keyboard Type Full alphanumeric keyboard	✓
Heart Rate Range 30 to 300 bpm or better	✓
Sensitivity /Gain' 1.25, 2.5, 5, 10,20,10/5 mm/mV	✓
Device Classification Class I, Type CF defibrillation-proof applied parts	✓
Data Storage Internal Storage up to 500 files or better	(-10 Minor)
Support for external archiving to the system	✓
Capability to interface with LAN/WLAN for data transfer	✓
File Formats. PDF, SCP, XML, DICOM etc.	✓

**HAMMAD HUSSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma, Karachi

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 Consultant and Head of  
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 SMBB Institute of Trauma Karachi

**MUHAMMAD FAHEEM**  
 PH  
 SMBB Institute of Trauma

**PROF. SANDRA AFTAB**  
 Department of Health Sciences & IJ  
 SMBB Institute of Trauma  
 Dow University of Health Sciences - 20235



Item #: 07

Name of Item: ECG MACHINE

Quantity Required: 01 Unit

Name of Firms	M/s. Noor International
<b>Make</b>	Nihon kohden (Japan)
<b>Model</b>	CardioFax 2350
<b>Power Requirement:</b>	
Line Voltages 100-240 VAC	✓
Line Frequency 50/60Hz	✓
Battery Rechargeable Battery 5 hours or more battery backup	✓
Accessories Complete with standard accessories ECG Leads, Printer paper, Power Cord and Original Mobile Cart with 2 Lockable Caster	✓
<b>Requirement:</b>	
<b>Certification:</b>	
• System should have Certification FDA510k and CE/MHLW/JIS/JQAO	✓
Warranty and Maintenance Period:	✓
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty (battery, keypad, printer & etc. are included).	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
<b>After Sales Service Support:</b>	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram	✓
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
<b>Country of Origin: USA / Europe / JAPAN or equivalent</b>	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	30

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Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**

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Pharmacist,  
SMBB Institute of Trauma, Karachi

MR. BALAL IBREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**MANAGER**

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

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MRS. DMRO, FRCR2A, EDIF, MIR  
SMBB Institute of Trauma, Karachi



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Item #: 08

Name of Item: **PORTABLE SUCTION MACHINE**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
<b>Make</b>	Medela (Switzerland)
<b>Model</b>	Medela Dominant Flex
<b>Specifications:</b>	
1. Should have ability to be used in the emergency dept., intensive care, operating theatre.	✓
2. The pump should have accurate vacuum setting with the vacuum regulator	✓
3. Should have piston/cylinder system for a vibration free and noiseless operation (should be less than 50dB or better.)	✓
4. The vacuum range should start from -95 kPa / 713 mmHg or better.	✓
5. The flow rate should be adjustable from 40 to 60 liter/min.	✓
6. One reusable suction jars of 5 liters, preferable 2 reusable jars of 5 liters.	✓
7. Mobile Trolley Original with two lockable castor	✓
<b>8. Power Requirement:</b>	
Line Voltages 100-240 VAC	✓
Line Frequency 50/60Hz	✓
9. Foot switch ON/OFF	✓
<b>Requirement:</b>	
<b>Certification:</b>	
1. "FDA (510k) / CE / (MDD) / JIS / JQAO / MHLW"	✓
<b>Warranty and Maintenance Period:</b>	
1. <b>Warranty Period required 5 years</b> with maintenance and parts replacement. All the parts are included in the warranty.	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
<b>After Sales Service Support:</b>	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram	✓

**HAMMAD HUSAIN**  
 Biomedical Engineer  
 SMBB Institute of Trauma

**MANAGER**  
 SUPPLY CHAIN MANAGEMENT  
 SMBB Institute of Trauma, Karachi

**Dr. M. Yousuf Memon**  
 Page 1 of 2  
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 MBBS, BMRD, FRCP(A), FRCR, VIR  
 SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**  
 Phd  
 SMBB Institute of Trauma

**FRANCOIS**  
 Department of Health Services  
 Durr University of Health Sciences

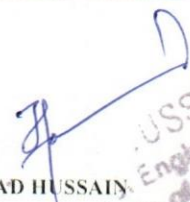


Item #: 08

Name of Item: **PORTABLE SUCTION MACHINE**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
Make	Medela (Switzerland)
Model	Medela Dominant Flex
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
Note:	
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓
COUNTRY OF ORIGIN: JAPAN / EUROPE / UK / USA OR EQUIVALENT	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40


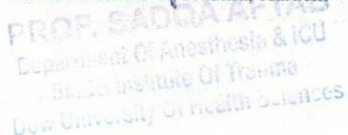
  
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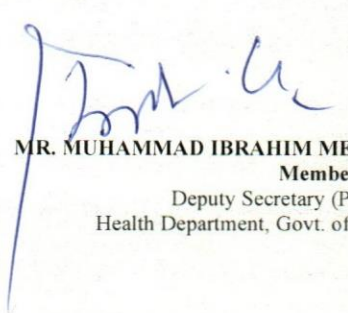
  
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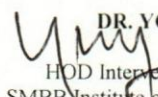
  
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Item #: 09

Name of Item: **DIATHERMY**

Quantity Required: **01 Unit**

Name of Firms	M/s. Popular International (Pvt.) Ltd.	M/s. Popular International (Pvt.) Ltd. (A)	M/s. Noor International
<b>Make</b>	Covidien / Medtronic	WEM / Medtronic	Kentamed Ltd. (Bulgaria)
<b>Model</b>	VLFX8GEN	SS501SX	hARTT 300
<b>Demonstration:</b>			
1. Quoted model demonstration is mandatory in technical approval is subject to satisfactory demonstration.	Satisfactory	Un-Satisfactory Performance	Un-Satisfactory Performance
<b>Specifications:</b>			
1. Microprocessor based electrosurgical unit for normal and under water cutting usages.	✓	-	-
2. Automatic self-test function	✓	-	-
3. Operation in radio frequency range	✓	-	-
4. Controls for cutting, coagulation, spray and blends	✓	-	-
5. Monopolar cutting power of 300 watts or more	✓	-	-
6. Monopolar coagulation power of 100 Watts or more	✓	-	-
7. Bipolar coagulation power of 50 Watts or more	✓	-	-
8. Spray coagulation mode.	✓	-	-
9. Different gradations of blending of cutting and coagulation power	✓	-	-
10. Digital display of all set values of cutting and coagulation power	✓	-	-
11. Audio and visual alarms	✓	-	-
12. Protection against electric shock: CF Class applied part equipment	✓	-	-
13. Protection against harmful water penetration: IPX1 – Protected against vertical water drops	✓	-	-
14. Classification (EC Directive 93/42). Class IIb	✓	-	-
<b>Accessories:</b>			
1. Double footswitch monopolar, single footswitch bipolar, electrode hand-piece, multipurpose electrode set (ball /loop/straight knife/needle), Reusable patient cable for return patient pads, power cable and Reusable silicon patient plate	✓	-	-
<b>Power Requirement:</b>			
1. Line voltages: 100-240VAC	✓	-	-
2. Line Frequency: 50/60 Hz	✓	-	-
<b>Requirement:</b>			
<b>Certification:</b>			
1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	✓	-	-
<b>Warranty and Maintenance Period:</b>			
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty.	✓	-	-
2. PPM must be done according to the OEM criteria in warranty period	✓	-	-
3. Up-time guarantee during warranty period must be 90 -95%	✓	-	-
<b>After Sales Service Support:</b>			
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓	-	-
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓	-	-
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓	-	-
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓	-	-

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**IBB Institute of Trauma, Karachi**

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**MUHAMMAD FAHEEM**  
**SMBB Institute of Trauma**

**Dr. M. Yousaf Memon**  
Department of Interventional Radiology  
SMBB Institute of Trauma  
Dow University of Health Sciences



Item #: 09

Name of Item: **DIATHERMY**

Quantity Required: **01 Unit**

Name of Firms	M/s. Popular International (Pvt.) Ltd.	M/s. Popular International (Pvt.) Ltd. (A)	M/s. Noor International
Make	Covidien / Medtronic	WEM / Medtronic	Kentamed Ltd. (Bulgaria)
Model	VLFX8GEN	SS501SX	hARTT 300
<b>Trainings &amp; Manual:</b>			
1. Operating and service manual with troubleshooting and circuit diagram	✓	-	-
2. In house operator training session for end user	✓	-	-
3. In house service training session for Biomedical by Principle Certified resource	✓	-	-
<b>Note:</b>			
Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.	✓	-	-
<b>COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK OR EQUIVALENT</b>	✓	-	-
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks 2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks 3. Above 10% / Non-compliant to required specifications (Disqualified).	40	0	0

MR. HAMMAD HUSSAIN

Member - PC

Bio-Medical Engineer,

SMBB Institute of Trauma, Karachi

MR. MUHAMMAD FAHEEM

Member - PC

Pharmacist,

SMBB Institute of Trauma, Karachi

MR. BILAL IDREES

Member - PC

Manager Supply Chain Management,

SMBB Institute of Trauma, Karachi

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

PROF. SADQA AITAB

Chairperson - PC

HOD ICU & Anesthesiology Department,

SMBB Institute of Trauma, Karachi

MR. MUHAMMAD IBRAHIM MEMON

Member - PC

Deputy Secretary (PM&I),

Health Department, Govt. of Sindh

PROF. DR. BADDARUDDIN SAHITO

Member - PC

Head of the Department of Orthopaedic Surgery,

Dow University of Health Sciences &

Dr. Ruth K.M.Pfau Civil Hospital, Karachi

DR. YOUSUF MEMON

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HOD Interventional Radiology,

SMBB Institute of Trauma, Karachi

Consultant and Head of

Interventional Radiology

MRBS, DMRD, FRCR, A, EDIR VIR

SMBB Institute of Trauma Karachi



**SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI**  
**BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS**  
**TECHNICAL EVALUATION**

PPMS ID #

T00518-23-0005

TENDER REFERENCE #

PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025

DATE & TIME OPENING OF TECHNICAL PROPOSAL:

14-03-2024 AT 11:30 AM

TENDER TITLE:

**PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT**

Item #: 11

Name of Item: Syringe Pump

Quantity Required: 01 Unit

Name of Firms	M/s. Noor International
<b>Make</b>	Medcaptain (Shenzhen, China)
<b>Model</b>	SYS-50
<b>Specifications:</b>	
1. Automatic identify different size (5/10/20/30/50/60ml).	✓
2. Should have 3 infusion mode or more	✓
3. Display should be more than 3 inch.	✓
4. Light Design, with battery backup	✓
5. Rate Range: 0.1-1500ml/h or more, with 0.01ml/h increment	✓
6. Total volume displays 0.1-9999.9ml	✓
7. Mechanical accuracy ±1%, accuracy including syringe ±2%.	✓
8. Selectable bolus modes (Manual and automatic)	✓
9. KVO Rate: 0.1ml/h to 5ml/h adjustable	✓
10. Should be able to change infusion rate during infusion without stopping	✓
11. Occlusion level: 03 or more levels, alarm with audio/visual reminder.	✓
12. Calibration function, self-definition for all syringes compliant to the standard	✓
13. All kinds of alarms: Nearly empty; Infusion complete; Occlusion; No battery; Low battery; No AC power; No DC power; Plunger/clutch disengaged Syringe disengaged; Reminder; Self-test error, invalid rate, and the limited volume less than or equal to total volume	✓
14. Special function;	✓
a) Repeat alarming: If there is still alarm after mute alarm sound, it will alarm again in 2 minutes	✓
b) Record of 3000 entries or more can be stored and reviewed	(-10 Minor)
c) Alarm volume setting: Visual and voice available	✓
d) Power supply switching: When AC/DC power supply is cut off, the infusion automatically switches to internal battery supply	✓
e) Screen Lock function in touch screen option	✓
15. Power Requirement:	✓
Line voltages: 100-240VAC	✓
Line Frequency: 50/60 Hz	✓
16. Battery backup 6 hours or more.	✓
17. Power Unit Waterproof design to prevent the liquid drop, IPX24 or better	✓
18. Interface port for data output and nurse call	✓
19. Should have certification to use in harsh condition like ambulances and medical transportation vehicle	✓
<b>Requirement:</b>	
<b>Certification:</b>	
1. System should have Certification FDA510k/CE (MDD) / JIS or JQAO.	✓
<b>Warranty and Maintenance Period:</b>	

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

Page 1 of 2

**MUHAMMAD FAHEEM**  
Head of  
Interventional Radiology  
MBBS, DMRD, FRCR<sub>2A</sub>, EDIF<sub>2</sub> VIR  
SMBB Institute of Trauma, Karachi

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**FRANCIS ANTONIO**  
Chairman  
SMBB Institute of Trauma, Karachi



Item #: 11

Name of Item: Syringe Pump

Quantity Required: 01 Unit

Name of Firms	M/s, Noor International
<b>Make</b>	Medcaptain (Shenzhen, China)
<b>Model</b>	SYS-50
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty.	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
<b>After Sales Service Support:</b>	
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram	✓
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
<b>Country of Origin: USA / Europe / JAPAN or equivalent</b>	
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks	30
2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks	
3. Above 10% / Non-compliant to required specifications (Disqualified).	

MR. HAMMAD HUSSAIN  
Member - PC  
Bio-Medical Engineer  
SMBB Institute of Trauma, Karachi

**MUHAMMAD FAHEEM**

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Pharmacist,  
SMBB Institute of Trauma, Karachi

MR. BILAL IDREES  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

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Item #: 12

Name of Item: **PORTABLE OPERATION THEATER LIGHT**

Quantity Required: **01 Unit**

Name of Firms	M/s. Noor International
Make	Simeon Medical GmbH & Co. (Germany)
Model	Sim.LED 450MC
Specifications:	
1. Unit should have Clarity of vision, optimum performance	✓
2. Unit should have Concentrated light source	✓
3. Unit should have Patented, proven reflector technology	✓
4. Unit should have No color deterioration	✓
5. Unit should have Cool light	✓
6. Unit should be User-friendly	✓
7. Unit should have Optimum hygiene	✓
8. Unit should have Ultra-reliable lighting	✓
9. Unit should have Safety glass for best possible clarity.	✓
10. Unit Should Have Sterilize-able and Remove-able Handles	✓
11. Unit Should have dust protection	✓
12. Should have light intensity of main light 120,000 lux	✓
13. Should have Color temperature adjustment 3500 - 5500 Kelvin	✓
14. Should have Electric field adjustment.	✓
15. Should have Focusable light field size d10 at 1m of light should be 180 mm -300 mm or better	✓
16. Should have Temperature increase at head height < 1 °C	✓
17. Should have color rendering index to 99 Ra or above.	✓
18. Life time of LED should be 50,000 hours or more.	✓
19. Should have built-in battery backup more than 3 hours or more.	✓
20. Original trolley with flexible arm for height adjustment and two lockable castors.	✓
Power Requirement:	
1. Line voltages: 100-240VAC	✓
2. Line Frequency: 50/60 Hz	✓
Requirement:	
Certification:	
1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	✓
Warranty and Maintenance Period:	
1. Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty.	✓
2. PPM must be done according to the OEM criteria in warranty period	✓
3. Up-time guarantee during warranty period must be 90 -95%	✓
After Sales Service Support:	

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**Dr. M. Yousuf Memon**  
Consultant and Head of  
Interventional Radiology  
MRBS, DMRD, FRCR<sub>2A</sub>, EDIR VIR  
SMBB Institute of Trauma Karachi

**MUHAMMAD FAHEEM**

**SMBB Institute of Trauma**

**PROF. DR. AFTAB**  
Department of Radiology & IBCU  
SMBB Institute of Trauma  
Dow University of Health Sciences

**MANAGER**  
**SUPPLY CHAIN MANAGEMENT**  
**SMBB Institute of Trauma, Karachi**




Item #: 12

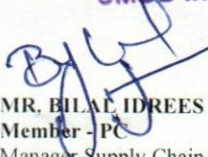
Name of Item: **PORTABLE OPERATION THEATER LIGHT**

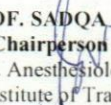
Quantity Required: **01 Unit**

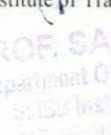
Name of Firms	M/s. Noor International
<b>Make</b>	Simeon Medical GmbH & Co. (Germany)
<b>Model</b>	Sim.LED 450MC
1. Free of cost software installation and up gradation would be responsibility of manufacturer and its authorized distributor for upcoming next ten years after installation of quoted model.	✓
2. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by OEM.	✓
3. Required surety of service support and parts from the manufacturer, in case of transfer agency/ distributor	✓
4. Response to breakdown during and after warranty period must be 1-3 Hours	✓
<b>Trainings &amp; Manual:</b>	
1. Operating and service manual with troubleshooting and circuit diagram	✓
2. In house operator training session for end user	✓
3. In house service training session for Biomedical by Principle Certified resource	✓
<b>Note:</b>	
<b>Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) is the responsibility of awarded firm/supplier.</b>	✓
<b>COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT</b>	✓
1. Fully compliant with the required tender specifications (Product Demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation) 40 Marks	40
2. Compliant with minor deviation (up to 10 % subject to main function is not affected) 30 Marks	
3. Above 10% / Non-compliant to required specifications (Disqualified).	

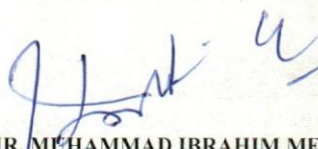
  
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 Biomedical Engineer  
 Member - PC  
 Bio-Medical Engineer,  
 SMBB Institute of Trauma, Karachi

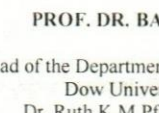
  
**MUHAMMAD FAHEEM**  
 Member - PC  
 Pharmacist,  
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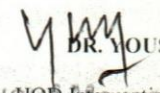
  
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 SMBB Institute of Trauma, Karachi  
**SUPPLY CHAIN MANAGEMENT**  
 SMBB Institute of Trauma, Karachi

  
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 Chairperson - PC  
 HOD ICU & Anesthesiology Department,  
 SMBB Institute of Trauma, Karachi

  
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 Department Of Anesthesia & ICU  
 SMBB Institute Of Trauma  
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S.#	Item Name	QTY	Product Description / Specification	Company Name	Brand Name / Make	Model	Total Technical Scoring	Technical Scoring	Total Quoted Price	Lowest Quoted price	Maximum Allocable unit price	Score Awarded to the unit price	Total Score of Technical + score Awarded to the unit price	Product Ranks highest in the Combined Evaluation	TOTAL AMOUNT	Successful Bidder
1	Powder Coated SS304 Modular Wall Panel System with lead lining for Hybrid OT		As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland)	WP.SSP.304I	77	53.9	12,000,000	12,000,000	30	30	83.9	Most Advantageous Bid	12,000,000.00	M/s. Allmed Solutions
2	Decorative Glass Wall Panels with Picture for Hybrid Operation Theaters (1 Wall of OT)		As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland)	WP.DGP.000I	77	53.9	7,000,000	7,000,000	30	30	83.9	Most Advantageous Bid	7,000,000.00	M/s. Allmed Solutions
3	SURGEON CONTROL PANEL WITH TOUCH SCREEN	1	As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland)	OPERA	77	53.9	4,380,000	4,380,000	30	30	83.9	Most Advantageous Bid	4,380,000.00	M/s. Allmed Solutions
4	STAINLESS STEEL MEDICAL CABINET FOR STORAGE	2	As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland)	MC-65.3	77	53.9	8,200,000	8,200,000	30	30	83.9	Most Advantageous Bid	8,200,000.00	M/s. Allmed Solutions
5	CLEAN ROOM METAL CEILING SYSTEM FOR OPERATION THEATERS		As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland) / FURL	CC.GSP.000I-6060 I 20120	77	53.9	2,262,000	2,262,000	30	30	83.9	Most Advantageous Bid	2,262,000.00	M/s. Allmed Solutions
6	AUTOMATIC SLIDING DOOR FOR OPERATION THEATER WITH LEAD SHIELDING IN DOOR LEAF		As per Mentioned in SBD	M/s. Allmed Solutions	Imported	Imported	77	53.9	18,500,000	18,500,000	30	30	83.9	Most Advantageous Bid	18,500,000.00	M/s. Allmed Solutions
7	AUDIO VIDEO MANAGEMENT DOCUMENTATION & COMMUNICATION		As per Mentioned in SBD	M/s. Allmed Solutions	KARLZ STORZ (Germany)	OR1 Air	77	53.9	37,000,000	37,000,000	30	30	83.9	Most Advantageous Bid	37,000,000.00	M/s. Allmed Solutions
8	DIGITAL MULTIVIEWER WITH PACS CONNECTIVITY		As per Mentioned in SBD	M/s. Allmed Solutions	KARLZ STORZ (Germany)	WM103	77	53.9	12,500,000	12,500,000	30	30	83.9	Most Advantageous Bid	12,500,000.00	M/s. Allmed Solutions
9	MANUAL SINGLE LEAF HINGED DOOR		As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland)	MD.SSB-304.SW1-105210	77	53.9	5,740,000	5,740,000	30	30	83.9	Most Advantageous Bid	5,740,000.00	M/s. Allmed Solutions
10	RGB CLEAN ROOM PERIPHERAL LIGHTS FOR OPERATION THEATERS		As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp. z o. o. (Poland) / ATENA LUX (Italy)	438100234	77	53.9	5,350,000	5,350,000	30	30	83.9	Most Advantageous Bid	5,350,000.00	M/s. Allmed Solutions
11	STATIC DISSIPATIVE HOMOGENOUS VINYL FLOORING FOR OPERATION THEATERS		As per Mentioned in SBD	M/s. Allmed Solutions	FORBO Flooring Systems (Switzerland)	Colorex SD	77	53.9	2,280,000	2,280,000	30	30	83.9	Most Advantageous Bid	2,280,000.00	M/s. Allmed Solutions
12	HOMOGENOUS VINYL FLOORING FOR CONOTRL AND OTHER AREA		As per Mentioned in SBD	M/s. Allmed Solutions	FORBO Flooring Systems (Switzerland)	Sphera Element	77	53.9	400,000	400,000	30	30	83.9	Most Advantageous Bid	400,000.00	M/s. Allmed Solutions
13	HYBIRD LAMINAR AIR FLOW CEILING	1	As per Mentioned in SBD	M/s. Allmed Solutions	MANN+HUMMEL Vokes Air GMBH (Austria)	FM3-P-90-H14	77	53.9	27,250,000	27,250,000	30	30	83.9	Most Advantageous Bid	27,250,000.00	M/s. Allmed Solutions
14	FLUFF SEPARATORS FOR RETURN AIR NEAR CEILING		As per Mentioned in SBD	M/s. Allmed Solutions	MANN+HUMMEL Vokes Air GMBH (Austria)	OPTIFLU	77	53.9	584,000	584,000	30	30	83.9	Most Advantageous Bid	584,000.00	M/s. Allmed Solutions
15	FLUFF SEPARATORS FOR RETURN AIR NEAR FLOOR		As per Mentioned in SBD	M/s. Allmed Solutions	MANN+HUMMEL Vokes Air GMBH (Austria)	OPTIFLU	77	53.9	584,000	584,000	30	30	83.9	Most Advantageous Bid	584,000.00	M/s. Allmed Solutions
16	HYGENIC AIR HANDLING UNIT	1	As per Mentioned in SBD	M/s. Allmed Solutions	ROBATHERM (Germany)	TI Series	85	59.5	42,400,000	42,400,000	30	30	89.5	Most Advantageous Bid	42,400,000.00	M/s. Allmed Solutions
17	APPARATUS CONTROL PANEL	1	As per Mentioned in SBD	M/s. Allmed Solutions	Local Best Quality	Local Best Quality	77	53.9	900,000	900,000	30	30	83.9	Most Advantageous Bid	900,000.00	M/s. Allmed Solutions
18	DIRECT DIGITAL CONTROLS FOR HVAC SYSTEM		As per Mentioned in SBD	M/s. Allmed Solutions	Arttek or Johnson Controls of Schneider Electric (Europe/Japan)	USA	77	53.9	2,300,000	2,300,000	30	30	83.9	Most Advantageous Bid	2,300,000.00	M/s. Allmed Solutions
	HYBRID ENDOSCOPIC WORKS		As per Mentioned in SBD	M/s. Allmed Solutions	Local Best Quality	Local Best Quality	77	53.9	2,500,000	2,500,000	30	30	83.9	Most Advantageous Bid	2,500,000.00	M/s. Allmed Solutions



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20	INSULATION	Operation Rooms (As per site requirement)	As per Mentioned in SBD	M/s. Allmed Solutions	XLPE / THERMOBREAK	-	77	53.9	950,000	950,000	30	30	83.9	Most Advantageous Bid	950,000.00	M/s. Allmed Solutions
21	EXHAUST FAN (CEILING SUSPENDED)	Operation Rooms (As per site requirement)	As per Mentioned in SBD	M/s. Allmed Solutions	ROBATHERM (Germany)	Will be after approval of design	85	59.5	2,450,000	2,450,000	30	30	89.5	Most Advantageous Bid	2,450,000.00	M/s. Allmed Solutions
22	SINGLE DOME LED OPERATING LIGHT WITH SECOND ARM FOR MONITOR	2	As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp.zo.o (Poland) / FORESEESON (Korea)	Proxy OL-031 HDC-021 FS-L3202D or Equivalent	72	50.4	25,300,000	25,300,000	30	30	80.4	Most Advantageous Bid	25,300,000.00	M/s. Allmed Solutions
23	ELECTRIC WINDOW BLINDS with LEAD PROTECTION	Operation Rooms (As per site requirement)	As per Mentioned in SBD	M/s. Allmed Solutions	Imported	Imported	77	53.9	1,950,000	1,950,000	30	30	83.9	Most Advantageous Bid	1,950,000.00	M/s. Allmed Solutions
24	STAINLESS STEEL SURGICAL SCRUB WITH KNEE & SENSOR OPERATION	1	As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp.zo.o. (Poland)	SU-02.2 (With Infrared water dispenser)	77	53.9	4,380,000	4,380,000	30	30	83.9	Most Advantageous Bid	4,380,000.00	M/s. Allmed Solutions
25	LED X-RAY FILM ILLUMINATOR FOR OPERATING ROOM	1	As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp.zo.o (Poland) / ULTRAVIOL	LED NGP 31	77	53.9	1,025,000	1,025,000	30	30	83.9	Most Advantageous Bid	1,025,000.00	M/s. Allmed Solutions
26	DUAL ARM SURGICAL PENDANT	1	As per Mentioned in SBD	M/s. Allmed Solutions	G. Samaras S.A (Greece)	Thermi	77	53.9	5,400,000	5,400,000	30	30	83.9	Most Advantageous Bid	5,400,000.00	M/s. Allmed Solutions
27	DUAL ARM ANESTHESIA PENDANT	1	As per Mentioned in SBD	M/s. Allmed Solutions	G. Samaras S.A (Greece)	THESSALLONIKI	77	53.9	5,400,000	5,400,000	30	30	83.9	Most Advantageous Bid	5,400,000.00	M/s. Allmed Solutions
28	Electrical Cable Work - Misc. for OT's & AHU	Operation Rooms (As per site requirement)	As per Mentioned in SBD	M/s. Allmed Solutions	-	-	77	53.9	1,400,000	1,400,000	30	30	83.9	Most Advantageous Bid	1,400,000.00	M/s. Allmed Solutions
<b>Optional Items Mandatory to Quote</b>																
1	Portable surface & Ducts decontamination system using dry fog process	1	As per Mentioned in SBD	M/s. Allmed Solutions	Air in Space (France)	X-CID (CP01038-1)	77	53.9	3,500,000	3,500,000	30	30	83.9	Most Advantageous Bid	3,500,000.00	M/s. Allmed Solutions
2	Hand Held Particle Counter	1	As per Mentioned in SBD	M/s. Allmed Solutions	TSI Inc. (USA)	9310-02	77	53.9	4,500,000	4,500,000	30	30	83.9	Most Advantageous Bid	4,500,000.00	M/s. Allmed Solutions
3	DOUBLE WING MANUAL DOOR FOR CLEAN CORRIDOR WITH ACCESS CONTROL	1	As per Mentioned in SBD	M/s. Allmed Solutions	INFIMED Sp.zo.o. (Poland)	MD.SSB-304.SW1-105210	77	53.9	7,450,000	7,450,000	30	30	83.9	Most Advantageous Bid	7,450,000.00	M/s. Allmed Solutions
4	EXO-Scope	1	As per Mentioned in SBD	M/s. Allmed Solutions	-	AQV A-5-1 EXO	77	53.9	108,500,000	108,500,000	30	30	83.9	Most Advantageous Bid	108,500,000.00	M/s. Allmed Solutions
5	UVC AIR DISINFECTION FOR AIR DUCT	1	As per Mentioned in SBD	M/s. Allmed Solutions	Sanuvox Inc. (Canada)	BIOM-30/40	77	53.9	12,400,000	12,400,000	30	30	83.9	Most Advantageous Bid	12,400,000.00	M/s. Allmed Solutions
<b>INDIVIDUAL ITEM LIST</b>																
1	ANESTHESIA MACHINE WITH VENTILATOR	1	As per Mentioned in SBD	M/s. Noor International	Penlon (UK)	Prima 4053	70	49	14,800,000	14,800,000	30	30	79	Most Advantageous Bid	14,800,000.00	M/s. Noor International
2	PATIENT MONITOR FOR OPERATION THEATER	1	As per Mentioned in SBD	M/s. Noor International	Nihon Kohden	BSM-5500	88	61.6	3,300,000	3,300,000	30	30	91.6	Most Advantageous Bid	3,300,000.00	M/s. Noor International
3	PORTABLE MONITOR	1	As per Mentioned in SBD	M/s. Noor International	CRISONA (Sweden)	Vital 44	88	61.6	790,000	790,000	30	30	91.6	Most Advantageous Bid	790,000.00	M/s. Noor International
4	ULTRASONIC DOPPLER	1	As per Mentioned in SBD	M/s. Biologic Medical Systems	Huntleigh Health Care Ltd. (UK)	Dopplex DMX	75.6	52.92			30	30	82.92	Most Advantageous Bid	3,018,750.00	M/s. Biologic Medical Systems

MANAGER  
**SMBB Institute of Trauma, Karachi**

**HAJMA HUSSAIN**  
Biomedical Engineer  
**SMBB Institute of Trauma**

**Dr. M. Yousuf Hanif**  
Consultant and Head of  
Interventional Radiology  
**SMBB Institute of Trauma Karachi**

**MUHAMMAD FAHEEM**  
**SMBB Institute of Trauma**

**PROF. SADQA AFTAB**  
Department of Anesthesia & ICU  
**SMBB Institute of Trauma**



# SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

## BIDS EVALUATED ON MOST ADVANTAGEOUS BID BASIS

### FINANCIAL EVALUATION

PPMS ID # T00518-23-0005  
TENDER REFERENCE # PROC/SMBBIT/(ADP # 1242 /(2022-2023A)/2024-2025  
DATE & TIME OPENING OF TECHNICAL PROPOSAL: 14-03-2024 AT 11:30 AM

TENDER TITLE: PROCUREMENT & ESTABLISHMENT OF HYBRID ENDOVASCULAR SURGERY MODULAR OPERATING ROOM FACILITY WITH COMPLETE CIVIL WORKS ON TURNKEY BASIS. SOME INTEGRATED MEDICAL EQUIPMENT'S WITH INSTALLATION, TESTING & COMMISSIONING COMPLETE JOB AT 6th FLOOR SMBBIT

S.#	Item Name	QTY	Product Description / Specification	Company Name	Brand Name / Make	Model	Total Technical Scoring	Technical Scoring	Total Quoted Price	Lowest Quoted price	Maximum Allocable unit price	Score Awarded to the unit price	Total Score of Technical + score Awarded to the unit price	Product Ranks highest in the Combined Evaluation	TOTAL AMOUNT	Successful Bidder
5	PATIENT WARMER (WATER BASED)	1	As per Mentioned in SBD	M/s. Noor International	Keewell Medical Technology (China)	KPW4000	73.3	51.31	1,300,000	1,300,000	30	30	81.31	Most Advantageous Bid	1,300,000.00	M/s. Noor International
6	BLOOD / FLUID WARMER	1	As per Mentioned in SBD	M/s. Noor International	Keewell Medical Technology (China)	QW618	73.3	51.31	550,000	550,000	30	30	81.31	Most Advantageous Bid	550,000.00	M/s. Noor International
7	ECG MACHINE	1	As per Mentioned in SBD	M/s. Noor International	Nihon kohden (Japan)	CardioFax 2350	74	51.8	1,190,000	1,190,000	30	30	81.8	Most Advantageous Bid	1,190,000.00	M/s. Noor International
8	PORTABLE SUCTION MACHINE	1	As per Mentioned in SBD	M/s. Noor International	Medela (Switzerland)	Medela Dominant Flex	86	60.2	1,800,000	1,800,000	30	30	90.2	Most Advantageous Bid	1,800,000.00	M/s. Noor International
9	DIATHERMY	1	As per Mentioned in SBD	M/s. Popular International (Pvt.) Ltd.	Covidien / Medtronic	VLFX8GEN	76	53.2	4,500,000	4,500,000	30	30	83.2	Most Advantageous Bid	4,500,000.00	M/s. Popular International (Pvt.) Ltd.
11	Syringe Pump	1	As per Mentioned in SBD	M/s. Noor International	Medcaptain (Shenzhen, China)	SYS-50	74.6	52.22	240,000	240,000	30	30	82.22	Most Advantageous Bid	240,000.00	M/s. Noor International
12	PORTABLE OPERATION THEATER LIGHT	1	As per Mentioned in SBD	M/s. Noor International	Simcon Medical GmbH & Co. (Germany)	Sim LED 450MC	84.3	59.01	3,250,000	3,250,000	30	30	89.01	Most Advantageous Bid	3,250,000.00	M/s. Noor International

**Dr. M. Yousuf Memon**  
Consultant and Head of Interventional Radiology  
MBBS, DPM, FRCR, EDIP, VIR  
SMBB Institute of Trauma, Karachi

**DR. YOUSUF MEMON**  
Member - PC  
HOD Interventional Radiology,  
SMBB Institute of Trauma, Karachi

**MR. BILAL IDREES**  
Member - PC  
Manager Supply Chain Management,  
SMBB Institute of Trauma, Karachi

**SUPPLY CHAIN MANAGEMENT**  
SMBB Institute of Trauma, Karachi

**PROF. SADQA AFTAB**  
Chairperson - PC  
HOD ICU & Anesthesiology Department,  
SMBB Institute of Trauma, Karachi

**MR. MUHAMMAD IBRAHIM MEMON**  
Member - PC  
Deputy Secretary (PM&I)  
Health Department, Govt. of Sindh

**MR. HAMMAD HUSSAIN**  
Member - PC  
Bio-Medical Engineer,  
SMBB Institute of Trauma, Karachi

**HAMMAD HUSSAIN**  
Biomedical Engineer  
SMBB Institute of Trauma

**PROF. DR. BADDARUDDIN SAHITO**  
Member - PC  
Head of the Department of Orthopaedic Surgery,  
Dow University of Health Sciences &  
Dr. Ruth K.M Pfau Civil Hospital, Karachi

**MUHAMMAD FAHEEM**  
Member - PC  
Pharmacist,  
SMBB Institute of Trauma, Karachi