

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**  
**ATTENDANCE OF TEC**

A Meeting of (TEC) Technical Evaluation Committee for the Installation of (02) Two Modular Operation Theatres (Brand New) On Pay For Performance Basis held on 29-01-2024 @ 11:30 am in the Conference Room of this Institute.

Sr#	Name of Items	Date & Time
1	Installation of (02) Two Modular Operation Theatres (Brand New) On Pay For Performance Basis	29-01-2024 @ 11:30 am

  
**Prof. Dr. Muhammad Tahir Mohyuddin**  
Professor of Cardiology  
CPEIC, Multan  
(Chairman TEC)

  
**Dr. Mustafa Ali Siddique**  
Prof. of Radiology  
CPEIC, Multan  
(Member)

  
**Dr. Waqas Hamid**  
Assistant Prof. of Cardiac Surgery/ End-User,  
CPEIC, Multan  
(Co-Member)

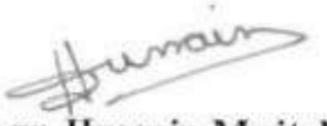
  
**Dr. Fayyaz Ahmad Hashmi**  
Principal Medical Officer  
CPEIC, Multan  
(Member)

  
**Dr. Amir Farqan**  
Assistant Professor of Anaesthesia / End-User  
CPEIC, Multan  
(Co-Member)

  
**Dr. Muhammad Suhail Saleemi**  
Asst. Prof. of Cardiology  
CPEIC, Multan  
(Member)

  
**Dr. Usman Riaz**  
Asst. Prof. of Paediatric Cardiac Surgery  
CPEIC, Multan  
(Member)

  
**Dr. Muhammad Waqas**  
D.M.S Technical  
CPEIC, Multan  
(Member)

  
**Engr. Hussain Mujtaba**  
Biomedical Engineer  
CPEIC, Multan (Member)

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**MINUTES OF THE MEETING**

A meeting of TEC "Technical Evaluation Committee" for the Installation of (02) Two Modular Operation Theatres (Brand New) On Pay For Performance Basis for Ch. Pervaiz Elahi Institute of Cardiology, Multan was held under the chairmanship **Prof. Dr. Muhammad Tahir Mohyuddin** Professor of Cardiology & Chairman TEC, and Dated: 29-01-2024 @ 11:30 am in the Conference Room of this institute. The following members were present in the meeting

1	<b>Prof. Dr. Muhammad Tahir Mohyuddin</b> , Professor of Cardiology, CPEIC, Multan	<b>(Chairman TEC)</b>
2	<b>Dr. Mustafa Ali Siddique</b> , Professor of Radiology, CPEIC, Multan	<b>Member</b>
3	<b>Dr. Waqas Hamid</b> , Assistant Prof. of Cardiac Surgery/ End-User, CPEIC, Multan	<b>Co-Member</b>
4	<b>Dr. Fayyaz Ahmad Hashmi</b> , Principal Medical Officer, CPEIC, Multan	<b>Member</b>
5	<b>Dr. Muhammad Suhail Saleemi</b> , Asst. Prof. of Cardiology, CPEIC, Multan	<b>Member</b>
6	<b>Dr. Amir Furqan</b> , Assistant Professor of Anaesthesia / End-User , CPEIC, Multan	<b>Co-Member</b>
7	<b>Dr. Usman Riaz</b> , Asst. Prof. of Paediatric Cardiac Surgery, CPEIC, Multan	<b>Member</b>
8	<b>Dr. Muhammad Waqas</b> , D.M.S Technical, CPEIC, Multan	<b>Member</b>
9	<b>Engr. Hussain Mujtaba</b> , Biomedical Engineer, CPEIC, Multan	<b>Member</b>

AGENDA: **TECHNICAL EVALUATION FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATRES (BRAND NEW) ON PAY FOR PERFORMANCE BASIS FOR CPEIC MULTAN, FOR THE FINANCIAL YEAR 2023-24**

PROCEEDINGS:

Following 03 Nos. firms participated in the tender:

- M/S Vertex Medical (Pvt) Ltd
- M/S Mediland Pakistan (Pvt) Ltd
- M/S Radiant Medical (Pvt) Ltd

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

**BID EVALUATION SHEET**

**Name of the Equipment & Quantity:** Installation of Modular Operation Theatre, Qty: 2

**Part 1:**

**KNOCK DOWN CRITERIA (COMMERCIAL EVALUATION)**

All Evaluation Parameters defined below are mandatory for Compliance

S/N	Evaluation Parameters	M/S Vertex Medical (Pvt) Ltd	M/S Mediland Pakistan (Pvt) Ltd	M/S Radiant Medical (Pvt) Ltd
1	Legal Registered Entity	Yes	Yes	Yes
2	Original Receipt of Tender	Yes	Yes	Yes
3	Valid and Active NTN, PST and GST Certificates	Yes	Yes	Yes
4	A Lead bidder may be any one of following: Foreign Manufacturers of Modular Operation Theater or Sole Agents / Authorized Distributor of Foreign Manufacturers of Modular Operation Theater with Minimum Three (03) Installations of Modular Operation Theater of Foreign Manufacturer during last 05 Years in Public Sector Institution of Pakistan with the team of concerned Certified Engineers/Application Experts. Procuring Agency through its inspection committee may visit the sites to validate claim.	Yes	Yes	Yes
5	Undertaking / Statement on Stamp Paper of Rs. 100/- that the Party including the director and the owners is not a subject of bankruptcy proceedings, receivership, administration receivership, or any other form of liquidation	Yes	Yes	Yes
6	Undertaking on Stamp Paper of Rs.100/- that the applicant (s) / Firm (s) is not blacklisted currently by any Government (Federal, Provincial), a local body or a public sector organization)	Yes	Yes	Yes
7	The bidder shall comply with the Technical Specs. The bidder will provide Make, Model and Country of Origin of the quoted system along with Technical Data Sheet of quoted system including main accessories.	Yes	Yes	Yes

*Handwritten signatures and initials:* Hunain, [Signature], [Signature], [Signature], [Signature], [Signature], [Signature]

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

8	Provision of Clinical / Technical HR Minimum 10 Nos of Staff. Clinical / Technical HR Includes Engineers Trained on Modular Operation Theaters along with necessary equipment's Repair / Technicians.	Yes	Yes	Yes
9	Average Financial Turnover of Applicant to the tune PKR. 500 Million For Last Three Years (duly supported by Audited financial statements) FY 2020-21, 2021-22 & 2022-23.	Yes	Yes	Yes
10	Undertaking / Statement on Stamp Paper of 100 Rs. regarding Maintenance of Management Record of applicant firm.	Yes	Yes	Yes
11	ISO / Quality Management System Certification of the applicant.	Yes	Yes	Yes
12	Compliance with defined quality standards for relevant equipment's (FDA (510K)/ CE/ MHLW as mentioned in the specifications)	Yes	Yes	Yes
13	The Bidder shall submit an implementation and execution strategy for the execution of the project.	Yes	Yes	Yes
	<b>REMARKS</b>	<b>Eligible for further evaluation of Part II</b>	<b>Eligible for further evaluation of Part II</b>	<b>Eligible for further evaluation of Part II</b>

**Part 2:**

**KNOCK DOWN CRITERIA (COMMERCIAL EVALUATION)**

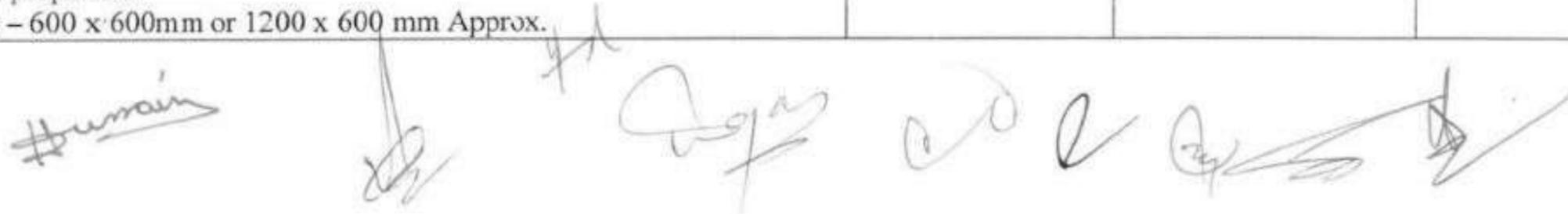
All Evaluation Parameters defined below are mandatory for Compliance

S/N	Evaluation Parameters	M/S Vertex Medical (Pvt) Ltd	M/S Mediland Pakistan (Pvt) Ltd	M/S Radiant Medical (Pvt) Ltd
<b>MODULAR OPERATION THEATRE</b>				
1	Brand	SORIMA HOSPITAL DEVELOPMENT (SHD)	VISSMANN TECHNOLOGY GMBH (VITEC)	HT- Group
2	Country of Manufacturer	ITALY	GERMANY	GERMANY
3	Country of origin of product / Model Number	ITALY	GERMANY	GERMANY
4	Product Local Market Business History as mentioned in criteria	YES	YES	YES
5	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW, CE as mentioned in the specifications)	CE	CE	CE

*Handwritten signatures and initials are present below the table.*

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S/N	Evaluation Parameters	M/S Vertex Medical (Pvt) Ltd	M/S Mediland Pakistan (Pvt) Ltd	M/S Radiant Medical (Pvt) Ltd
1	<p><b>WALL PANELING SYSTEM</b></p> <p><b>Material</b> – Galvanized or Stainless steel AISI304 with gauge and thickness of metal sheet of min. 0.8 mm or more. Glass thickness 6mm to 10 mm. Glass panel reinforced by minimum 0.8mm galvanized sheet or aluminum and supported by Gimsa board 12 mm or better Plaster board on back of panel 12 mm or more.</p> <p><b>Finish</b> – Should be Powder Coated in any Color with antimicrobial protection.</p> <p><b>Joints</b>–The wall panels should be fixed on the sub-structure leaving intermediate space between the panel sand will be filled with silicon seal or gasket. Resistant to UV, detergents, bactericidal products.</p> <p><b>Corners</b>–Wall to wall and wall to ceiling connections should be rounded or coved made of metal sheet powder coated finishing like the wall panels and smoothly integrated with the wall panels.</p> <p>Services/utilities Outlet Panel– should be provided for the on-wall utility and service outlets at least on two walls with minimum four sockets of each.</p> <p><b>Sub-Structure Profiles</b>-Floor rails should be made of galvanized steel sheet of appropriate thickness with base height. Fastened with screws and dowels over leveled screed. The sectional supports should be suitable to support the wall panels. Lead Lining will be installed for both OT's as per drawing.</p>	<p>Yes (Model: SL.C.001) (Material: Galvanized steel) (1600 Sq ft)</p>	<p>Yes (Model: SLP 101) (Material: Galvanized steel)</p>	<p>Yes (Wall Paneling System, Model: SSP-01, Material: Galvanized steel) (Sub-Structure, Model: GSS-02, Material: Galvanized steel) (Glass Wall Panel with HD Printing 03 panels in each O.T, Model: GP-06)</p>
2	<p><b>AIR TIGHT CLEAN ROOM SUSPENDED CEILING SYSTEM</b></p> <p><b>General Description</b>– The clean room suspended ceiling system should be made of specified material having specialized durable powder coating with integrated antimicrobial protection on the face side in specified color.</p> <p><b>Material</b>–Ceiling panels should be made of galvanized steel sheet 0.60mm-0.80 mm thick, with air tight mechanism.</p> <p><b>Finish</b>– The ceiling panels should be powder coated in color having bactericidal properties.</p> <p><b>Dimension</b> – 600 x 600mm or 1200 x 600 mm Approx.</p>	<p>Yes (Model: CTS.002.10) (800 Sqft)</p>	<p>Yes (Model: GSK100)</p>	<p>Yes (Model: GSC-01, Manufacturer: ATENA LUX, Italy)(Supplied By: HT Group, Germany)</p>

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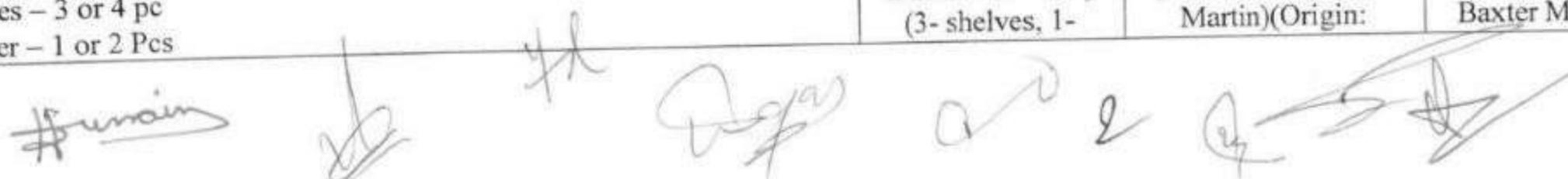
**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

3	<p><b>PERIPHERAL LIGHTS FOR OPERATING ROOM, QTY: 8</b>                  Clean room Luminaries of recessed type for linear fluorescent lamps with 1000 lux or as per ISO Standard, should be designed for clean room suspended ceilings.                  Dimension: 600 x 1200 mm or 600 x600 mm Approx or better.                  Lamp: LED</p>	Yes(Model: CA.030.L) Dimension 600 x 600mm	Yes(Model:EBLDB62 5-69.5) Dimension 600 x 1200mm	Yes(Model: Illuminator C-L, 88 W) (Dimension 600 x 600mm approx.) (Manufacturer: ATENA LUX, Italy)(Supplied By: HT Group, Germany)
4	<p><b>X-RAY VIEWER FOR OPERATING ROOM, QTY: 2</b>                  Recessed/Built-in type, LED X-Ray viewer integrate able with the modular wall system                  No. of Films: 2 or 3                  Effective Life of LED Lights: 50,000 hours                  Flickering less</p>	Yes(Model: MTA.002) No. of Films : 3	Yes(Model: Planilux Type DEH-LED) No. of Films : 3	Yes(Model: BF LED) No. of Films : 2
5	<p><b>CLEAN ROOM FLOORING FOR OPERATION ROOM, QTY: 2</b>                  Should be static dissipative homogenous vinyl roll or sheet size of 2.0 mm thickness sliced from highly compressed solid block of homogenous material.</p> <ul style="list-style-type: none"> <li>The flooring should be electrically conductivity (ESD).</li> <li>Factory molded corners and coved corner.</li> </ul> Copper taping for grounding.	Yes (Manufacturer: TK FLOOR/GERFLOOR)(1000 Sqft)	Yes (Manufacturer: Polyfloor, Origin: UK)(Model: Polyfloor EC)	Yes (Manufacturer: Forbo, Netherland)(Model: SPHERA SD) (LOA attached)
6	<p><b>AIR TIGHT AUTOMATIC SLIDING DOOR FOR OPERATING ROOMS WITH ELECTRONIC PRIVCY GLASS, QTY: 2</b></p> <ul style="list-style-type: none"> <li>Single wing of thickness 0.8mm or more Stainless Steel AISI304 brushed finish.</li> <li>Door acoustically and thermally isolated with highly pressured polyurethane foam.</li> <li>Stainless Steel long handles from internal and external side of the door wing.</li> <li>Inspection Window-300 x 1500mm or 400 x 600 mm double glazed (safety glass) with electronic privacy having control button provided near</li> </ul>	Yes (Model: LINDO DOORS) (SS: AISI304) (Inspection Window: 400 x 600mm)	Yes (Model: HH-BA11) (SS: AISI304) (Inspection Window: 400 x 600mm)	Yes (Model: ASD-AD) (SS: AISI304) (Inspection Window: 400 x 600mm)

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	<p>the door or surgeon control Panel accessible from inside of the OT.</p> <ul style="list-style-type: none"> <li>• Safety sensor– 2set of photo cells in door frame along with infrared sensor at door drive level on inner and outer side of the door.</li> <li>• Door operation with touchless sensor.</li> </ul>			
	<p><b>SINGLE LEAF MANUAL HINGED DOORS FOR EMERGENCY EXIT</b></p> <ul style="list-style-type: none"> <li>• Single or Double leaf made of 0.8mm Stainless Steel or Galvanized Steel</li> <li>• AISI304 or HPL sheet.</li> <li>• Stainless Steel door knobs with Lock at internal and external side of the door wing.</li> <li>• Door acoustically and thermally isolated with highly pressured polyurethane foam.</li> <li>• Powder Coating Paint film thickness 100 microns or better.</li> <li>• Inspection window of 600 x 400mm double glazed for Automatic doors.</li> </ul> <p>Dimensions as per actual site requirement</p>	<p>Yes(Lindo) (Galvanized Steel) (Inspection Window: 600 x 400mm)</p>	<p>Yes (Model: H-BMI 1) (Galvanized Steel) (Origin: Italy) (Inspection Window: 600 x 400mm)</p>	<p>Yes (Model: MHD (Galvanized Steel) (Origin: Germany) (Inspection Window: 600 x 400mm)</p>
7	<p><b>MEDICAL CABINET FOR OPERATING ROOM, QTY: 2</b></p> <p>The construction of the cabinets 'body should be self-supporting, welded– without the inside frame sand rivets, entirely made of stainless steel/tempered glass</p> <ul style="list-style-type: none"> <li>• The cabinet body should be built-in to the supporting profile integrated with modular wall system.</li> <li>• The cabinet body and doors should be flushed with wall panel surface. Cabinets should be sealed with a hermetic removable silicone seal.</li> <li>• The doors should be made of double steel plates with glazing. Safe Glass, set in double steel sheet window frame.</li> <li>• The shelves with height adjustments, should be made of stainless steel 1mm thick, supported from the bottom by trapeze profile</li> <li>• <b>Shelves</b>– 4-5 adjustable shelves</li> </ul>	<p>Yes (Model: MTA.283)(Material: 1: Stainless Steel) (5-adjustable shelves)</p>	<p>Yes (Model: SLP101C)(Material: Stainless Steel) (5-adjustable shelves)</p>	<p>Yes (Model: SS-C)(Material: Stainless Steel) (4-adjustable shelves)</p>
8	<p><b>CEILING MOUNTED ANESTHESIA PENDANT, QTY: 2</b></p> <p>Ceiling mounted Anesthesia Pendant system should be powder coated, hygienically smooth surface, impact and disinfectant resistant.</p> <ul style="list-style-type: none"> <li>• Shelves – 3 or 4 pc</li> <li>• Drawer – 1 or 2 Pcs</li> </ul>	<p>Yes (Model: MOTION)(Material: 1: Stainless Steel) (3- shelves, 1-</p>	<p>Yes (Model: Independent, Flex M) (Manufacturer: KLS Martin)(Origin:</p>	<p>Yes (Model: Truport 7000) (Manufacturer: Baxter Medical,</p>

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<ul style="list-style-type: none"> <li>No. of Arms: 02</li> <li>Length of first Arm 1000 mm</li> <li>Length of second arm 800 mm</li> <li>Max. Degree of rotation at each arm: 300° or better Max.</li> <li>Loading capacity: 200 Kg or better (Motorized Uplifting arm to lift the anesthesia machine as per compatibility).</li> <li>Braking system: Electromagnetic or Electric or Pneumatic brakes to control horizontal movement.</li> <li>Electrical Sockets British Standard – 16 to 20 Pcs</li> <li>LAN Data ports RJ45 or equivalent for PC – 2 Pc</li> <li>Oxygen Outlet: 2Pcs</li> <li>Medical Air 4 Bar 2 pcs</li> <li>Vacuum Outlet: 2 pcs</li> <li>Nitrous Oxide Outlet 2 pcs</li> <li>AGSS Out let 1 PCS ( Passive)</li> <li>I.V Pole- 1 PC</li> </ul> <p>Basket for Accessories</p>	<p>Drawer)(electromagnetic brakes)</p>	<p>Italy)(Material: Powder Coated) (3- shelves, 1- Drawer)(electromagnetic brakes)</p>	<p>Germany)(Origin: Germany) (3- shelves, 1- Drawer)(Pneumatic brakes) (LOA attached)</p>
<p>9 <b>CEILING MOUNTED SURGICAL PENDANT, QTY: 2</b> Ceiling mounted Surgical Pendant system should be powder coated, hygienically smooth surface, impact and disinfectant resistant</p> <ul style="list-style-type: none"> <li>Shelves – 3 or 4 Pcs</li> <li>Drawer – 1 or 2 Pcs</li> <li>No. of Arms: 2</li> <li>Length of first arm: 1000 mm Length of second arm:800 mm</li> <li>Max. degree of rotation at each arm: 300° or batter Max.</li> <li>loading capacity:200 Kg or better</li> <li>Braking system: Electromagnetic or Electric or Pneumatic brakes to control horizontal movement.</li> <li>Electrical Sockets British Standard – 16 to 20 Pcs</li> <li>LAN Data ports RJ45 for PC – 1 Pc Telephone Outlets RJ11 – 1Pc</li> <li>Oxygen Outlet: 2Pcs</li> </ul>	<p>Yes (Model: MOTION)(Material: Stainless Steel) (3- shelves, 1- Drawer)(Pneumatic brakes)</p>	<p>Yes (Model: Independent, Flex M) (Manufacturer: KLS Martin)(Origin: Italy) (Material: Powder Coated) (3- shelves, 1- Drawer)(electromagnetic brakes)</p>	<p>Yes (Model: Truport 5000) (Manufacturer: Baxter Medical, Germany)(Origin: Germany) (3- shelves, 1- Drawer)(Pneumatic brakes) (LOA attached)</p>

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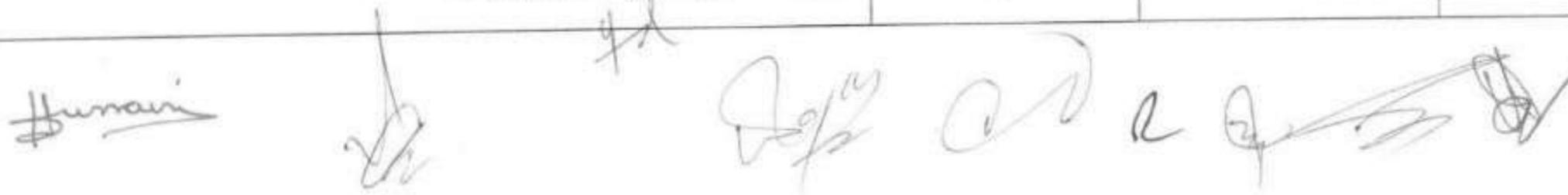
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	<ul style="list-style-type: none"> <li>Medical Air 4 Bar: 2Pcs Vacuum Outlet: 2 Pcs</li> <li>I.V Pole – 1 Pc</li> <li>Basket for accessories</li> </ul>			
10	<p><b><u>CEILING OT LIGHT DOUBLE HEAD WITH INTEGRATED CAMERA, QTY: 2</u></b></p> <ul style="list-style-type: none"> <li>LED shadow less operation theatre ceiling light, hermetically sealed dust proof.</li> <li>Adjustable light intensity 160000 LUX at 1 meter distance.</li> <li>Satellite combination of 160000 LUX at 1 meter.</li> <li>Adjustable Color temperature 4000°-4500° Kelvin.</li> <li>Electronic control panel for light Parameter's adjustment.</li> <li>Color rendition index of 96 or more.</li> <li>LED life 50,000 hours or better.</li> <li>Autoclavable handles.</li> <li>Operating Voltage 220V, 50Hz.</li> <li>Integrated digital camera system:             <ol style="list-style-type: none"> <li>Resolution : Full HD (1920 x 1080 Pixels) or better</li> <li>Video Outputs: 2 x HD-SDI or 1 x HDMI/DVI-D</li> <li>Provision of Video Transmission Facility</li> <li>Medical Graded LCD or LED 24" to 26" minimum along with mounted on third arm.</li> </ol> </li> </ul> <p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li>UPS imported for Two hours minimum backup to be supplied locally.</li> </ul>	<p align="center">Yes (Model: Polaris 600+ Polaris 600, Double Dome)(Manufacturer: Dragerwerk, Germany) (Origin: Germany)(Medical Grade LED 26")</p>	<p align="center">Yes (Model: Marled E9iXE9i, Double Dome)(Manufacturer: KLS Martin, Germany) (Origin: Germany)(Medical Grade LED 24")</p>	<p align="center">Yes (Model: EPURE, Double Dome)(Manufacturer: Surgiris, France) (Origin: France)(Medical Grade LED 26") (LOA attached)</p>
11	<p><b><u>LAMINAR AIR FLOW CEILING SYSTEM, QTY: 2</u></b></p> <p>Laminar flow ceiling system should be round or square or rectangular base form to produce a germ-and particle lean area through unidirectional homogeneous, low turbulence laminar air flow. Return air grill with fluff separator 08 set for each theater.</p> <p>All components for the receptacle of the filter element should be made of corrosion-proof materials. Air tight welded filter intake made of aluminum</p> <p><b>TECHNICAL DATA (All numerical values are approximate)</b> Total Air Flow: 6360 m3/h Air Velocity:0.25m/s</p>	<p align="center">Yes (Model: SHD ITALY)</p>	<p align="center">Yes (Model: FFA 24/24) (Manufacturer: WEISS TECHNIK, Germany) (Origin: Germany)(Total Air Flow: 4500m3/h)</p>	<p align="center">Yes (Model: PSOP 76) (Manufacturer: UNITAIR, France) (Origin: France)(Total Air Flow: 6400m3/h) (LOA attached)</p>

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	<p>Filter Class to EN1822: H14   99.998% Initial Pressure drop: 115 Pa                  Final Pressure drop (Recommended): 240 Pa                  Size: 2800 x 2800 mm or Diameter: 3000mm According to Standard                  Positive pressure should be maintaining inside the OT to prevent contamination of air from outside OT OR As per drawing/actual requirement of the hospital.                  Potential differential monitoring provision on surgeon pendant.</p>			
12	<p><b><u>SURGEON CONTROL PANEL, QTY: 2</u></b>                  Touch screen provides visual information about the current status of the monitored operating theatre systems and allows controlling and setting of the essential physical. Latest Type 20-25" TFT/LCD Display.  <b><u>CONTROL &amp; MONITORING</u></b>                  Room Ceiling Lighting Control (On/Off - Dimming, White &amp; RGB)                  Digital Clock and stopwatch                  Temperature and Humidity Monitoring                  Medical Gases - Alarm high/low.</p>	Yes (Model: LINDO TCP)	Yes (Model: SCP-22)	Yes (Model: TCP-22) (Manufacturer: Dagri Inzeniring D.O.O, Solvinia) (Supplied by: HT Group)
13	<p><b><u>SURGICAL SCRUB STATION, QTY: 2</u></b>                  Stations steel scrub station.                  Anti-splash basin.                  1/2-siphon.                  IR Sensor controls.                  2-water tapes with a mixing valve. Water pipe hoses for cold and hot water.                  Stainless steel brackets or fittings to fix the sink to the wall.                  Hygienic tap shaving built-in-tap thermostatic mixing valve to supply 42oC hot water.                  The tap shall also have built-in strainers and the provision for easy and quick thermal disinfection to remove the scaling.  <b>Accessories:</b>                  Soap dispenser unit.</p>	Yes (Model:AF.037.S)	Yes (Model: SLUICE BOX WRE-CLE)	Yes (Model: B-2)(Manufactured: Bawer, Italy)(Origin: Italy) (LOA attached)
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>



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ESSENTIAL EQUIPMENTS FOR TWO MODULAR OPERATION THEATRES				
S/N	Evaluation Parameters	M/S Vertex Medical (Pvt) Ltd	M/S Mediland Pakistan (Pvt) Ltd	M/S Radiant Medical (Pvt) Ltd
<b>14. EQUIPMENT NAME: DIATHERMY WITH VESSEL SEALING SYSTEM, QTY: 2</b>				
1	Brand	BOWA	KLS MARTIN	ERBE ELEKTROMEDIZIN
2	Model	ARC 350	MAXIUM	VIO 3
3	Country of Manufacturer	Germany	Germany	Germany
4	Country of origin of product / Model Number	Germany	Germany	Germany
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW, CE as mentioned in the specifications)	CE	CE	CE
<b>Technical Specifications:</b>				
1	Touch screen generator with 350 Watts or more.	Yes	Yes	Yes
2	Microprocessor based solid state electrosurgical unit for normal and under water cutting with permanent safe sealing of vessel on tissue bundle: 7mm. thermal spread should be minor.	Yes	Yes	Yes
3	RF power for monopolar cutting not below 350 watts or more with 5-watt step increment or less.	Yes	Yes	Yes
4	Monopolar coagulation 120 Watt or better.	Yes	Yes	Yes
5	At least 3-4- blend/effect modes.	Yes	Yes	Yes
6	Monopolar Coagulation: 120 watts or more.	Yes	Yes	Yes
7	Bipolar Coagulation 100 watts or more.	Yes	Yes	Yes
8	Bipolar cutting 120 watt or more.	Yes	Yes	Yes
9	Spray Coagulation	Yes	Yes	Yes
10	220 VAC, 50 Hz.	Yes	Yes	Yes
<b>Accessories :</b>				

*Handwritten signatures and initials are present below the table, including the name 'Humain'.*

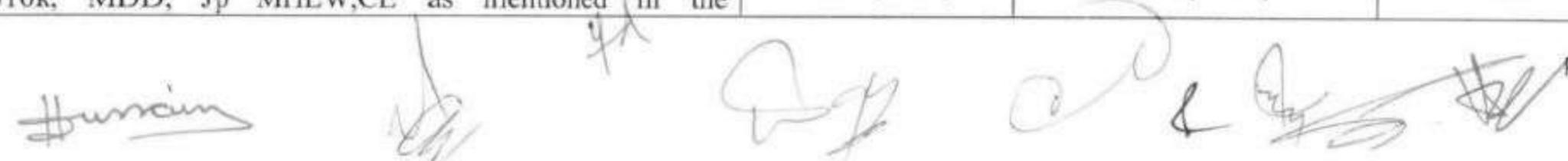
**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

11	Complete with foot switch, reuse-able patient plate, monopolar handle with cord and surgical needles (knives, ball electrode, loop electrode and needle (Qty: 12).	Yes	Yes	Yes
12	Bipolar forceps straight.	Yes	Yes	Yes
13	Bipolar forceps bayonet.	Yes	Yes	Yes
14	Imported trolley with lockable wheels.	Yes	Yes	Yes
15	Reusable laparoscopic instruments 5mm or 200 pieces of disposable.	Yes	Yes	Yes
16	Instruments for open surgery (01 reusable or 200 pieces of disposable)	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>15. EQUIPMENT NAME: HIGH END ELECTROHYDRAULIC / ELECTROMECHANICAL TABLE, QTY: 2</b>				
1	Brand	ALVO MEDICAL	SCHMITZ	BAXTER MEDICAL
2	Model	ALVO SERENADA-B	DIAMOND 60BLK	PST 300
3	Country of Manufacturer	POLAND	GERMANY	GERMANY
4	Country of origin of product / Model Number	POLAND	GERMANY	GERMANY
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW, CE as mentioned in the specifications)	CE	CE	CE
<b>Technical Specifications</b>				
1	Table Top (Radiolucent) With antistatic mattress, 5-6 sections and equipped with X-ray cassette holder.	Yes	Yes	Yes
2	Sturdy table for minimum patient lifting capacity 400Kg or better.	Yes	Yes	Yes
<b>TABLE TOP IS ARRANGED AS:</b>				
3	Head plate	Yes	Yes	Yes
4	Back plate	Yes	Yes	Yes
5	Seat plate	Yes	Yes	Yes
6	Two separate leg plates	Yes	Yes	Yes
7	Base of the table stainless steel or ABS cover, 4 swivel castors	Yes	Yes	Yes

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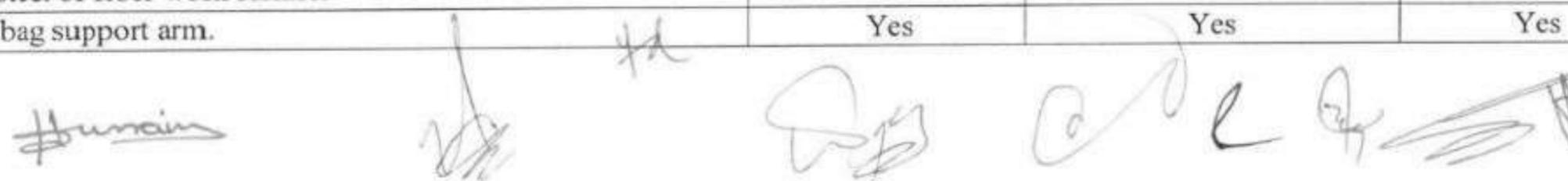
**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

8	Sliding table top up to 300 mm	Yes	Yes	Yes
<b>MOVEMENT (Remote Controlled):</b>				
9	Up and down movement height range: 680-1000mm or more	Yes	Yes	Yes
10	Trendelenburg and Reverse Trendelenburg 30 degree and -20 degree	Yes	Yes	Yes
11	Lateral tilt 20 degree	Yes	Yes	Yes
12	Back plate: up 70 degree Down 35 degree or better	Yes	Yes	Yes
13	Leg plate: up 20 degree and down 90 degree.	Yes	Yes	Yes
14	Override panel in column or wireless remote for back-up in case of emergency.	Yes	Yes	Yes
15	Operating Voltage: 220V, 50Hz with battery backup in case of electric supply failure.	Yes	Yes	Yes
16	Provision of kidney position.	Yes	Yes	Yes
<b>STANDARD ACCESSORIES:</b>				
17	Pair of Arm rest with clamp and straps.	Yes	Yes	Yes
18	Anesthesia screen	Yes	Yes	Yes
19	Pair of Knee Crutches.	Yes	Yes	Yes
20	Large width body strap	Yes	Yes	Yes
21	Adjustable bottle holder rod	Yes	Yes	Yes
22	Shoulder Support	Yes	Yes	Yes
23	U Shape head rest for general Surgery.	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>16. EQUIPMENT NAME: ANESTHESIA WORKSTATION (HIGH END), QTY: 2</b>				
1	Brand	DRAGER	GETINGE	Heyer Medical
2	Model	ATLAN A350	FLOW-I C40(Pendant Mounted)	AG70
3	Country of Manufacturer	Germany	Sweden	Germany
4	Country of origin of product / Model Number	Germany	Sweden	China
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW,CE as mentioned in the	FDA (510K)	FDA (510K)	CE



**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

specifications)				
Technical Specifications				
1	Anesthesia work station machine to administer anesthetic agents in precise control and flow manner.	Yes	Yes	Yes
2	The machine will equip to monitor the vital sign parameters and anesthetic agents during operation.	Yes	Yes	Yes
3	Pendant Mounted or Floor mounted	Yes (Pendent Mounted)	Yes (Pendent Mounted)	Yes (Pendent Mounted)
4	Provision of 3-gases O2, N2O and Air.	Yes	Yes	Yes
5	Machine should capable to deliver low flow and minimal flow anesthesia with fresh gas flow efficiency graph.	Yes	Yes	Yes
6	Provision of communication port for sharing and transfer of data to HIMS or HIS through HL7 protocol.	Yes	Yes	Yes
<b>Unit shall comprise of the following components:</b>				
1	Electronically controlled gas mixing and monitoring of anesthetic gases (O2, AIR, and N2O) both by digits as well as colored virtual tubes.	Yes	Yes	Yes
2	Manual ventilation should be possible if the electrical system fails.	Yes	Yes	Yes
3	Built-in illumination system.	Yes	Yes	Yes
4	Non-interchangeable pipeline inlets.	Yes	Yes	Yes
5	Electronic Display of Central Pipeline & cylinder gauges for O2, N2O and AIR.	Yes	Yes	Yes
6	Central gas or electrically driven unit.	Yes	Yes	Yes
7	Pin index cylinder yokes for Oxygen & N2O (One each).	Yes	Yes	Yes
8	Automatic shifting on the cylinder if the central supply of O2 or N2O fails.	Yes	Yes	Yes
9	Gas outlet and O2 flush control.	Yes	Yes	Yes
10	1 auxiliary O2 outlet (preferably electronics).	Yes	Yes	Yes
11	Two Lockable castors	Yes	Yes	Yes
12	Stainless steel or fiber work surface.	Yes	Yes	Yes
13	Absorber bag support arm.	Yes	Yes	Yes



**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

14	Integrated heated breathing system or ability to manage water condensation & Humidification.	Yes	Yes	Yes
15	Drawer unit 5-6" high. (Only in floor mounted version).	Yes	Yes	Yes
16	Scavenging system active type.	Yes	Yes	Yes
17	Integrated or Built-in or Mounted suction with accessories to be supplied from same manufacturer which should be compatible with machine.	Yes	Yes	Yes
<b>ANESTHESIA VENTILATOR:</b>				
18	Anesthesia Ventilator with minimum 15" or more LCD or TFT Touch Screen.	Yes(15.3")	Yes(15")	Yes(18.5")
19	The ventilator shall be capable of ventilating Neonates, pediatric and Adult Patients.	Yes	Yes	Yes
<b>The ventilator shall have following features as a minimum requirement:</b>				
20	Volume Preset Time Cycled Ventilation or Volume Control.	Yes	Yes	Yes
21	Manual and spontaneous.	Yes	Yes	Yes
22	Pressure Mode (PCV).	Yes	Yes	Yes
23	Synchronized pressure controlled ventilation (SIMV-PC).	Yes	Yes	Yes
24	Synchronized volume controlled ventilation (SIMV).	Yes	Yes	Yes
25	PS with apnea back up.	Yes	Yes	Yes
26	Breathing Mode Selection (Standby, Volume, Spontaneous and Pressure).	Yes	Yes	Yes
27	Built in Oxygen Monitor.	Yes	Yes	Yes
28	Inverse I:E ratio Capability.	Yes	Yes	Yes
29	Gas Specific Input Connectors (Air or Oxygen ISO or ANSI Standards).	Yes	Yes	Yes
30	Tidal Volume 05-1400 ml or better in any ventilation mode.	Yes	Yes	Yes
31	Rate or Frequency 4 to 80 bpm or better.	Yes	Yes	Yes
32	PEEP: off, 4 to 20 cmH2O or better.	Yes	Yes	Yes
33	Inspiratory Pressure Limit.	Yes	Yes	Yes
34	Pressure, Volume and O2 curves.	Yes	Yes	Yes

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

35	Spirometry loops for volume, pressure and flow.	Yes	Yes	Yes
36	Oxygen or Electrically Driven.	Yes	Yes	Yes
37	Power Supply 220 VAC, 50 Hz.	Yes	Yes	Yes
38	Built-in Battery Backup (60 Minutes or more).	Yes	Yes	Yes
39	Low or High FiO2 Alarm.	Yes	Yes	Yes
40	Numeric value or graphically representation of inspired and expired tidal volume.	Yes	Yes	Yes
41	Incorrect Rate or Ratio alarm.	Yes	Yes	Yes
42	Mains power failure alarm.	Yes	Yes	Yes
43	Low battery alarm.	Yes	Yes	Yes
44	Oxygen Sensor: Paramagnetic Technology (Non consumable).	Yes	Yes	Yes
45	Electronic hypoxic function.	Yes	Yes	Yes
46	The ventilator shall be supplied with complete drive hose and power cable.	Yes	Yes	Yes
47	Capability to detect oxygen during self-test mode.	Yes	Yes	Yes
48	Transfer of Data & log book to external storage media through USB port or equivalent printable format.	Yes	Yes	Yes
49	Patient ventilation module or breathing system should be auto cleavable.	Yes	Yes	Yes
50	Cardiac bypass mode or HLM.	Yes	Yes	Yes
	<b>VAPORIZER:</b>			
51	Two pre calibrated Vaporizers of Isoflurane & Sevoflurane vaporizer, temperature and flow compensated.	Yes	Yes	Yes
52	The vaporizer should have the compatibility certificate with quoted anesthesia machine.	Yes	Yes	Yes
	<b>MONITORING:</b>	IACS C500(INFINITY M540+ INFINITY C500) MANUFACTURE R:	MODEL: FX3000MD, MAKE: EMTEL, ORIGIN: POLAND, SUPPLIED BY GETINGE GROUP	IACS C500(INFINITY M540+ INFINITY C500) MANUFACTURE R:

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

		DRAGERWERK, GERMANY		DRAGERWERK, GERMANY
		Yes	Yes	Yes
53	Modular Vital sign monitor with transport module.	Yes	Yes	Yes
54	Display size of transport module minimum 3.5" touch screen with one hours' built-in battery backup.	Yes (6.2")	Yes (5.7")	Yes (6.2")
55	Size of main display minimum 17" touch screen or more for monitoring of vital sign parameters of Neonates, Peads and adults.	Yes (17.3")	Yes (17")	Yes (17.3")
56	Measurement of ECG 5 or 6 leads.	Yes	Yes	Yes
57	NIBP with re-usable single hose cuff for neonates, Peads and Adults.	Yes	Yes	Yes
58	SpO2 (Masimo Technology or Equivalent motion tolerant technology) with re-usable cable and sensors for neonates, Peads & adult	Yes	Yes	Yes
59	HR.	Yes	Yes	Yes
60	Temperature with nasal and skin probe.	Yes	Yes	Yes
61	Respiration.	Yes	Yes	Yes
62	Four Channel IBP.	Yes	Yes	Yes
63	Trend data 72 hours or more.	Yes	Yes	Yes
64	Printer module for printing waveforms and patient data.	Yes	Yes	Yes
65	Anesthetic Agent, CO2, O2 and N2O Monitoring (With monitor or within Anesthesia Machine) along with Gas consumption and uptake data.	Yes	Yes	Yes
66	Monitoring of xMAC or MAC value. (with monitor or with in the anesthesia machine).	Yes	Yes	Yes
67	EtCO2 main or side stream (Complete with all sensors probes, reusable).	Yes	Yes	Yes
68	Provision of communication port for sharing and transfer of data to HIMS or HIS through HL7 protocol.	Yes	Yes	Yes
69	220V, 50 Hz operated.	Yes	Yes	Yes
70	Built-in or Integrated battery backup or online pure sine wave UPS with dry batteries for atleast 60 minutes.	Yes	Yes	Yes

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

<b>ACCESSORIES OF ANESTHESIA VENTILATOR:</b>				
71	Power outlet with 3 or 4 socket outlets to connect the auxiliary equipment.	Yes	Yes	Yes
72	CO2 absorber 700 – 1,500 gm or better complete with valve for bag or ventilator.	Yes	Yes	Yes
73	Re-Usable Silicon Autoclave able breathing circuit (Adult, Pediatric and Infant 01 each)	Yes	Yes	Yes
74	Mounts and Y-piece.	Yes	Yes	Yes
75	Hinge arm for breathing circuit.	Yes	Yes	Yes
76	Additional breathing hose and connector with 01 adult & 01 pediatric and Infant bellows. (Only provide with bellow based machine) or Universal bellow.	Yes	Yes	Yes
77	2 x O2 and 2 x N2O pin index cylinders (Should be provided locally along with test certificate from approved Gas supplier).	Yes	Yes	Yes
78	Breathing bags 0.5, 1.0, 1.5, 2 & 3 L	Yes	Yes	Yes
79	Water-lock or water-trap (QTY-05).	Yes	Yes	Yes
80	Sample lines (QTY-10).	Yes	Yes	Yes
<b>MONITORING ACCESSORIES:</b>				
81	2 X NIBP Cuffs for Adult, infant and Peads (one each)	Yes	Yes	Yes
82	2 X Spo2 probes for Adult, infant & Peads (one each)	Yes	Yes	Yes
83	2 X Temperature probes (Nasal & Skin).	Yes	Yes	Yes
84	2 X ECG Leads.	Yes	Yes	Yes
85	Four Channel IBP leads.	Yes	Yes	Yes
86	etCO2 sensor or module.	Yes	Yes	Yes
87	4 x Printing paper roll.	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>17. EQUIPMENT NAME: DEDICATED HYGIENIC AIR HANDLING UNIT (IMPORTED/LOCAL), QTY: 2</b>				
1	Brand	LOCAL MADE	LOCAL MADE	LOCAL MADE
2	Model	-	AC-103-HDT-DDPBBE	LDXCC-100
3	Country of Manufacturer	-	PETAL ENGINEERING Pvt LTD,	LANCER

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

4	Country of origin of product / Model Number	PAKISTAN	PAKISTAN	PAKISTAN
<b>Technical Specifications</b>				
1	Local Provision for theater (if already not installed HVAC System)	Yes	Yes	Yes
2	Fan Type: Plug-fan	Yes	Yes	Yes
3	Filter: At least three stage filtrations in AHU G4, F9 and F7	Yes	Yes	Yes
4	Fan efficiency :70% or batter	Yes	Yes	Yes
5	Temperature range adjustable for heating and cooling OR as per drawing or actual requirement of the hospital	Yes	Yes	Yes
6	Unit should have humidification & Dehumidification Provision built in or equivalent.	Yes	Yes	Yes
7	Constant air flow control.	Yes	Yes	Yes
8	Unit should be design criteria 70 % regulated air and 30% of fresh air.	Yes	Yes	Yes
9	Casing should be water proof.	Yes	Yes	Yes
10	Ambient temperature as site	Yes	Yes	Yes
11	RH Factor built in or equivalent.	Yes	Yes	Yes
12	Temperature regulation 20 to 26 degree.	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>18. EQUIPMENT NAME: HEART LUNG MACHINE, QTY: 2</b>				
1	Brand	LIVA NOVA(SORIN)	GETINGE GROUP	GETINGE GROUP (Joint Venture with Mediland Pakistan Pvt Ltd)
2	Model	STOCKERT S5	HL 40	HL 40
3	Country of Manufacturer	Germany	SWEDEN	SWEDEN
4	Country of origin of product / Model Number	Germany	SWEDEN	SWEDEN
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW,CE as mentioned in the specifications)	FDA (510K)	CE	CE

Page 19 of 33

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

**Technical Specifications**

1	05 completely modular Pumps on console/MAST with all modular parameters and at least two Pumps should be on MAST	Yes	Yes	Yes
2	04 single Roller Pumps and 01 Cardioplegia Pump	Yes	Yes	Yes
3	Pressure module	Yes	Yes	Yes
4	Temperature module	Yes	Yes	Yes
5	Monitor interface module	Yes	Yes	Yes
6	Power supply module	Yes	Yes	Yes
7	Entire system should have a battery backup.	Yes	Yes	Yes
8	Level sensor	Yes	Yes	Yes
9	Ultrasonic Bubble detector	Yes	Yes	Yes
10	Flexible Light Lamp	Yes	Yes	Yes
11	Mechanical /Electronic Gas blender	Yes	Yes	Yes
12	Cardioplegia Monitoring Unit	Yes	Yes	Yes
13	System Control Panel	Yes	Yes	Yes
14	Venous occluding clamp.	Yes	Yes	Yes
15	Heart Lung machine should have modular system.	Yes	Yes	Yes
16	Smooth stainless steel, painted metal and aluminum.	Yes	Yes	Yes
17	Switch over from main power to battery backup should be automatic and immediate.	Yes	Yes	Yes
18	Battery Unit should be built up in console or pump base.	Yes	Yes	Yes
19	It should recharge automatically when the system is operating with main power supply.	Yes	Yes	Yes
20	Pump-console should have single cable connection from external power supply.	Yes	Yes	Yes
21	Provision for a connection to PC.	Yes	Yes	Yes
22	24V operated socket for all pumps to avoid risk.	Yes	Yes	Yes

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23	Should have hand crank facility as a safety feature with each pump	Yes	Yes	Yes
24	All the Pumps should have facility of pulsatile mode	Yes	Yes	Yes
	<b>System Control Monitor</b>			
	Should display following components.			
25	Pulsatile operation display.	Yes	Yes	Yes
26	Pressure monitoring display.	Yes	Yes	Yes
27	Temperature monitoring display.	Yes	Yes	Yes
28	Timer system display.	Yes	Yes	Yes
29	Battery voltage display.	Yes	Yes	Yes
30	Safety buttons.	Yes	Yes	Yes
31	Alarm for shut down for any pump	Yes	Yes	Yes
	<b>Cardioplegia Monitoring Unit</b>			
32	It should display Volume ratio, timer, temperature, and pressure of full control of independent cardioplegia line.	Yes	Yes	Yes
33	Master follower function and pump to stop.	Yes	Yes	Yes
	<b>Single Roller Pump</b>			
34	Console Pumps should have a compact arrangement and a universal connection.	Yes	Yes	Yes
35	Monitoring flow rates in LPM & RPM should digitally display on the pump or equivalent.	Yes	Yes	Yes
36	Pump should be peristaltic for durability and convenience of handling.	Yes	Yes	Yes
37	Roller pump should have a self-diagnostic circuit with provision to detect and display critical alarm conditions	Yes	Yes	Yes
38	Each individual roller pump should be capable of running independently.	Yes	Yes	Yes
39	Each Pump should operate on 24 V.	Yes	Yes	Yes
40	Roller Pump Range: 0-250 RPM	Yes	Yes	Yes
41	Display of all pump condition on pump.	Yes	Yes	Yes
42	Calibrations preset for ¼, 3/8 & ½ tubing.	Yes	Yes	Yes

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43	Tubing inserts of all standard sizes.	Yes	Yes	Yes
44	It should have reverse flow capability.	Yes	Yes	Yes
	<b>Pressure Monitor</b>			
45	Should be capable of monitoring and displaying six Pressures.	Yes	Yes	Yes
46	Along with necessary pressure transducers Kit, cables and domes reusable, with accurate digital display and alarm facilities- audio and visual.	Yes	Yes	Yes
47	It should have trend indicator and trend readouts.	Yes	Yes	Yes
48	Pole mounts for transducer Kits.	Yes	Yes	Yes
	<b>Temperature Monitor</b>			
49	04 temperature displays on Control panel for patient monitoring and cardioplegia monitoring with digital display in Celsius.	Yes	Yes	Yes
50	It should have trend indicator and trend readouts.	Yes	Yes	Yes
	<b>Air -Emboli Module.</b>	Yes	Yes	Yes
	<b>Level Sensor</b>	Yes	Yes	Yes
51	With alarm settings.	Yes	Yes	Yes
52	Should be able to provide both alerts for audible and visual alarms for low blood level.	Yes	Yes	Yes
53	Level sensor pads Qty: 100 pcs	Yes	Yes	Yes
	<b>Air Bubble Detector</b>			
54	It should be ultrasonic in nature and have the ability to detect micro bubbles	Yes	Yes	Yes
55	Bar LEDs/graphical or pictorial, sensor fault, override facility.	Yes	Yes	Yes
56	Sensor should be compatible with all tubing sizes.	Yes	Yes	Yes
	<b>Time Monitor</b>			
57	Minimum 3 time displays.	Yes	Yes	Yes
58	With stop, reset and start function	Yes	Yes	Yes
	<b>Accessories:</b>			
59	System should be with all complete accessories.	Yes	Yes	Yes
60	Arterial Flow Sensor	Yes	Yes	Yes

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

61	Electronic venous occluder	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>19. EQUIPMENT NAME: HYPO-HYPERTHERMIA MACHINE, QTY: 2</b>				
1	Brand	LIVA NOVA(SORIN)	GETINGE GROUP	GETINGE GROUP(Joint Venture with Mediland Pakistan Pvt Ltd)
2	Model	Heater Cooler System (3T)	HCU-40	HCU-40
3	Country of Manufacturer	Germany	Germany	Germany
4	Country of origin of product / Model Number	Germany	Germany	Germany
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW,CE as mentioned in the specifications)	FDA (510K)	FDA(510K)	FDA(510K)
<b>Technical Specifications</b>				
1	The Hypo-hyperthermia unit designed to supply temperature-controlled water to oxygenator, heat exchangers, cooling blankets and cardioplegia.	Yes	Yes	Yes
2	The feed water temperature is selected on a temperature controller in the range of 5-40 °C.	Yes	Yes	Yes
3	One/two external circuits can be connected each with its own flow control.			
4	The flow is maintained by a built-in pump.	Yes	Yes	Yes
5	The temperature control is obtained by three-way motor valve.	Yes	Yes	Yes
6	Selection of water from a cooling or heating vessel as per requirement is available.	Yes	Yes	Yes
7	In the cooling vessel a temperature of ±2°C is constantly maintained by a refrigeration system.	Yes	Yes	Yes
8	Heating vessel contains an electrical heater which is automatically switched, as and when required.	Yes	Yes	Yes

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

9	Hermetically sealed compressor ½ HP.	Yes	Yes	Yes
10	Temperature accuracy is ±0.5°C	Yes	Yes	Yes
11	Initial Cooling Capacity is 2100 KJ/h (500Kcal/h)	Yes	Yes	Yes
12	Continuous cooling cap 2800KJ/h (670 Kcal/h)	Yes	Yes	Yes
13	Circulating system: Pump	Yes	Yes	Yes
14	Flow capacity in total is 10-16 liters/min	Yes	Yes	Yes
15	Disinfection mechanism for internal water to prevent bacterial growth with Patient and Cardioplegia circuit/tank	Yes	Yes	Yes
16	It should have the facility of emptying of pipes.	Yes	Yes	Yes
	<b>Accessories</b>			
17	System should be complete with all accessories	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>20. EQUIPMENT NAME: SYRINGE PUMP, QTY: 8</b>				
1	Brand	BBraun	FRESENIUS KABI	CODAN ARGUS
2	Model	Perfusor Compact +	INFUSIA SP7S	AG
3	Country of Manufacturer	Germany	Germany, Supplied by Viessmann Technologies Gmbh (Vitec)	A616S
4	Country of origin of product / Model Number	Germany	Germany	Switzerland
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW, CE as mentioned in the specifications)	CE	CE	CE
<b>Technical Specifications</b>				
1	Syringe pump for fluid administration.	Yes	Yes	Yes
2	Flow Rates: 0.1 -900 ml/hr. (Approx.)	Yes	Yes	Yes
3	Bolus rate: 0.1 to 1200 / hr.	Yes	Yes	Yes
4	LCD display of set parameters	Yes (2.4")	Yes	Yes
5	Universal Syringe acceptance capability for disposable, Plastic, Size,	Yes	Yes	Yes

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

	5, 10, 20, 50, 60 ml			
6	Drive Accuracy. $\pm 3\%$	Yes	Yes	Yes
7	Display of drug name, Infusion rate, infused volume and volume to be infused	Yes	Yes	Yes
8	Set Automatic adaptation of controls according to syringe /infusion set	Yes	Yes	Yes
9	Quick freed/rapid infusion facility/bolus	Yes	Yes	Yes
10	KVO Functions (Keep vein open)	Yes	Yes	Yes
11	Data event log	Yes	Yes	Yes
12	Safety alarm & indicator: Occlusion pressure alarm, end of infusion, loose syringe alarm, low battery, and technical malfunction alarm,	Yes	Yes	Yes
13	Rechargeable battery and mains operated 220V, 50Hz	Yes	Yes	Yes
14	Battery backup 3 hours or more.	Yes	Yes	Yes
	<b>ACCESSORIES</b>			
15	System should be supplied with complete accessories.	Yes	Yes	Yes
	<b>Technical Eligibility of Product</b>	<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
	<b>Technical Eligibility of Firm</b>	<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
	<b>Bid Status</b>	<b>Responsive</b>	<b>Responsive</b>	<b>Responsive</b>

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

**OPTIONAL EQUIPMENTS FOR TWO MODULAR OPERATION THEATRE**

S/N	Evaluation Parameters	M/S Vertex Medical (Pvt) Ltd	M/S Mediland Pakistan (Pvt) Ltd	M/S Radiant Medical (Pvt) Ltd
<b>1. EQUIPMENT NAME: GENERAL PURPOSE TROLLEYS, QTY: 4</b>				
1	Brand	Local Made	Schmitz, Germany	Local Made
2	Specifications	Material: AISI 304, Gauge: SWG: 18, Welding Type: Argon	Model: Varimed	Stainless Steel
	<b>Technical Eligibility of Product</b>	<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>2. EQUIPMENT NAME: SUCTION MACHINE, QTY: 4</b>				
1	Brand	MEDELA AG	CA-MI	ARDO
2	Model	BASIC	New Hospivac 400	Senator
3	Country of Manufacturer	SWITZERLAND	Italy, Supplied by Viessmann Technologies GmbH (Vitec)	SWITZERLAND
4	Country of origin of product / Model Number	SWITZERLAND	Italy	SWITZERLAND
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW, CE as mentioned in the specifications)	FDA (510K)	CE	CE
<b>Technical Specifications</b>				
1	Piston or Diaphragm type with oil free pump mechanism.	Yes	Yes	Yes
2	Heavy duty Mobile Suction Unit with twin jars (Polysulfide or Polycarbonate) of capacity up to 2 or 3 liters each, Autoclavable.	Yes	Yes	Yes
3	Aspiration rates up to 20-30 liters/minutes or more at 600-900mm.Hg	Yes	Yes	Yes
4	Vacuum continuously adjustable	Yes	Yes	Yes
5	Triple flow or over flow safety device.	Yes	Yes	Yes
6	Change over valve	Yes	Yes	Yes

Page 26 of 33

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

7	Suction tubing of silicone with coupling connection for each jar	Yes	Yes	Yes
8	Noise Level 50 dB or less.	Yes	Yes	Yes
9	220V/50Hz.	Yes	Yes	Yes
	<b>Accessories:</b>			
10	1. 10 x bacterial filter	Yes	Yes	Yes
11	2. Original trolley with lockable wheels.	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>3. EQUIPMENT NAME: DEFIBRILLATOR, QTY: 3</b>				
1	Brand	Zoll Medical	Zoll Medical	OSATU,S.COOP
2	Model	M2	M2	REANIBEX-800
3	Country of Manufacturer	USA	USA, Supplied by Viessmann Technologies Gmbh (Vitec)	SPAIN
4	Country of origin of product / Model Number	China	China	SPAIN
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW,CE as mentioned in the specifications)	CE	CE	CE
<b>TECHNICAL SPECIFICATIONS</b>				
	<b>Defibrillator</b>			
1	Biphasic Transthoracic (External) Defibrillator	Yes	Yes	Yes
2	LCD color display with Screen Size of approx. 5 inches or better	Yes	Yes	Yes
3	Synchronized output with ECG	Yes	Yes	Yes
4	For External Defibrillation Energy Selection & Delivery on Control Panel and / Or External Paddles	Yes	Yes	Yes
5	For Internal Defibrillation Energy Selection on Control Panel and / Or Internal Paddles and Delivery must be on Internal Paddles	Yes	Yes	Yes
6	Charging Indicator	Yes	Yes	Yes
7	The energy range should be adjustable for Neonates, Paeds and Adults up to 200 Joules or better	Yes	Yes	Yes

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

8	Charging Time for full energy should be less than 6 - 7 seconds	Yes	Yes	Yes
9	Display of HR, ECG through paddles and Lead I, II & III patient cable	Yes	Yes	Yes
10	Built-in recorder for printing of full summery on standard 50 mm paper	Yes	Yes	Yes
11	Alarms for High and low Heart rate, low battery warning	Yes	Yes	Yes
12	Auto Tester / Self-Check	Yes	Yes	Yes
13	External Paddles (Adult and Paeds)	Yes	Yes	Yes
14	AED Facility with Cable	Yes	Yes	Yes
15	Pacing Facility	Yes	Yes	Yes
16	Other Parameters:	Yes	Yes	Yes
17	Operating Requirement: AC 220 V & 50 Hz	Yes	Yes	Yes
18	Built-in Rechargeable battery with charger for minimum 100 shocks at maximum energy	Yes	Yes	Yes
<b>Accessories:</b>				
19	Complete with all Standard Accessories	Yes	Yes	Yes
20	Original Trolley (Manufacturer Supplied) / Local Trolley Manufacturer's Standards with antistatic castors / wheels and all precautionary measures applicable	Yes	Yes	Yes
21	Internal Paddle (Adult & Paed) (Quantity: 2 each)	Yes	Yes	Yes
<b>Optional (If any):</b>				
22	Quantity and Type of Reusable Sensors (Adult, Paediatric & Neonatal) (To be specified by the Procuring Agency and End-user)	Yes	Yes	Yes
23	EtCO2	Yes	Yes	Yes
24	SpO2	Yes	Yes	Yes
25	NIBP	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>4. EQUIPMENT NAME: MOBILE OPERATION LIGHT, QTY: 1</b>				
1	Brand	Dragerwerk	KLS Martin	Medicinos
2	Model	Polaris 600	MARLED E9i	Lumen 160LEM

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**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

3	Country of Manufacturer	Germany	Germany	Lithuania
4	Country of origin of product / Model Number	Germany	Germany	Lithuania
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes
6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW,CE as mentioned in the specifications)	CE	CE	CE

**TECHNICAL SPECIFICATIONS**

1	Mobile LED emergency shadow less operation theater light.	Yes	Yes	Yes
2	Hermetically dust proof LED head.	Yes	Yes	Yes
3	Luminance at 1m distance 160,000 lux or above.	Yes	Yes	Yes
4	Color temperature 4000°-4500° kelvin or better.	Yes	Yes	Yes
5	Light field diameter between 20 – 24 cm or better (required lux should be available within max. light field area.	Yes	Yes	Yes
6	Color rendering index 96 or more.	Yes	Yes	Yes
7	LED life 50,000 hours or more.	Yes	Yes	Yes
8	Temp. rise in surgical surface <2° C	Yes	Yes	Yes
9	220 V / 50 Hz 1 phase.	Yes	Yes	Yes
10	Built-in rechargeable battery backup for at least 2 hours.	Yes	Yes	Yes
11	Autoclavable handles.	Yes	Yes	Yes
<b>Technical Eligibility of Product</b>		<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>

**5. EQUIPMENT NAME: STERNUM SAW, QTY: 3**

1	Brand	AESFULAP AG	DE Soutter Medical	DE Soutter Medical(Joint Venture with GMED Pvt Ltd)
2	Model	Acculan 4 Reciprocating Saw	DBR-700	DBC-470
3	Country of Manufacturer	Germany	UK, Supplied by Viessmann Technologies Gmbh	UK
4	Country of origin of product / Model Number	Germany	UK	UK
5	Product Local Market Business History as mentioned in criteria	Yes	Yes	Yes

Page 29 of 33

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

6	Compliance with defined quality standards (FDA 510k, MDD, Jp MHLW, CE as mentioned in the specifications)	CE	FDA	FDA & CE
<b>TECHNICAL SPECIFICATIONS</b>				
1	Operated by a rechargeable battery	Yes (GA676)	Yes	Yes
2	Light weight and handy. Keyless saw blade coupling	Yes	Yes	Yes
3	May have even weight distribution for ideal balance	Yes	Yes	Yes
4	Electronic parts may be integrated into battery pack	Yes	Yes	Yes
5	The system should not require sterilization of the battery.	Yes	Yes	Yes
6	Battery should capable for multiple surgeries.	Yes	Yes	Yes
7	The Saw must be easily sterilizable by autoclaving and plasma sterilization.	Yes	Yes	Yes
8	It should have Battery charger for changing indications of the batteries	Yes	Yes	Yes
9	Sterilization container system with basket including fixing devices for accessories and saw hand piece	Yes	Yes	Yes
10	50 x Sternum Saw blades	Yes (GC761R)	Yes	Yes
	<b>Accessories:</b>			
11	Complete with all standard accessories	Yes	Yes	Yes
12	One Oscillating/Redo Saw Hand piece	Yes	Yes	Yes
	<b>Technical Eligibility of Product</b>	<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
<b>6. EQUIPMENT NAME: AUDIO VIDEO MANAGEMENT SYSTEM, QTY: 1</b>				
1	Brand	ALVO	Caresyntax	Dagri Inzeniring D.O.O.
2	Model	Integra Advanced	CX-Direct	Dagri Integration System
3	Country of Manufacturer	Poland	Germany, Supplied by Viessmann Technologies GmbH	Solvinia(Supplied by: HT Group)
4	Country of origin of product / Model Number	Poland	Germany	Solvinia(Supplied by: HT Group)

Page 30 of 33

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

TECHNICAL SPECIFICATIONS				
1	<b>General Description:</b> Should be modern, lightweight and interconnecting integration solution, The system offers 4K and 3D UHD A/V distribution inside the OT, documentation and audiovisual communication within the hospital environment, designed to be operated from the most compact device in its class. Should be with Compact in design.	Yes	Yes	Yes
i.	A/V Management Video in the operating room – with Signal 4K UHD, 3D and FULL HD according to system.	Yes	Yes	Yes
ii.	Documentation Content management in up to 4K UHD – from the endoscope tower to the HIS.	Yes	Yes	Yes
iii.	Communication Video streaming and audio talkback with bidirectional with elastration.	Yes	Yes	Yes
2	Must Provide brilliant surgical image quality and content management in upto 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.	Yes	Yes	Yes
3	To Experience real time communication with collaboration partners within the hospital.	Yes	Yes	Yes
4	High-definition video streaming to share the surgical image with other consultants or an auditorium in a secure and privacy protected environment.	Yes	Yes	Yes
5	Must Provide Seamless communication be ensured with onboard audio talkback function. Emphasize important anatomical or pathological structures with live video annotations.	Yes	Yes	Yes
6	Elastration on the touchscreen inside the OT can be used to visually annotate the streamed image. Get important consultation of another expert during the surgery should provide Powerful audiovisual communication function. Video streaming and audio talkback with bidirectional Elastration.	Yes	Yes	Yes

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**

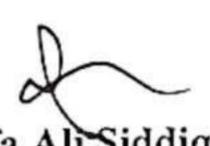
7	8x8 or More video management system in 4K UHD, 3D and FULL HD including PiP/PaP functionality.	Yes	Yes	Yes
8	Must Provide integrated documentation solution in up to 4K UHD	Yes	Yes	Yes
9	Medical education takes time. Share procedures intraoperatively beyond the OT.	Yes	Yes	Yes
10	Must Support HL7 and DICOM	Yes	Yes	Yes
	Note:			
11	Preparation of Room In all respected will be the responsibility of Vendor like:	Yes	Yes	Yes
12	Ceiling/ Wall mount Loudspeaker	Yes	Yes	Yes
13	LCD/LED Non-Medical Grade for Display	Yes	Yes	Yes
14	Wireless Microphone 24 GHz	Yes	Yes	Yes
15	Local LAN NETWORK if required	Yes	Yes	Yes
	<b>Technical Eligibility of Product</b>	<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
	<b>Technical Eligibility of Firm</b>	<b>Eligible</b>	<b>Eligible</b>	<b>Eligible</b>
	<b>Bid Status</b>	<b>Responsive</b>	<b>Responsive</b>	<b>Responsive</b>

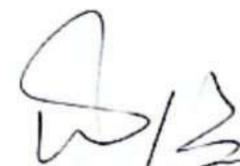
**CONCLUSION:**

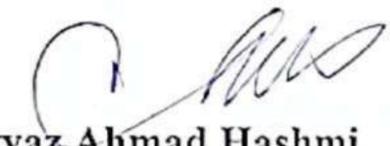
M/S Vertex Medical (Pvt) Ltd, M/S Mediland Pakistan (Pvt) Ltd & M/S Radiant Medical (Pvt) Ltd participated in this tender.

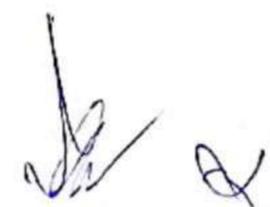
- M/S Vertex Medical (Pvt) Ltd declared as technically responsive.
- M/S Mediland Pakistan (Pvt) Ltd declared as technically responsive.
- M/S Radiant Medical (Pvt) Ltd declared as technically responsive.

  
**Prof. Dr. Muhammad Tahir Mohyuddin**  
 Professor of Cardiology  
 CPEIC, Multan  
 (Chairman TEC)

  
**Dr. Mustafa Ali Siddique**  
 Prof. of Radiology  
 CPEIC, Multan  
 (Member)

  
**Dr. Waqas Hamid**  
 Assistant Prof. of Cardiac Surgery/ End-User,  
 CPEIC, Multan  
 (Co-Member)

  
**Dr. Fayyaz Ahmad Hashmi**  
 Principal Medical Officer  
 CPEIC, Multan  
 (Member)

**TENDER FOR THE INSTALLATION OF (02) TWO MODULAR OPERATION THEATERS (BRAND NEW) ON PAY FOR PERFORMANCE BASIS CPE INSTITUTE OF CARDIOLOGY, ABDALI ROAD, MULTAN**



**Dr. Amir Furqan**  
Assistant Professor of  
Anaesthesia / End-User  
CPEIC, Multan  
(Co-Member)



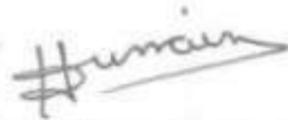
**Dr. Muhammad Suhail Saleemi**  
Asst. Prof. of Cardiology  
CPEIC, Multan  
(Member)



**Dr. Usman Riaz**  
Asst. Prof. of Paediatric Cardiac  
Surgery  
CPEIC, Multan  
(Member)



**Dr. Muhammad Waqas**  
D.M.S Technical  
CPEIC, Multan  
(Member)



**Engr. Hussain Mujtaba**  
Biomedical Engineer  
CPEIC, Multan (Member)

**INSTALLATION OF TWO MODULAR OPERATION THEATRES ON PAY FOR PERFORMANCE BASIS F/Y  
2023-24 FOR CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN**

**MINUTES OF THE MEETING FOR SECOND PRE-BID**

A meeting of Second Pre-Bid for Installation of Two Modular Operation Theatres on Pay for Performance Basis F/Y 2023-24 for Ch. Pervaiz Elahi Institute of Cardiology, Multan was held under the chairmanship of **Prof. Dr. Muhammad Mujtaba Ali Siddique**, Executive Director, CPEIC, Multan, Dated: 28-12-2023 @11:30 AM in the Conference Room of CPEIC, Multan. The following members were present in the meeting:

1	<b>Prof. Dr. Muhammad Mujtaba Ali Siddique</b> , Executive Director, CPEIC, Multan	<b>Head of Cardiac Surgery/End User</b>
2	<b>Dr. Muhammad Iqbal</b> , Medical Superintendent & Chairman Purchase Committee, CPEIC, Multan	<b>Member</b>
3	<b>Ahmed Nawaz Khan</b> , Director Finance, CPEIC, Multan	<b>Member</b>
4	<b>Dr. Farhan Khan</b> , Additional Medical Superintendent/Director Technical, CPEIC, Multan	<b>Member</b>
5	<b>Dr. Hafiz Muhammad Khubaib</b> , Deputy Medical Superintendent (Purchase), CPEIC, Multan	<b>Member</b>
6	<b>Dr. Muhammad Waqas</b> , Deputy Medical Superintendent (Technical), CPEIC, Multan	<b>Member</b>
7	<b>Engr. Hussain Mujtaba</b> , Biomedical Engineer, CPEIC, Multan	<b>Member</b>

**AGENDA: Second Pre-Bid Meeting Regarding Installation of Two Modular Operation Theatres on Pay for Performance Basis for the Financial Year 2023-24**

**PROCEEDINGS:**

Following 06 Nos. firms participated in this meeting:

1. M/S Mediland Pakistan Pvt Ltd
2. M/S Radiant Medical Pvt. Ltd
3. M/S Total Technologies Pvt. Ltd
4. M/S Vertex Medical Pvt. Ltd
5. M/S Eastern Medical Technology Services

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**INSTALLATION OF TWO MODULAR OPERATION THEATRES ON PAY FOR PERFORMANCE BASIS F/Y  
2023-24 FOR CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN**

6. M/S Medtronic Pakistan Pvt Ltd

Sr. No	Firm Reservation/ Suggestions Related to Bidding Documents & Specifications
1	Participating Firms has requested to exempt Bid Security for the sake of Health Competition.
2	Participating Firms has requested to allow Local/Imported Air Handling Unit for the sake of Health Competition
3	Participating Firms has requested to amend the term availability of 24/7 site engineer in Section: III: Terms of Reference.
4	Participating Firms has suggested using galvanized material for wall panelling system.
5	Participating Firms has suggested that they will submitted proper layout of both Operation theatre till 4 <sup>th</sup> January 2024.
6	Participating Firms has suggested eliminating Intra-Aortic balloon Pump & Plasma Sterilizer from specification.
7	Participating Firms has requested to allow performance guaranty in the shape of Bank Guarantee/ CDR
8	Participating Firms has requested eliminating optional Items of Heart Lung Machine & Anesthesia Machine
9	Participating Firms has requested to allow International Experience in the bidding documents/knockdown criteria.

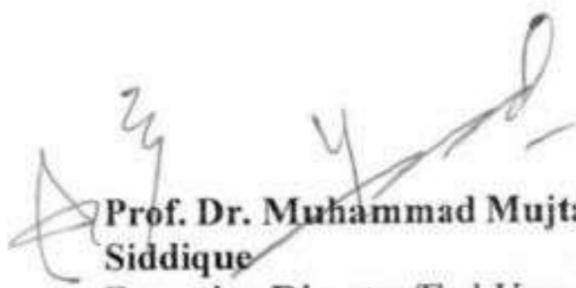
**Conclusion/Decisions:**

In Second Pre-Bid meeting No. 06 firm's participated. The committee heard the view point of the representatives of the firms. The committee after due deliberation and discussion, keeping in view the need of the patients & hospital decided to make following amendments in the Bidding Documents & Specifications for installation of Two Modular Operation Theatres on Pay for Performance Basis:

- 1) Bid Security has been exempted for the sake of Health Competition.
- 2) Local/Imported Air Handling Unit will be accepted for the sake of Health Competition.
- 3) During the contract period service provider will ensure 24/7 technical assistance & will be responsible for keeping equipment in functional state affairs.
- 4) Wall Paneling System should be Galvanized or Stainless steel AISI304 material.
- 5) All the participating firms will submitted proposed lay out/ Drawings of Two Modular Operation Theatre's till 4th January 2024 in the office of the Medical Superintendent CPEIC Multan. Hospital administration will finalize & approve the layout as per requirement of the hospital & same will be shared with all participating firms.
- 6) Intra-Aortic balloon Pump & Plasma Sterilizer has been eliminated from specifications for the sake of cost effective solution.
- 7) Performance Guarantee will only be accepted in the shape of Bank Guarantee/ CDR.
- 8) Optional Items of Heart Lung Machine & Anesthesia Machine has been eliminated from the specifications.

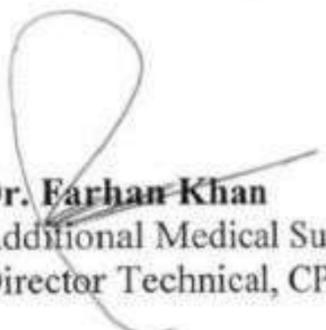
**INSTALLATION OF TWO MODULAR OPERATION THEATRES ON PAY FOR PERFORMANCE BASIS F/Y  
2023-24 FOR CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN**

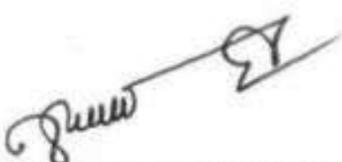
- 9) A Lead Bidder may be Foreign Manufacturers of Modular Operation Theater or Sole Agents / Authorized Distributor of Foreign Manufacturers of Modular Operation Theater with Minimum Three (03) Installations of Modular Operation Theater of Foreign Manufacturer during last 05 Years in Public Sector Institution of Pakistan with the team of concerned Certified Engineers/Application Experts. Procuring Agency through its inspection committee may visit the sites to validate claim.
- 10) Service Provider will be responsible for complete installation of Modular Operation Theatre & allied equipment's.

  
**Prof. Dr. Muhammad Mujtaba Ali  
Siddique**  
Executive Director/End-User,  
CPEIC, Multan

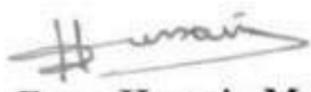
  
**Dr. Muhammad Iqbal**  
Medical Superintendent & Chairman  
Purchase Committee, CPEIC, Multan

  
**Ahmed Nawaz Khan**  
Director Finance  
CPEIC, Multan

  
**Dr. Farhan Khan**  
Additional Medical Superintendent &  
Director Technical, CPEIC, Multan

  
**Dr. Hafiz Muhammad Khubaib**  
Deputy Medical Superintendent  
(Purchase)  
CPEIC, Multan

  
**Dr. Muhammad Waqas**  
D.M.S Technical  
CPEIC, Multan

  
**Engr. Hussain Mujtaba**  
Biomedical Engineer  
CPEIC, Multan

**INSTALLATION OF TWO MODULAR OPERATION THEATRES ON PAY FOR PERFORMANCE BASIS F/Y  
2023-24 FOR CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN**

**MINUTES OF THE MEETING FOR FIRST PRE-BID**

A meeting of Pre-Bid for Installation of Two Modular Operation Theatres on Pay for Performance Basis F/Y 2023-24 for Ch. Pervaiz Elahi Institute of Cardiology, Multan was held under the chairmanship of **Prof. Dr. Muhammad Mujtaba Ali Siddique**, Executive Director, CPEIC, Multan, Dated: 12-12-2023 @11:30 AM in the Conference Room of CPEIC, Multan. The following members were present in the meeting:

1	<b>Prof. Dr. Muhammad Mujtaba Ali Siddique</b> , Executive Director, CPEIC, Multan	<b>Head of Cardiac Surgery/End User</b>
2	<b>Dr. Muhammad Iqbal</b> , Medical Superintendent & Chairman Purchase Committee, CPEIC, Multan	<b>Member</b>
3	<b>Ahmed Nawaz Khan</b> , Director Finance, CPEIC, Multan	<b>Member</b>
4	<b>Dr. Farhan Khan</b> , Additional Medical Superintendent/Director Technical, CPEIC, Multan	<b>Member</b>
5	<b>Dr. Hafiz Muhammad Khubaib</b> , Deputy Medical Superintendent (Purchase) , CPEIC, Multan	<b>Member</b>
6	<b>Dr. Muhammad Waqas</b> , Deputy Medical Superintendent (Technical), CPEIC, Multan	<b>Member</b>
7	<b>Engr. Hussain Mujtaba</b> , Biomedical Engineer, CPEIC, Multan	<b>Member</b>

**AGENDA: First Pre-Bid Meeting Regarding Installation of Two Modular Operation Theatres on Pay for Performance Basis for the Financial Year 2023-24**

**PROCEEDINGS:**

Following 04 Nos. firms participated in this meeting:

1. M/S Mediland Pakistan Pvt Ltd
2. M/S Radiant Medical Pvt. Ltd
3. M/S Total Technologies Pvt. Ltd
4. M/S Vertex Medical Pvt. Ltd



**INSTALLATION OF TWO MODULAR OPERATION THEATRES ON PAY FOR PERFORMANCE BASIS F/Y  
2023-24 FOR CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN**

Sr. No	Firm Reservation/ Suggestions Related to Bidding Documents & Specifications
1	Participating Firms has requested to allow Joint Venture for the sake of health competition.
2	IsoFlurane/ SevoFlurane & Gases required for Cardiac Procedures shall be provided by the hospital.
3	Participating Firms has requested to amend number of Procedures to minimum 70 procedures/ month.
4	Participating Firms has requested to allow spare room in the premises of hospital for the workshop purpose.
5	Participating Firms has requested to increase project completion day's upto 180 days.
6	Participating Firms has requested to return Performance Guaranty after 1 <sup>st</sup> procedure.
7	Participating Firms has requested to include essential equipment's required for procedure in standard specifications.
8	Participating Firms has requested to amend contract period upto 10 years.
9	Participating Firms has requested for advance payment of 1000 procedures.

**Conclusion/Decisions:**

In Pre-Bid meeting No. 04 firms participated. The committee heard the view point of the representatives of the firms. The committee after due deliberation and discussion, keeping in view the need of the patients & hospital decided to make following amendments in the Bidding Documents & Specifications for installation of Two Modular Operation Theatres on Pay for Performance Basis:

1. Joint Venture is allowed for sole distributor/Manufacturer of allied equipment only. For Functionality and maintenance of allied equipment's 70 percent responsibility will lie on Lead Bidder and 30 percent responsibility will be on sole distributor/ manufacturer of the product. Both the parties will submit undertaking.
2. All medicines/ Disposables/Instruments/consumables including IsoFlurane/ SevoFlurane & Gases required for above mentioned procedures shall be provided by the hospital. Consumables required for proper functionality of equipment's installed in Modular Operation Theater will be responsibility of the service provider/Lead Bidder.
3. The government will ensure minimum 50 procedures / Month on aggregate basis during first year of operation / commencement of services. The no. of procedures shall be calculated by combining all procedures performed during a particular month.
4. One dedicated room will be provided to the service provider in the premises of this institute. This room will be used by the service provider as a workshop for equipment repair purpose. Service provider will be responsible for the fabrications & maintenance of this workshop.
5. The service provider will complete the installation in all aspects for a complete package, and make them functional within 180 days for each package from the date of signing of this contract.
6. Performance Guaranty will be returned to the service provider after 60 days from the date of first procedure.
7. Committee has decided to include essential equipment's required for procedure in standard specifications.

*(Handwritten signatures and initials)*

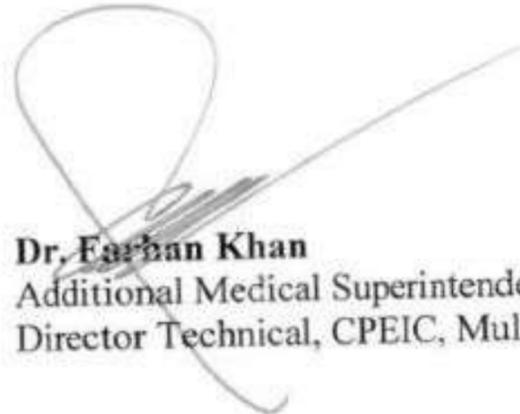
**INSTALLATION OF TWO MODULAR OPERATION THEATRES ON PAY FOR PERFORMANCE BASIS F/Y  
2023-24 FOR CH. PERVAIZ ELAHI INSTITUTE OF CARDIOLOGY, MULTAN**

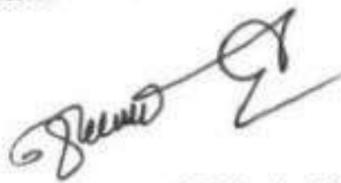
8. The contract will come into force from the date of signing of the contract. However, the services period will start from the date of first procedure within 180 Days of signing of the contract or from the date of completion of delivery period i.e. 180 Days whichever is earlier, and will span for Ten (10) Years. After completion of 10 years of contract all the installations including all mobile equipment's will be property of this institution and only annual service & maintenance will be provided by the service provider at the rate that will be mutually decided between the procuring agency & the service provider at that particular time.
9. No advance payments for procedure will be made to the service provider.
10. Final Contract will be draft by mutual consensus of the administration of this Institute & Service Provider.
11. Next Pre-Bid Meeting will be held on dated: 28-12-2023.

  
**Prof. Dr. Muhammad Mujtaba Ali  
Siddique**  
Executive Director/End-User,  
CPEIC, Multan

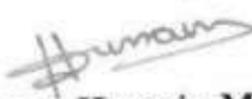
  
**Dr. Muhammad Iqbal**  
Medical Superintendent & Chairman  
Purchase Committee, CPEIC, Multan

  
**Ahmed Nawaz Khan**  
Director Finance  
CPEIC, Multan

  
**Dr. Farhan Khan**  
Additional Medical Superintendent &  
Director Technical, CPEIC, Multan

  
**Dr. Hafiz Muhammad Khubaib**  
Deputy Medical Superintendent  
(Purchase)  
CPEIC, Multan

  
**Dr. Muhammad Waqas**  
D.M.S Technical  
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**Engr. Hussain Mujtaba**  
Biomedical Engineer  
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