


TECHNICAL EVALUATION MEETING OF EQUIPMENTS IN CPE INSTITUTE OF CARDIOLOGY MULATAN ON 03-02-2016

COMPARATIVE STATEMENT FOR HEART LUNG MACHINE (FOR ECMO +VAD) WITH TRANSPORTATION FACILITY, Part-B, QTY:01

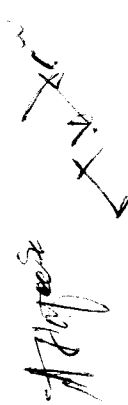
Specifications		M/S Med Impex Lahore	M/S Mediland Pakistan Lahore
Sr#			
	Model	Rota Flow ECLS	Cardiohelp
	Make	Maquet	Maquet
	Country of Origin: USA / Europe / Japan	Germany	Germany
	Authorization	No Sole Distributor	Yes
	Certification: (FDA (510K) / CE / JIS)	FDA/CE	FDA/CE
	Warranty: 5 Years Comprehensive with parts & spare including backup services	5 Years	5 Years
	OBJECTIVES & PREREQUISITES:		
1			
2	System shall be optimal for ECMO (Extra Corporeal Membrane Oxygenation) and ECLS (Extra Corporeal Life Support Therapy)		TE Compliance
3	System shall provide complete system solution for long-term support of heart and lung function in adults, pediatrics, and infants.		TE Compliance
4	System should provide extracorporeal support to replace or support the patient's circulation and respiration		TE Compliance
5	System should be comprised with disposables, integrated sensors and software versions.		TE Compliance
6	System shall have single pump module for adult, Peads and infants		TE Compliance
	THERAPIES:		TE Compliance
7	MECC (Minimal Extracorporeal Circulation): Minimally-invasive perfusion system for on-pump CABG surgery, full support for heart and lung for pumping and gas exchange (up to 6 hours)		TE Compliance
8	Left Ventricular Assist Device (LVAD) & Right Ventricular Assist Device (RVAD): Designed for patients with myocardial failure for ventricular support, as an extracorporeal.		TE Compliance
9	V-V ECLS (Veno-Venous Support): Respiratory failure without cardiac impairment e. g. ARDS, bridge to lung transplant, support of gas exchange for up to 30 days with focus on oxygenation		TE Compliance

Smt Razzaq
 M/S Med Impex
 M/S Mediland Pakistan
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10	V-A ECLS (Veno-Arterial Support): One system fits all, from fast deployable emergency lifesaving support to long term with oxygenation possibility support of heart and lungs for up to 30 days.		TE Compliance
11	PALP (Pump Assisted Lung Protection): Severe respiratory failure: e.g. ARDS; severe COPD (chronic obstructive pulmonary disease), extracorporeal CO ₂ removal enables protective ventilation		TE Compliance
	COMPONENTS:		TE Compliance
12	Pump should work on centrifugal technology which can be used for long term ECMO up to 30 days or more.		TE Compliance
13	Should flow 0-10 LPM.		TE Compliance
14	Should generate RPM :0-5000		TE Compliance
15	Approximately Power rating: 220 volts, 50-60 Hz and 12 or 24 volts DC.		TE Compliance
16	Portable emergency hand crank as a safety reason.		TE Compliance
17	Lightweight console which can easily be carried by one person and is sufficiently compact to be used during transport.		TE Compliance
18	Battery backup at least 1.5 hour or more with provision for battery exchange.		TE Compliance
19	LCD touch screen to display the following:		TE Compliance
20	04 external pressures in mmHg		TE Compliance
21	03 internal pressures in mmHg		TE Compliance
22	04 external temperatures in °C		TE Compliance
23	02 internal temperatures in °C		TE Compliance
24	01 Venous blood oxygenated saturation (SVO ₂)		TE Compliance
25	01 Hemoglobin		TE Compliance
26	01 Hematocrit		TE Compliance
27	01 flow sensor with integrated Arterial bubble sensor to measure flow rate and bubbles.		TE Compliance
28	01 Venous Bubble Sensor		TE Compliance

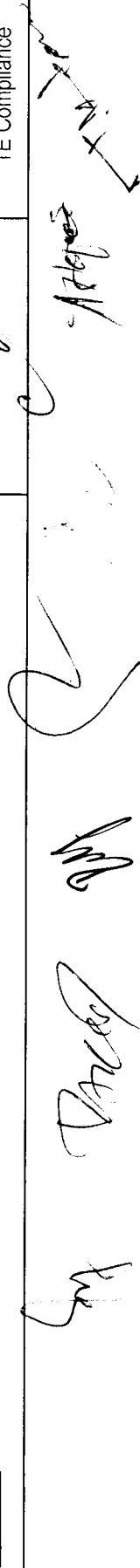


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29	01 Level Sensor safety system with level sensor pads.			TE Compliance
30	Back flow prevention mode(zero Flow)			TE Compliance
31	Data recording facility with USB Port or PC.			TE Compliance
32	03 resetable clock timers.			TE Compliance
33	01 countdown timer			TE Compliance
34	System should be suitable for <u>OR, ICU/CCU/Cath Lab/Emergency Ward and transportation.</u>			TE Compliance
35	Dual mode of control: (LPM – Litres per minute; RPM- Revolutions Per minute)			TE Compliance
36	Back flow detection system			TE Compliance
37	Alarm settings for all vital parameters.			TE Compliance
38	Console Lamp with cable. Facility of flexible LED lamp with battery backup			TE Compliance
39	Complete supply of battery, cables, UPS and related accessories			TE Compliance
40	Should have road and Air transport approval			TE Compliance
41	Should be CE/FDA Approval			TE Compliance
42	<u>Sprinter cart/Trolley imported.</u>			TE Compliance
43	Should be stainless steel body			TE Compliance
44	Height adjustable infusion pole mast			TE Compliance
45	Inbuilt gas cylinder holder			TE Compliance
46	Should be able to incorporate all components of the ECMO system			TE Compliance
47	Wheels for easy transportability			TE Compliance
48	<u>Electronic/Mechanical Gas Blender (Oxygen Air Mixture) with complete set of Accessories.</u>			TE Compliance
49	Batteries Qty:02			TE Compliance
	<u>Optional:</u>			TE Compliance



50	<u>Disposable Set: V-A & V-V ECMO Module combine for Circulatory +respiratory and respiratory support</u> <u>Including ECMO Cannulas</u>			TE Compliance
51	<u>Disposable Set: Minimal Extracorporeal Circulation (MECC) Including ECMO Cannulas.</u>			TE Compliance
52	<u>Disposable Set: LVAD& RVAD Including ECMO Cannulas</u>			TE Compliance
53	<u>Disposable Set: Pump Assisted Lung Protection. Including ECMO Cannulas</u>			TE Compliance
54	Should have 30 days CE/FDA certification for continuous usage.			TE Compliance
55	<u>Heating Unit with its complete accessories:</u>			TE Compliance
56	Compact and lightweight console.			TE Compliance
57	Onsite support :			TE Compliance
58	Training for team on site :1x perfusionist , 1x cardiac surgeon			TE Compliance
	REMARKS	TNA	TA	

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