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Government of Pakistan  
Prime Minister's Office  
National Disaster Management Authority  
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Islamabad the 3<sup>rd</sup> July, 2020

**EMERGENCY TENDER NOTICE FOR PROCUREMENT OF MISC MEDICAL EQUIPMENT FOR  
COVID-19**

**CORRIGENDUM**

In addition to 08 medical equipment, competent Authority is pleased to add procurement of 03 more medical equipment alongwith quantity and specs as follows:

S. No.	Description	Qty
01.	Dialysis Machines	10
02.	ECG Machine – 3 channel	10
03.	Ultrasound Machine	25

**TECHNICAL SPECIFICATION DIALYSIS MACHINES**

Sr. #	Description	QTY
1.	Country of origin USA / WESTERN EUROPE / JAPAN	10
2.	Sole Agent certificate	
3.	02-year standard warranty with all parts	
4.	Reference for the quoted equipment, accompanied with performance certificate from the previous user.	
5.	Technical data sheet (original brochure both technical and sales)	
6.	FDA Approved / CE Mark.	
7.	<b>Technical specifications:-</b>	
8.	LCD screen 10 “ or more	
9.	Machine should have facility for Acetate, Bicarbonate, Sequential dialysis (Isolated)	
10.	The blood pump should run even in the absence of water or dialysate flow.	
11.	Should have various parameters profiling.	
12.	Dialysate temperatures selectable over a suitable range	
	Variable conductivity setting	
13.	Should have variable dialysate flow over wide range	
14.	Heparin pump – syringe based should be available	

15.	Single needle dialysis facility should be available	
16.	Treatment parameters should be displayed by the machine at the time of operation (General)	
17.	Should have auto ON/OFF Facility	
18.	Blood pump rate over a wide range adaptable to various A-V blood lines	
19.	Built-in Heat Disinfection	
20.	Sodium and Ultrafiltration profiling	
21.	Blood Pressure monitor	
22.	Battery backup 20 min or more	
23.	Patient safety features like Audio visual alarms on limit violation of conductivity, blood leak, air leak, transmembrane pressure alarms,, Dialysate temperature alarm,dialysate can empty alarm, end of disinfection alarm, bypass alarm and blood pump stop alarm.	
24.	Power input to be 230VAC, 50Hz.	
25.	All consumables required for installation to be given free of cost.	
26.	3 kVA voltage stabilizer – servo type)	
27.	Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test.	
28.	User/Technical/Maintenance manuals to be supplied.	
29.	All prerequisites required for installation of the machine is the responsibility of the vendor.	
	<b>Documentation</b>	
30.	Original Certificate for Country of Origin by the Manufacturer with the supply of equipment.	
31.	User manual in English (Preferably).	
32.	Service manual (including Maintenance / Schematics & calibration) in English (Preferably).	

**RO plant for 10 dialysis machine with imported parts locally assembled will be quoted separately**

<b>ECG Machine – 3 Channel</b>	
1.	Sole Agent certificate
2.	<b>03 years warranty with parts</b>
3.	Original Technical data sheet
4.	<b>FDA Approval</b> with K number/ CE marking with MDD compliance/ MHLW any two certificate
5.	Simultaneous 3 Channel ECG recording with 12 lead simultaneous acquisition
6.	Should have visual alarm for open lead

7.	Should have a digital display of 3 channel ECG
8.	ECG Machine should have 3 modes of operation – Automatic, Manual & Rhythm
9.	Should have a maintenance free digital thermal array printer Local Market
10.	Printer should be able to print ECG report and should have on/off selection
11.	Should be compact and portable, and should have carry handle for portability.
12.	Should have ECG lead annotation facility
13.	Equipment should have sufficient battery backup for taking minimum 100 ECG without AC power
14.	Should be supplied with 2 patient cable sets, 8 clips on electrodes, 12 chest
15.	Electrode with silicone rubber bulb, 12 packets / Rolls of recording paper & 1 bottle of jelly.
16.	Should operate on mains(220v-50Hz) and rechargeable battery (built in) no external charger
17.	Recording speed should be 25 mm/ sec and 50 mm/ sec.
18.	Should have defibrillation protection.
19.	CMRR should be >90dB or the Sampling rate should be > 7000
20.	Should have a digital filter for AC and EMG.
21.	High quality mobile trolley with cable hanger
22.	<b>Documentation</b>
23.	Original Certificate for Country of Origin by the Manufacturer with the supply of equipment.
24.	User manual in English
25.	Service manual (including Maintenance / Schematics & calibration) in English

**TENDER SPECIFICATION FOR THE PURCHASE OF ULTRASOUND MACHINE,**

<b>Sr. #</b>	<b>Description</b>			
1.	General-purpose High-end Color Doppler System			
2.	Trolley Mounted/Cart based unit.			
3.	<b>19" LCD/TFT Monitor.</b>			
4.	Color Flow Mapping/Pulse Wave			
5.	Frame Rate 500 fps or more in B Mode			

6.	Cine loop Memory			
7.	B-Flow and Dynamic Flow Package.			
8.	Measurement Packages for abdominal, Gynecology, obst and other standard software			
9.	<b>Probes.</b>			
10.	One convex probe for abdominal Examination.			
11.	One linear probe			
12.	Oner sector probe (optional)			
13.	Online UPS Backup with 15 min at least imported best quality			
14.	Digital B/W Thermal Printer with high density high glossy paper roles Qty 50.			
15.	Sole Agent certificate REQUIRED			
16.	02-year warranty			
17.	Reference for the quoted equipment accompanied with performance certificate from the reference			
18.	Technical data sheet (original brochure both technical and sales)			
19.	FDA Approval with K number/ CE marking with MDD compliance/ MHLW (any two)			
20.	<b>Documentation</b>			
21.	Original Certificate for Country of Origin by the Manufacturer with the supply of equipment.			
22.	User manual in English (Three copies).			
23.	Service manual (including Maintenance / Schematics & calibration) in English (Three copies).			