

Medical Equipment - Technical Specifications

1 Hemodialysis Machine

Manufacturer: _____ **Origin:** _____ **Model:** _____

No.	Item Specifications	Compliance	Your Specifications
1	The machine must be designed to perform types of hemodialysis and conform to international specifications and standards		
2	The operating system must be the latest operating system from the manufacturer		
3	That the electrical system be identical to the current system in Sudan (220---240) volt (50---60) Hz		
4	It has the ability to work with dry battery when an (AC) power failure occurs (back up battery)		
5	It contains advice to measure patient's blood pressure (A B P M)		
6	It has the ability to control the dialysis fluid flow from (0----up to 800) ml/min		
7	It has the ability to work with thermal and chemical sterilization system together		
8	It has the possibility of operation with solution and dry powder (cart or bibag)		
9	It has the feature of self-control in the diameter of the blood pumping divider (6.8 --- 8)mm2		
10	It has the feature of controlling removing Urea (Kt/v) (Diascan)		
11	It has the feature of self-control when any emergency or malfunction occur		
12	There should be a display showing the date related to the operation and procedures of the hemodialysis process		

2 Chair for Hemodialysis Machine

Manufacturer: _____ **Origin:** _____ **Model:** _____

No.	Item Specifications	Compliance	Your Specifications
1	The chair must be designed to hemodialysis and conform to international specifications and standards		
2	To work by electrical current system and be identical to the current system in Sudan (220 or 240) volt (50 or 60) Hz		
3	Operating system with remote control		
4	The possibility of operating with a dry battery (back up battery)		
5	It contains number of different movements for (leg / head / back)		
6	To bear the weight of more than (200) kg		
7	The (length width height) of chair must be taken into account(more than) (1900---600--900)mm		
8	The materials from which the chair frame is made must be solid unbreakable and easy to clean		
9	The materials used for upholstery and dressing must be flexible , comfortable and easy to clean medical materials		

3 Water Treatment System

Manufacturer: _____ **Origin:** _____ **Model:** _____

No.	Item Specifications	Compliance	Your Specifications
1	That the water purification plant is designed for (HD) Hemodialysis process and has an internationally recognized and proven brand		
2	It should consist of the following :-		
2.1	Sand filter with digital automatic head		
2.2	Carbon filter with digital automatic head		
2.3	Double filter softener with digital automatic head for each separate filter 4/ A reverse osmosis (RO) device containing a number of membranes of (40*40---or 40*20) sizes together		
3	A primary tank contains a high pressure pump made of stainless steel		
4	That the electrical current system be identical to the system applied in Sudan (220---240 VOLT) 50---60 Hz)		
5	Operating capacity (20) machines		
6	It has the possibility of chemical sterilization and cleaning together		
7	All pumps used must be of stainless steel		
8	It contains devices that control the water pressure and level during operation		
9	All filter heads and the (RO) reverse osmosis contain a key board with a screen for displaying data and clarifying all necessary measurements		
10	All connections after the (RO) reverse osmosis system are made of (P V C) material specific for hemodialysis		
11	The external cooling system must be added to the stations that have the possibility to work in it and in the absence of it affects its performance and efficiency		
12	All filters / controls / materials / sensors are used must be from international companies recognized as one unit is not divided		
13	Attach the catalogs to show this		