AYUB TEACHING HOSPITAL DEPARTMENT OF NEPHROLOGY

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Mr. Sajjad Alam Deputy Director EM AMTI, Abbottabad.

Subject: Specifications for Dialysis Machine and Dialysis Chairs

In response to the letter ATH/EME/956-58-2023 dated 11-04-2023, dialysis machines and chairs with following fundamental specifications are required for up gradation of the Dialysis Unit, ATH. We also need mandatory backup servicing and maintenance facility (including weekly preventive maintenance) for minimum 5 years (warranty)guaranteed by the company interested.

Dialysis Machine Specifications:

- 1. LCD touchscreen display
- 2. Monitoring window, Full ultrafiltration display
- 3. Digital and Graphical Monitoring
- 4. Online dialysis dose/ clearance monitoring
- 5. BP monitoring
- 6. Dialysis fluid inter to generate ultra pure dialysis fluid
- 7. Single needle or double needle system with singlepump
- 8. Isolated ultrafiltration program
- 9. Ultrafiltration and sodium profiling
- 10. Volumetrically controlled ultrafiltration
- 11. Central concentrate delivery system
- 12. Arterial pressure monitoring
- 13. Venous pressure monitoring
- 14. Transmembrane pressure monitoring
- 15. High or low Pressure alarm systems
- 16. Arterial blood pump flow range (15-600ml/min)
- 17. Air bubble detector (ultrasonic/optical)
- 18. Blood leak detector (<=0-5 ml blood/min at 800ml/min flow)
- 19. Heparin pump with bolus function
- 20. Dialysate flow (0-800ml/min)
- 21. Adapted flow option
- 22. Temperature range (35-39C)
- 23. Adjustable mixing ratio for acid component
- 24. Adjustable bicarbonate component (-8 to +8 mmol/L)
- 25. Dry bicarbonate concentrate
- 26. UF rate: 0 to 4 litres

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- 27. Integrated Hot rinse (85-95C)
- 28. Battery backup (minimum half hour)
- 29. Real time bicarbonate and Conductivity monitoring and alarm system
- 30. Conductivity (12.8 16 ms/cm)
- 31. Chemical and heat disinfection
- 32. Bi-cart holder assembly
- 33. Dialysate filter holding
- 34. Automatic powder backup

Dialysis Chair Specifications:

- 1. Adjustable back, legs, height, foot rest
- 2. One touch position for height, back, and other adjustment
- 3. One touch emergency position
- 4. Safety back rest
- 5. Easy clean, dust proof, water proof
- 6. Reduce the risk of crush injuries
- 7. Lumbar and lateral support
- 8. Easy side transfer
- 9. Weight capacity 200kg
- 10. Central braking system

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Copy to:

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