**Technical Specification**

**Syringe pump**

1. Should be easy to use and nurse friendly.
2. Should have automatic syringe size and model detection
3. Should have large format LCD/TFT display.
4. Should have a minimum flow rate range from 0.1 – 1200 ml/hr for 50ml syringe, 0.1 – 100 ml/hr for 20ml syringe and 0.1 – 60 ml/hr for 10ml syringe.
5. Syringe range from 20-50/60 ml.
6. Should have a flow rate accuracy of ±2%
7. Should have a bolus rate up to 1000ml/hr for 50 ml syringe.
8. Should have automatic and manual bolus.
9. Should have at least 3 levels of programmable occlusion pressure.
10. Should have automatic bolus reduction system to avoid accidental bolus delivery after occlusion incident.
11. Should have a rechargeable battery with back up time of minimum 3 hours.
12. Pump must trigger following alarms with visual indication:
   i. Occlusion Pressure Alarm
   ii. KVO or 3 min pre-alarm
   iii. Syringe empty and volume infused alarm
   iv. Internal malfunction and Battery Charge Low Alarm
   v. Syringe disengaged and incorrectly placed alarm
   vi. Alarm loudness control.
   vii. No mains
   viii. Line disconnected (rapid pressure drop).
13. Should work with input 200 to 240Vac 50 Hz supply.
14. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.