

**PRICE BID FOR ANASTHESIA DEPARTMENT EQUIPMENTS**

EarnestMoneyRs...../-enclosed  
NSC/FDR/CDRNo.

Security money 10% of the cost  
Of the article.

**Department-ANASTHESIA**

Sl.No.	Name of the article& Technical Specification	Cost of the article per unit
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### **3. Syringe Infusion Pumps**

- 1) The syringe pump should be programmable, user friendly, safe to use and should have battery backup and comprehensive alarm system.
- 2) Must Work on commonly available standard 5ml/10ml/20ml/50ml/60 ml Syringes with accuracy of minimum of +/-2% or better, with automatic syringe size recognition.
- 3) Manufacturer should be ISO and CE certified for quality standards.
- 4) Flow rate programmable from 0.1 to 1000 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF.
- 5) Bolus rate should be programmable to 40 to 1000 ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 0.5 ml delivered bolus.
- 6) Display of Drug directory of more than 50 drugs, customised and adjustable.
- 7) Key board locking system for patient safety.
- 8) Keep Vein Open (KVO) must be available 1.0 ml/hr or set rate if lower than 1.0 ml. User should have choice to disable KVO whenever desired.
- 9) Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg.
- 10) Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot; disengaged plunger, unsecured barrel etc.
- 11) Manual pusher with plunger protection guard.
- 12) Anti bolus system to reduce pressure on sudden release of occlusion.
- 13) Should have comprehensive ALARM package including: Occlusion limit exceed alarm. Near end of infusion pre-alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery pre-alarm and alarm, AC power failure, Drive disengaged and preventive maintenance.
- 14) Rechargeable Battery having at least 8 hours backup for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.
- 15) Mounting device/ Docking Station for two or four pumps as per requirement so as to enable to power up to 2-4 pumps with one power cord when mounted on IV pole.
- 16) The unit shall be capable of stored and operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-90%
- 17) Power input to be 220-240VAC, 50Hz.
- 18) Comprehensive warranty for 5 years and provision of CMC for next 5 years.
- 19) Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
- 20) User Manual and service manual in English.
- 21) Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
- 22) Performance report in the last 3 years from major hospitals should be enclosed.
- 23) User list to be provided with performance certificate.
- 24) List of important spare parts and accessories with their part number and costing.



1-SHOUTABLEUPS/CVT

2-Warranty/CMCDATEDONINTALLATION5YEARS.

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Signature of Tenderer

Signature of Witness:

Name:

Full Address:

Name of the Tenderer:

Address of Firm

With stamp