

Notice Inviting e-Tender
West Bengal Medical Services Corporation Limited
Swasthya Bhawan Complex
GN-29, Salt Lake, Sector-V
Kolkata-700091

Phone No (033) 23577070/40340307/40340308

E mail: deo.wbmisc@gmail.com, md.wbmisc@gmail.com

SUPPLY OF SYRINGE PUMP IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMISCL/NIT-61/2014	Dated-29.11.2014
----------------------------------------	------------------

2nd call of tender no. WBMISC/ NIT-53/2014, dated 08.08.2014

The following amendment have been made in the tender document,

Amendment - I

REVISED TECHNICAL SPECIFICATION

Syringe Pump

A. Essential

1. Microprocessor controlled pump capable of propulsion of fluids accurately.
2. Syringe compatibility: The pump should work with different brands of syringes and is able to accept syringes with volumes of 10 ml – 50 ml.
3. There should be automatic detection of syringe size.
4. It should be equipped for detecting correct fixing of syringe.
5. Flow rate should be adjustable from 0.1 ml/hr to 1000 ml/hr.
6. Flow rate should be adjustable in increments of 0.1 ml/hr.
7. Flow rate adjustment should not involve stopping of the existing infusion rate.
8. The accuracy of flow rate should be $\pm 2\%$.
9. The flow rate should be displayed in ml/ hr. Delivery rate can be calculated automatically by pre-setting of volume & time. It should also accept values in mg/ hr, μ g/ hr, mg/ kg/ hr etc.
10. It should be able to deliver bolus dose in automatic/ manual mode.
11. Pump should have commonly used drugs library of 40 or more.
12. It should work on 200 – 240 VAC, 50 Hz source and in-built rechargeable battery.
13. Internal battery life should be minimum of 6 hrs when fully charged.

14. Pump should have LED/ LCD display.
15. The following audio and visual alarms should be incorporated:
 - a) Main changeover to battery indication
 - b) Alarm for occlusion volume of less than 0.5 ml
 - c) Near empty syringe
 - d) Low battery
 - e) Standby alarm
16. There should be a method of automatic bolus volume reduction after occlusion release.
17. There should be provision for setting of occlusion pressure alarm.
18. The pump should be waterproof so that fluid should not enter inside the pump in case of accidental spillage.
19. The syringe pumps should be capable of standalone functioning as well as being fixed on a frame/platform/stand.
20. Power cord should be supplied with 3 meters in length.
21. Cost of all accessories and spares including the cost of rechargeable battery should be mentioned in form 10 (a) & 10 (b) separately.
22. **Standards, Safety and Training**
 - i). It should be CE or US FDA approved (Certificate to be submitted).
 - ii). It should **have onsite service facility**. The service provider should have necessary equipments recommended by the manufacturer to carryout preventive maintenance test as per guidelines provided in the service/ maintenance manual.
 - iii). Warranty for 5 years and 5 years CMC after warranty.

B. Desirables (*Qualifying marks in Desirable is 60*)

SL. No.	Variables	Characteristics	Points
1	Compatibility with small volume of syringe (in ml)	< 10	10
		10	5
2	Minimum flow rate (ml/ hr)	< 0.05	15
		≥ 0.05 to < 0.1	10
		0.1	5
3	Maximum flow rate (ml/ hr)	> 2000	10
		≥ 1200 to ≤ 2000	5
		> 1000 to < 1200	1
4	Flow rate increment (< 100 ml) in ml/ hr	< 0.1	15
		≥ 0.1	5
5	Accuracy of set delivery rate	≤ ± 1%	10
		≤ ± 2% to > ± 1%	5

6	Minimal setting of alarm for occlusion pressure	< 50 mm of Hg	10
		50 to 99 mm of Hg	5
		≥ 100 mm of Hg	1
		Fixed	1
7	Maximum setting of alarm for occlusion pressure	upto 150 mm of Hg	10
		upto 500 mm of Hg	5
		> 500 mm of Hg	1
8	Internal battery backup @ 5 ml/ hr or equivalent	≥ 15 hrs	10
		≥ 10 hrs to < 15 hrs	5
		< 10 hrs	1
9	Bolus rate (ml/ hr)	> 1500	10
		1000 - 1500	5
		< 1000	1
10	Setting of KVO mode	Available	10
		Not available	1
Total			100