



## Notice Inviting e-Tender

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SUPPLY AND COMMISSIONING OF FACILITY BASED NEWBORN CARE (FBNC)  
EQUIPMENTS IN THE HOSPITALS AND AND MEDICAL COLLEGES OF THE GOVT. OF  
WEST BENGAL

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT- 38 /2017

Dated – 20.07.2017

The following amendment have been made in the tender document,

### Amendment –V (Revision of Technical Specification)

The revised technical specifications for the item is given below,

#### Pulse Oxymeter

A. **Essential**

1. It should be portable, light weight and desktop pulse oxymeter.
2. It should have a large LED / LCD display (minimum size of 4.0 inches) so that numerical values are readable from a distance of at least 10 feet with naked eyes. Display should

indicate numerical values of oxygen saturation and pulse rate along with graphical display of plethysmogram.

3. It should have a SpO<sub>2</sub> range of 1 to 100%.
4. It should have visual alarm for both upper and lower SpO<sub>2</sub> and Pulse rate and adjustable audio alarm volume.
5. It should have a facility to capture data for real time analysis at least for 24 hours.
6. **The following SpO<sub>2</sub> probes and cable should be supplied with the machine:**
  - a) Reusable neonatal probes (flex with moulded or detachable type rubber or silicon made): 2 (two) nos.
  - b) Finger probe including cable: 1 (one) nos. The cable length should not be less than 3 meters.

The warranty of each probe should be minimum of 01 (one) year. In case, a probe does not work within 1 (one) year from the date of its first use, the bidder will have to replace it by a new one.

7. It should have a minimum 5 hours of internal battery back-up. The battery should be rechargeable type.
8. **Standards, Safety and Training**
  - i. The Product should have safety certificate from a competent authority US FDA and CE (“Conformite Europeene”) from European Union notified body having 4 digit identification number (Copy of certificate to be produced).
  - ii. The medical devices should be ISO certified manufacture.
  - iii. Should have onsite service facility. The service provider should have the necessary equipment recommended by the manufacturer to carryout preventive maintenance test as per guidelines provide in the service / maintenance manual.
  - iv. Environmental Factors  
Operating temperature. . . . . 10°C to 40°C  
Storage temperature . . . . .-10°C to 50°C  
Operating humidity. . . . . 15% to 95%
9. Warranty for 2 years and 5 years of CMC after warranty. The warranty and CMC includes entire equipment including battery, SpO<sub>2</sub> extension cable etc. except probes.

10. Bidder should quote the price of different types of cables, battery and probes etc. in Form 9 (a) & 9 (b). The same rate will be valid for 02 (two) years. After 02 (two) years, the rate may vary but should not exceed RBI inflation index.

**B. Desirables (*Qualifying marks in desirable is 65*)**

S. No.	Particulars/ Items	Characteristics	Variations	Points
1	Signal delay (Response time)	< 15 sec	NA	20
		15 sec to 25 sec	NA	10
		> 25 sec	NA	1
2	Averaging time	< 3 sec	NA	15
		3 sec to 8 sec	NA	10
		> 8 sec	NA	5
3	Accuracy of SpO <sub>2</sub> (70% - 100%)	With motion	± 2 digits	5
			± 3 digits	3
			Not available	0
		With low perfusion	± 2 digits	5
			± 3 digits	3
			Not available	0
4	Accuracy of pulse rate	With motion	± 3 digits	5
			± 5 digits	3
			Not available	0
		With low perfusion	± 3 digits	5
			± 5 digits	3
			Not available	0
5	Frequency of capturing data for trending	Every 2 sec interval	NA	10
		Every 4 sec interval	NA	5
		Every 8 sec interval	NA	1
6	Frequency of capturing data for future review	Every 2 sec interval	NA	5
		Every 4 sec interval	NA	3
		Every 8 sec interval	NA	1
7	Duration of trending with data captured every 4 sec interval or equivalent duration if captured every 2 or 8 sec interval	> 120 hrs	NA	10
		48 hrs to 120 hrs	NA	8
		< 48 hrs	NA	5
8	Internal battery back up	> 9 hrs	NA	10
		5 – 9 hrs	NA	5
		< 5 hrs	NA	1
9	Screen Size	> 5 inches	NA	10
		4.0 – 5 inches	NA	5