



## Notice Inviting e-Tender

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SUPPLY AND COMMISSIONING OF MEDICAL EQUIPMENTS FOR BLOOD COMPONENT SEPARATION UNIT FOR THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVT. OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- 76 /2018

Dated-25.04.2018

**The following amendments have been made in the tender document,**

### **Amendment-XI      (Applicable for Schedule XIV)**

## **TECHNICAL SPECIFICATION**

### **SEMI AUTOMATED ELISA READER WITH PRINTER, SEMI AUTOMATED ELISA WASHER & MICROPIPETTES**

#### **1. Semi Automated ELISA Reader**

- a) Photometer 8 - 12 measurement channel
- b) Wave length range 405 - 620 nm with upgradable slots should be available.
- c) Filter: 405, 450,492 & 620 nm with optional additional filters.
- d) Absorbance range 0 to 4.0 OD
- e) Reading time for 96 well plates will not exceed 20 seconds.
- f) Should be capable of reading in Multi level volume content
- g) On board shaking with programmable time
- h) Should have LED / Halogen light source & free replacement of light source for 10 years with free calibration at the time of changing of light source.

- i) Calibration of the reader should be at least once a year during the period of warranty & CMC without any additional cost.
- j) **Product Certification:**  
CE (Declaration of Conformity on compliance with In Vitro Diagnostic Device Directive (IVD) - 98/79/EC)  
  
OR  
US FDA (The product must be enlisted under US FDA and the quoted model must have US FDA permission to market in US & export to other countries.
- k) **Quality Certification:** ISO certificate
- l) Compatible good quality UPS with appropriate KVA – 30 minutes backup
- m) The UPS with battery should also be under warranty & CMC.

**Programming:**

- i). Provide Levy Jennings chart recording system for QC & printout facility or provide a software which will provide the Levy Jennings chart after putting the values of control as well as calculation of Levy Jennings with E-Ratio and will incorporate the old control values automatically.
- ii). Multi blank programming facility, various types of cut off programme
- iii). Should be capable of printing results for 8 x 12 wells.
- iv). Should provide computer with licensed software and compatible printer during warranty & CMC period.
- v). Reader compatible licensed software should have unlimited uploading during warranty & CMC period.

**2. Semi Automated ELISA Washer**

- a) Cross wise aspiration, over flow washing, bottom washing
- b) Automatic manifold detection
- c) 8 or 12 channel manifold
- d) Plate carrier auto cleavable and also can be sterilized
- e) Equipment should be capable of using compatible bottle or container (should be supplied with additional 4 bottles)
- f) Volume of wash liquid dispensed 50 to 350  $\mu$ l with 50  $\mu$ l increment
- g) Suitable for UV & flat bottom micro plate etc.
- h) Residual volume per well < 2  $\mu$ l
- i) Waste bottle with fluid sensor should be provided
- j) **Product Certification:**  
CE (Declaration of Conformity on compliance with In Vitro Diagnostic Device Directive (IVD) - 98/79/EC)

OR

US FDA (The product must be enlisted under US FDA and the quoted model must have US FDA permission to market in US & export to other countries.

k) **Quality Certification:** ISO certificate

### 3. Micro Pipettes\*

- a) Fully auto claveable with tip rejecter
- b) Control button shall be operated by very low operating force
- c) Ejector shall be operated by very low operating force
- d) Should have two auto claveable trays

NOTE – i) Should provide calibration certificates from NABL accredited agency every year during

warranty & CMC period.

ii) Calibration cost will have to be borne by the supplier.

- The following set of Micropipettes should be supplied with each ELISA Reader & Washer

SL.NO.	MICROLITRES ( $\mu$ L)	Quantity
1	2 – 10 $\mu$ L	2
2	10–100 $\mu$ L	2
3	100 – 200 $\mu$ L	2
4	200 – 1000 $\mu$ L	1
5	Adjustable 8 channel (40-300 $\mu$ L)	2

- Capability and Reproducibility of the Micropipettes:

SL.NO.	MICROLITRES ( $\mu$ L)	ACCURACY	REPRODUCIBILITY
1	2-10 $\mu$ L	$\pm$ 1%	1% - 0.5%
2	10-150 $\mu$ L	$\pm$ 1%	1.5% - 1%
3	100-1000 $\mu$ L	$\pm$ 1%	0.5 – 0.4%

NOTE: The combination of micropipettes in terms of set has been given from 2  $\mu$ L. to 1000  $\mu$ L., which is indicative in nature. Any other combination to cover this volume may be considered.

e) Product Certification:

CE (Declaration of Conformity on compliance with In Vitro Diagnostic Device Directive (IVD) - 98/79/EC)

OR

US FDA (The product must be enlisted under US FDA and the quoted model must have US FDA permission to market in US & export to other countries.

**\*The micropipettes may or may not be from the same manufacturer of ELISA Reader and Washer, but they must comply with the tender specification (Sartorius / Pipettman / Biohit / Eppendorf/ Thermo fisher / Gilson)**