

**Notice Inviting e-Tender**  
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SUPPLY OF BLOOD-BANK EQUIPMENTS IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-14/2015

Dated- 25.03.2015

The following amendment have been made in the tender document,

**Amendment - II**

**REVISED TECHNICAL SPECIFICATION**

**Schedule VI**

**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 Single wave length and Single well: 6 seconds or lower
- f) Scan time for Dual wave length and Single well : 8 seconds or lower
- g) Should be capable of reading in Multi level volume content
- h) On board shaking with programmable time

- i) Should have LED light source
- j) Lamp shelf life: At least 1 million reading
- k) Product certification: CE / US FDA / BIS certified
- l) Quality Certification: ISO certificate
- m) Compatible good quality UPS with appropriate KVA – 30 minutes backup
- n) The UPS should also be under warranty of 2 years.

**Programming:**

- i). Provided with compatible external ink jet printer
- ii). Should provide Levy Jennings chart recording & printout facility
- iii). Multi blank programming facility, various types of cut off programme
- iv). Should be capable of printing results for 8 x 12 wells.

## 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 clavable 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 / US FDA / BIS certified
- k) Quality Certification: ISO certificate

## 3. Micro Pipettes\*

- a) Fully auto clavable 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 clavable 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 or 12 Channel	1

- 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 / US FDA / BIS certified

\*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 / Tarson / Gilson)**