



## Notice Inviting e-Tender

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PROCUREMENT OF MEDICAL EQUIPMENT FOR FIVE NEW MEDICAL COLLEGES AND HOSPITALS

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-210/2018

Dated –11.10.2018

The following amendment have been made in the tender document,

### Amendment-I

#### List of Equipments (Items) of Biochemistry:

ITEM NO.	ITEM	No. of equipments (item)
1	Analytical Balance	10
2	Boiling Water baths	10
3	UV Vis Spectrophotometer	5
4	Digital Colorimeters	40
5	Thin Layer Chromatograph	10
6	Horizontal Electrophoresis Unit with power supply (for Paper, agarose)	5
7	Vertical Slab Gel Electrophoresis Unit with Power supply	5

### Amendment-II

#### TECHNICAL SPECIFICATIONS

##### Item No. 1

##### Analytical Balance

1. Range: 0.1mg-200g (at least)
2. Pan size: 125mm (approx)

3. Repeatability: 0.02 mg
4. Casing: Glass casing
5. Digital display
6. Automated Taring system.
7. Internal calibration
8. External calibration with weight from statutory body

## Item No. 2

### Boiling Waterbath

1. Unstirred water bath with electronic temperature control
2. Operating temperature : 50° C to 100° C
3. Drainage of water : by drainage stopcock
4. Capacity : 15 Litres
5. Temperature display : Digital display
6. Temperature control : Microprocessor controlled for over temperature protection
7. Exterior is to made of Cold rolling sheet
8. Inner container is to be made of stainless steel
9. Roof cover or Lid is to be made of stainless steel and should have holes to accommodate large tubes.
10. Safety Standard: CE/ US FDA / BIS

## Item No. 3

### UV vis Spectrophotometer

1. UV Vis spectrophotometer can measure absorbance and transmission and perform screening.
2. Optical system: single beam
3. Light source: xenon flash lamp.
4. Wavelength range: 200-800 nm approx
5. Spectral band width: 4nm
6. Wavelength increment: 1 nm
7. Photometric measurement: 0 to 3 at 260 nm
8. Photometric accuracy:  $\Delta = 0.001$

9. Display system: LED
10. Cuvette: Round and square glass / hard plastic Cuvette
11. Should be supplied with branded PC and necessary software for analysis and system up-gradation
12. 1KV voltage stabiliser
13. Safety Standard: **CE/ US FDA / BIS**

#### Item No. 4

#### **Digital Colorimeter**

1. Should have 8 no of filter covering OD range from 400 to 700 nm.
2. Should have a three digit display calibrated directly in optical density.
3. Detector should be encased in spill proof photocell.
4. Type of detector: high sensitivity silicon photocell.
5. Resolution: 0.01 in OD or Abs.
6. Should provide standard accessories
  - a) 10 cuvettes b) test tube stand
7. Should have facilities for concentration calculation, percentage transmission and Optical density.
8. Should work on 200 – 240 Vac 50 Hz power supply.
9. Safety Standard: **CE/ US FDA / BIS**

#### Item No. 5

#### Thin layer Chromatography

Purpose: To introduce the principles of absorption chromatography using the thin layer technique.

This mechanism is having moveable applicator with inbuilt thickness arrangement between 0 to 2mm (minimum div. 0.25mm) in further consists of the following components -

- a. Spreader (applicator) made of electroplated brass.
- b. Perspex base of 114x23 cm to support glass plates.
- c. Plate rack aluminium, anodised for ten 20 x 10 cm plates.
- d. Chromatography tank with lid. (20 x 20 cm)
- e. Spotting template made of perspex.
- f. TLC plates set of ten 20x10cm
- g. Glass sprayer with rubber bellow, cap. 100ml
- h. Micro-pipette
- i. Subscriber for marking lines made of stainless steel

- j. Instruction manual.
- k. Safety Standard: **CE/ US FDA / BIS**

### Item No. 6

#### Horizontal Electrophoresis Unit with Power supply (for paper, agarose)

1. Complete set – including base gel running unit, safety lid, at least two casting trays and combs.
2. Gel casting Tray: Standard form;
3. Combs size: 1.0mm – 4 wells, 8 wells & 12 wells
4. Buffer chamber capacity: 150 ml approx.
5. Buffer chamber must have safety lid
6. No. of platinum electrodes : positive & negative (each one)
7. Connecting Cord: Red and Black (each one)
8. **Power supply:**
  - Suitable for constant voltage and constant current mode.
  - Output voltage: adjustable from 0 to 500 with an increment of 1 volt
  - Output current: upto 800 mA with an increment of 1mA.
  - Output power: 300W or more (450)
  - Input voltage: 230V  $\pm$  10 VAC, 50Hz
9. Safety Standard: **CE/US FDA/BIS**

### Item No. 7

#### Vertical Slab Gel Electrophoresis Unit with Power supply

1. Dimensions: (l x b x h) cm :15x15x15
2. Gel size (cm): 8x7
3. No. of samples : 7
4. Upper buffer tank capacity (ml) :100ml
5. Lower buffer tank Capacity (ml): 150 ml
6. No. of Combs: 7 well tooth comb
7. Teflon spacers: 0.5 mm Teflon spacers (2 in numbers)
  - 1mm Teflon spacers (2 in numbers)
  - 1.5mm Teflon Spacers (2 in numbers)
8. Connecting cords : Black & red
9. Platinum electrode : red & black : 1 each

10. lid: one

11. Glass plate : Notched & Rectangular : 2 sets

**Power Supply:**

- Suitable for constant voltage and constant current mode.
- Output voltage: adjustable from 0 to 500 with an increment of 1 volt
- Output current: upto 800 mA with an increment of 1mA.
- Output power: 300W or more (450)
- Input voltage: 230V  $\pm$  10 VAC, 50Hz

12. Safety Standard: CE/US FDA/BIS