

# **All India Institute of Medical Sciences (AIIMS), Mangalagiri, AP**

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## **Reagents & Chemicals, Glassware, Equipment, Reagent kits procurement by AIIMS**

### **Mangalagiri (Rule 155 of GFR )**

**F No: AIIMS/MG/Admin/Bid Tenders/06/2018-19/LPC/30**

**Date: 27-12-2018**

Sub: Reagents & Chemicals, Glassware, Equipment, Reagent kits procurement by AIIMS  
Mangalagiri- Reg.

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- This is to bring to your notice that AIIMS Mangalagiri is in a process of procuring OPD Reagents, Chemicals, Equipment, and Reagent kits and for this we invite quotations as per the specifications attached to this document.
- The quotations may be provided at the earliest from the date of opening in the AIIMS Mangalagiri Website i.e. 27/12/2018.
- The document is uploaded in the website for open information to the vendors/manufacturers.
- The quotations should be sent to [lpc@aiimsmangalagiri.edu.in](mailto:lpc@aiimsmangalagiri.edu.in) with copy to [dda@aiimsmangalagiri.edu.in](mailto:dda@aiimsmangalagiri.edu.in)

**Reagents, Chemicals, Equipment, Reagent kits Procurement by AIIMS Mangalagiri**

Important note for supplier:

1. Each item is a separate equipment for comparison of quotes.
2. The total price is an all-inclusive cost.
3. The quotations are to be provided as per enclosed specifications (for Annexure 3). No variation will be acceptable in the supplied equipment. The Final decision lies with the discretion of the Local Purchase Committee, AIIMS Mangalagiri.
4. Minimum onsite warranty of 2 years is required (on equipment).

**Annexure-1 – List of Reagents and Chemicals Required**

<b>S NO</b>	<b>AIIMS Sl. No.</b>	<b>Chemical Name</b>	<b>Pack size</b>	<b>Qty required</b>	<b>Remarks</b>	<b>Unit Price (Rs)</b>	<b>Total Price (Rs)</b>
1	1	4-Amino Antipyrine	25g	1			
2	2	Boric acid	500g	1			
3	3	Bovine Serum Albumin	25g	1			
4	4	Creatinine	25g	2			
5	5	DiacetylMonoxime	100g	1			
6	6	EDTA dipotassium salt	500g	1			
7	7	Esbach Reagent	500ml	1			
8	8	Glycerol	500ml	1			
9	9	Lithium carbonate	250g	2			
10	10	Lithium sulphate	500g	1			
11	11	Magnesium chloride	500g	1			
12	12	Magnesium sulphate	500g	1			
13	13	surgical spirit	500ml	6			
14	14	Methyl cellulose	500g	1			
15	15	Methyl red	25g	1			
16	16	Saponin	100g	1			
17	17	Silica gel/powder for column chrmoatography	500g	1			
18	18	Sodium Azide	100g	1			
19	19	Sodium Dihydrogen Orthophosphate	500g	1			
20	20	Zinc acetate	500g	1			
21	21	8-Hydroxyquinoline	100g	1			
22	22	Sodium Sulphate	500g	1			
23	23	Urea (AR)	500g	3			
24	24	Sodium sulphite	500g	1			
25	25	Uric acid(AR grade)	25g	2			
26	26	Thiosemicarbazide	100g	1			

27	27	Sodium potassium Tartarate	500g	2			
28	28	Thiourea	500g	1			
29	29	Potassium hydrogen phosphate	500g	1 as per pack			
30	30	Meta Phosphoric Acid	500g	1			
31	31	Acetic anhydride	500g	1 as per pack			
32	32	Activated charcoal	250g	1			
33	33	Amino Naphtholsulphonic acid	25g	1			
34	34	BCG dye	500g	2			
35	35	Blue Litmus Paper	1 packet contains 100 leaves	05 pkts			
36	36	Calcium carbonate anhydrous	500g	1			
37	37	Drabkin's reagent	500 ml	1			
38	38	Glycine (AR grade)	100g	1			
39	39	Horse Gram Powder	100g	1			
40	40	Anhydrous Ferric Chloride	500g	1			
41	41	Peanut oil	500ml	1			
42	42	Pepsin	25g	1			
43	43	Phenyl mercuric acetate	100g	1			
44	44	Sodium metabisulphite	500g	1			
45	45	Sodium molybdate	100g	1			
46	46	Sodium nitride	500g	1			
47	47	Sodium thiosulphate	500g	1			
48	48	Taurocholic acid	250 ml	1			
49	49	Trisodium citrate	500 mg	1			
50	61	Sodium Pyrophosphate	Smallest pack size	1			
51	62	Lactic acid	500 ml	1			
52	63	Barium sulphate	500g	2			
53	64	Ammonium Hydroxide	500g	3			

54	65	O- toulidine	500 ml	2			
55	66	Succinic acid	500g	1			
56	67	Brij 35	100g	2			
57	68	Ferrous chloride FeCl <sub>2</sub>	100g	1			
58	69	Biuret reagent	500 ml	4			

**Annexure-2 – List of Glassware Required**

S.no	Name of the items	Quantity required (Total)	Remarks	Unit Price (Rs)	Total Price (Rs)
1.	Steel tray large	03 nos			
2.	Steel tray medium	03nos			
3.	Pipettes Graduated 0.2 ml	50 nos			
4.	Pipettes Graduated 2 ml blow out pipette	50nos			
5.	Pipettes Graduated 5 ml blow out pipette	50nos			
6.	Pipettes Graduated 1ml	50nos			
7.	Pipettes Graduated 10 ml	50nos			
8.	Test Tube 15 x 150 mm with rim	300 nos			
9.	Test Tube 15x 100 mm with rim	100 nos			
10.	Test tube holder of iron/steel with adjustable slider for holding 15 x 100 mm test tube	50nos			
13.	Spatula	50nos			
14.	Glass urinometers	80 nos.			
15	Pipette pump 2ml	10			
16	Pipette pump 10 ml	10			
16	Filter paper rolls large	5			
17	Conical flasks 1000ml	5			
18	Conical flasks 500ml	5			
19	Conical flasks 250 ml	5			
20	Measuring glass cylinders 500ml	5			

**Annexure-3 – List of equipment required**

<b>Sl.No</b>	<b>Equipment</b>	<b>Quantity required</b>	<b>Unit</b>	<b>Remarks</b>	<b>Unit Price (Rs)</b>	<b>Total Price (RS)</b>
<b>1</b>	Calorimeter	05	No.			
<b>2</b>	Semi auto analyser	01	No.			
<b>3</b>	Digital Balance	01	No.			
<b>4</b>	Semi-Microbalance	01	No.			
<b>5</b>	Electrophoresis with power pack	01	No.			
<b>6</b>	Centrifuge	02	No.			

**Annexure 4 - List of Reagent Kits Required for Semi Auto Analyser**

<b>S No:</b>	<b>AIIMS S No.</b>	<b>Reagent Kit Name</b>	<b>Pack size (Volume)</b>	<b>Qty required</b>	<b>Remarks</b>	<b>Unit Price (Rs)</b>	<b>Total Price (Rs)</b>
1	50	Bilirubin kit for semi auto analyser (200 ml)	200 ml	2			
2	51	Glucose kit for semi auto analyser (Glucose oxidase – peroxidase method)	500 ml	2			
3	52	SGOT kit for semi auto analyser (200 ml)	200 ml	2			
4	53	SGPT kit for semi auto analyser (200 ml)	200 ml	2			
5	54	ALP kit for semi auto analyser (200 ml)	200ml	2			
6	55	Total Cholesterol kit for semi auto analyser (200 ml)	200 ml	2			
7	56	Amylase kit for semi auto analyser (200 ml)	200ml	2			
8	57	LDH kit for semi auto analyser (200 ml)	200ml	2			
9	58	ICT card for CK-MB	15 cards	1 pack			
10	59	ICT card for TROPONIN T	15 cards	1 pack			
11	60	calcium kit for semi auto analyser (200 ml)	200ml	2			

## **Specifications for Annexure - 3**

### **1. Colorimeter (05 in numbers)**

#### **Specifications:**

1. Digital analogue photo colorimeter range 400 -700 nm
2. 8 high optical glass filter ( 400, 490, 520 ,540 ,590 ,620, 650, 700) nm or better
3. Cuvette volume 1 ml
4. Minimum volume: 1ml
5. Resolution:0.1Detector: high sensitive photo iodide
6. Tungsten / LED white light source
7. Direct OD measurement 0-1.99
8. % T 0- 100 %
9. Highly sensitive photo cell
10. Power supply 220- 240 V AC
11. Light weight up to 5 kg
12. Stand accessory 1 spare lamp plus five cuvette
13. All the accessories needed for the instrument to be functional including power chord etc should be supplied alongwith
14. The system should be US FDA or European CE approved.
15. Warranty period of 2 years on the instrument starting from the date of installation
16. Comprehensive maintenance contract rate for the next 5 years after the expiry of warranty period should be quoted herewith

## 2. Semi auto analyser (01 in number)

### Specifications:

- 1) More than 70 items including routine and STAT parameters.
- 2) Reagent system open .
- 3) Two reading modes: Cuvette & Flow cell .
- 4) Intelligent software, 1200testing results in memory can be printed .
- 5) Built-in thermo printer.
- 6) Light source: 12v/20w Halogen Lamp, life Span>2000 hours .
- 7) Standard filter: 340nm, 405nm, 505nm, 546nm, 578nm, 620nm, 670nm or better and minimum one free position.
- 8) Band width: 8nm
- 9) Linearity range: 0.000-3.000Abs
- 10) Aspiration volume: 200-1000ul
- 11) Flow cell: 30ul, Optical diameter: 1cm
- 12) Temperature control: 25,30,37 $\hat{A}$  $\pm$ 0.1 and be controlled by peltier
- 13) Measuring Mode: Kinetics, End point, Fixed time, Differential, Absorbance,
- 14) Multi-standard , Double wavelength
- 15) Display: LCD
- 16) QC: Statistically analyzed of QC DATA; QC chart can be displayed and memorized
- 17) Standard RS-232 interface
- 18) RH: 85%
- 19) Power supply: AC220V $\pm$ 10%, 50Hz $\pm$ 2%
- 20) Cuvettes to be provided as accessories (minimum 8 in no.)
- 21) The system should be US FDA or CE (European) approved
- 22) Warranty period of 2 years on the instrument starting from the date of installation
- 23) Comprehensive maintenance contract rate for the next 5 years after the expiry of warranty period should be quoted herewith

### **3. Digital balance (01 in number)**

#### **Specifications:**

1. Capacity: approximately 2000g
2. Minimum display: 0.01 g
3. Linearity:  $\pm 0.01$  g
4. Taring range- 0 to capacity
5. Ambient temperature- 5 to 42 degrees Celsius
6. Unit conversions- all the common units and the conversions to be present
7. Data Output: RS 232 interface
8. Pan size: approximately 170 x 130 mm
9. Dimensions- approximately (150- 200 x 200-230 x 50- 60)mm
10. Power source : 6 AA batteries or better ( to be provided) and AC power supply ( adapter provided)
11. The unit is supplied with main chord and Plug and other accessories needed for installation including battery holder , protective keypad cover, carrying case
12. Warranty period – 2 years from the date of installation
13. Certification-CE mark : yes

#### 4. Semi micro Balance (01 in number)

##### Specifications:

1. An electronic micro balance with maximum capacity of around 100 g and Readability of 0.01 mg with pan sitting on the top
2. Repeatability  $\pm 0.05$  milligrams, can measure from 0.01 mg or lower to 220 g
3. Linearity (mg)  $\pm 0.1$  milligrams
4. Response Time (avg) 3 seconds
5. Minimum weight (acc. to 1%, k=2) should be  $\leq 3$  mg
6. Tare Range FULL to Capacity
7. Selectable Weight Units g, mg
8. Selectable Application Programs- Mass unit conversion by toggling, tare memory
9. Display- LCD with backlit/HCD
10. Ambient Operating Temperature-  $0^{\circ}\text{C}$  to  $40^{\circ}\text{C}$
11. Sensitivity offset 0.3 mg
12. Pan Size -weighing pan of atleast  $\varnothing 80$  mm
13. With RS-232 Interface
14. Automatic Time and Temperature controlled Internal Calibration option
15. International Regulatory Certification: CE certification
16. Safety Features: Protection against dust and water, Over-load protection, Chemical-resistant body, level locking is preferred
17. Power supply upto 230V /50 Hz, Power: AC power supply with the adapter provided
18. The system should be US FDA or European CE approved.
19. Warranty period of 2 years on the instrument starting from the date of installation
20. Comprehensive maintenance contract rate for the next 5 years after the expiry of warranty period should be quoted herewith

## **5. Centrifuge (02 in number)**

### **Specifications:**

1. Lab centrifuge with lid, 8 buckets
2. Stepless speed regulator
3. Safety Lid interlock to prevent cover opening during centrifugation
4. Dynamic brake for quick deceleration
5. Imbalance detector with cutoff
6. Should have digital speed indicator
7. Should have digital count down timer 0 – 60 minutes
8. Max speed of 4400 rpm
9. Max RCF 'g' of 2350g
10. Capacity of 200 ml max
11. Electrical supply of 220-240 Volts, single phase
12. Microprocessor based with brushless induction motor with frequency drive
13. Should have ability to preset time and speed
14. With tube carriers
15. Warranty period – 2 years from the date of installation
16. Certification-CE /FDA mark : yes
17. Prompt after sales service should be available

## 6. Electrophoresis with power pack (01 in number)

### Specifications:

1. Mini units: Mini Protein Electrophoresis system (Dual)
2. Complete Set - Including base gel running unit, safety lid, at least two casting trays and combs. Gel Casting Tray: Standard form;
3. Combs sizes: 1.0 mm -4 wells, 8 wells &12 wells;
4. 2.0 mm - 4 wells, 8 wells & 12 wells
5. Gel Size: 8x7cm
6. Spacers of 0.75 & 1.0mm thickness fused with glass plates, sample loading guides.
7. Two gel running capacity
8. Ridged combs 10&15 well
9. Optional preparative combs
10. Gel casting stand, no tapes or grease.
11. Power Supply:
  - Power Supply suitable for vertical (mini and standard) and horizontal gel electrophoresis, Semi-dry and mini tank blotting.
  - Constant voltage and constant current modes
  - Output Voltage: Adjustable from 0/5/10V to 500V/600V with an increment of 1 V or less
  - Output Current: up to 800/1000 mA with increment of 1 mA
  - Output power: 300W or more
  - Terminals/ Sockets: 4 Pairs/4
  - Safety: All necessary safety provisions like Over load, No load, Sudden change in load, power failure indication, Over Temperature and safe plugs and sockets
  - Input Voltage: 230V  $\pm$ 10VAC, 50Hz
12. Other requirements:
  - Certifications – CE/FDA
  - Comprehensive Warranty period – 2 years from the date of installation and 5 years Comprehensive maintenance contract after the warranty period
  - Prompt after sales service should be available
  - Additional features/accessories, if any that can potentially increase the productivity of this Instrument should be quoted as optional items.

## Formats for Quotations

### Format for the quotation of Reagents/Chemicals:

Column no 1	Column no 2	Column no 3	Column no 4	Column no 5	Column no 6	Column no 7	Column no 8	Column no 9	Column no 10
Sl. No. of the item	Name/description of the item	Make	Quantity (Pack size)	Price per unit	GST %	GST amount	Total amount/item (inclusive of GST)	Total Quantity quoted	Total purchase price for the quoted quantity

### Format for the quotation of Glasswares:

Column no 1	Column no 2	Column no 3	Column no 4	Column no 5	Column no 6	Column no 7	Column no 8	Column no 9	Column no 10
Sl. No. of the item	Name/description of the item	Make	Quantity (01 number)	Price per unit	GST %	GST amount	Total amount/item (inclusive of GST)	Total Quantity quoted	Total purchase price for the quoted quantity

### Format for quotation of Equipments:

Column no 1	Column no 2	Column no 3	Column no 4	Column no 5	Column no 6	Column no 7	Column no 8	Column no 9	Column no 10
Sl. No. of the item	Name/description of the item	Make	Quantity (01 number)	Price per unit	GST %	GST amount	Total amount/item (inclusive of GST)	Total Quantity quoted	Total purchase price for the quoted quantity

### Format for quotation of Reagent kits:

Column no 1	Column no 2	Column no 3	Column no 4	Column no 5	Column no 6	Column no 7	Column no 8	Column no 9	Column no 10
Sl. No. of the item	Name/description of the item	Make	Quantity (01 number)	Price per unit	GST %	GST amount	Total amount/item (inclusive of GST)	Total Quantity quoted	Total purchase price for the quoted quantity

**Please note:**

- 1) Sl. Number of the item (Column no. 1) must be kept same as given in the quotation
- 2) All items to be quoted
- 3) **The total price at the end of the quotation for the respective columns should be calculated and sent accordingly.**
- 4) **The documents should be filled as per the hard copy submitted in AIIMS, Mangalagiri. No change in the submitted prices for the respective items in hard copy, is allowed.**
- 5) **Any new item quoted (if not asked earlier) can be quoted accordingly.**
- 6) The specifications of the equipments have already been provided.