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తెలంగాణప్రభుత్వం O/o వైద్య విద్య శాఖ, వరంగల్

Rc. No. CS-1/1933/2019,

6ండరు ప్రకటన

න්ය: 09-09-2019

నెరల్ రెసెర్స్ అండ్ డయాగ్నాటిక్ లేటారేటరోస్ (VRDL) శాఖ, కాకతీయ మెడికర్ కాలేజ్, వరంగలేకు దిగువ తెరిసిన ఎక్బిప్ మెంట్లు అనగా PCR కొరకు (7) ఎటమ్లు మరియు సెరాంజ్ కొరకు (8) ఖటమ్లు (జాటితా జాళేయుడింది) కొనుగోలు రేయులకు అమోదిత డీలర్ల నుండి సీల్డ్ టెండర్లు కోరబకుతున్నవి. పాంకేతిక స్పష్టీకరణల ఫారాంతో తెలియజేయుదతాయి. టెండరు దరఖాస్తు ధర: ట్రిస్పిపాల్, KMC వరంగల్ మేసన డిమాండ్ డ్రాఫ్ట్ డ్యారా రూ. 2,000.00 (వాపసు రేయుడదు). టెండరు దరఖాస్తు అమ్మకం: 18-08-2019 నుండి 25-08-2019న జిగ్గ 11.00 గం. నుండి సాగ్గ 4.00 గం. మకు టెండరు స్వీకరణకు చెపెరి తేడి: 26-08-2019న పాగ్గ 4.00 గం. వరకు, టెంచరు తెరచుట: టైన్బిపాల్ ధాంబర్, KMC, WGLలో 27-08-2019న జిగ్గ 11.00 గం మ. బయానా మొత్తం: దిగువ సంతకందారు పేరున డిమాండ్ డ్రాఫ్ట్ డ్యారా రూ. 10,000/- (వాపసు రేయబడదు). <

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INDICATIVE LIST OF EQUIPMENT FOR MEDICAL COLLEGE LEVEL VIRAL RESEARCH & DIAGNOSTIC LABORATORIES

N1-	Name of the Equipment	Companies		
No.				
rener	The state of the s	ESCO Global, Haier BioMedical, Thermo Fisher Scientific		
	Centrifuge-Refrigerated high	Hettich India Pvt. Ltd, Eppendorf AG, Sartorius AG, REMI LAB		
	speed	Modis Enterprise Pvt. Ltd., Enclave, Accumax India		
	Autoclave	Nave Thermo Fisher Scientific		
	Laboratory Incubator	Desda Worldwide Inc. Enson India, Casio India		
	Label Printer	Tarsons Products Pvt. Ltd., Axygen Scientific, Sartorius AG,		
)	Miscellaneous equipments	c Tackeologies India Pvt. Ltd		
-	ESCO GLOBAL Haier BioMedical, Thermo Fisher Scien			
7	pH meter	Thermo Orion, Sartorius AG, Lab India Pvt. Ltd.		
9	Desktop computer with printer (dedicated VRDL Data entry, inventory, e-mail, etc)	Dell India, HP India, LG India		
10	Multifunctional copier/printer/ scanner (for office work)			
11	Refrigerator (sample receiving, temporary storage)			
12	Microwave Oven (For agarose gels)	e Samsung India, LG India, IFB		
PCR	:	Contide Hajor		
1.	Laminar flow vertical 2 feet	ESCO, Thermo Scientific, Haier Applied Biosystems- Thermo Fisher Scientific, Eppendorf, Bio-		
2.	Thermocycler	Rad Laboratories, Inc. Applied Biosystems- Thermo Fisher Scientific, Bio-Rad Laboratories, Inc., Syngene, Axygen Scientific		
3.	Gel electrophoresis & documentation unit			
	Refrigerated Microfuge	Try at ab India Per Ltd Ennendorf AG, NuWing,		
5.	RT-PCR Machine	Applied Biosystems- Thermo Fisher Scientific, Eppendori Ac		
		Bio-Rad Laboratories, Inc.		
6.	Micropipettes (2x0.5-10ul, 3x10- 200ul, 2x50-1000, 1x5-100ul) Many micropipettes are required for PCR. These are strongly recommended instead of a electronic pipettes.	Y Y 4		
7.	Miscellaneous equipment (eg Vortex mixer, coolers & quickspin) Amount reduced b 2.0 lakh adjusted in serolog section)	Corning Technologies India Pvt. Ltd.,		
Ser	rology:	Grant, Corning Technologies India Pvt. Ltd., REMI LA		
1.	Water Bath	WORLD		
2.	Freezer -20	Thermo Fisher Scientific, Crispcold, Blue Star		
3.	Freezer -70	Thermo Fisher Scientific, Celfrost, Labocon Inc		
4.	ELISA Plate Washer	Lisa Wash(Tulip Diagnostics Pvt. Ltd.), Biotek Instruments (

EQUIPMENTS LISTED UNDER GENERAL & CULTURE FACILITIES:

1) Biological safety cabinet:

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

NSF 49/EN1249 or Equivalent standard Certification

Approximately 4 Feet length X 2 feet Depth; Bio safety cabinets Class II, Type Design

A2; 304 stainless steel interior; Epoxy-coated steel exterior; Removable,

seamless, dished work surface with lift out knobs Door-Fully closing, clear 1/4"

tempered safety glass sash Counter balanced with base stand,

Class 100, Supply and exhaust through HEPA filters. Inflow velocity of 105 fpm Circulation

(0.5 m/sec), Down flow velocity of 55 fpm (0.3 m/sec), 70 % air recirculation

UV and sufficient illumination for work space. Light

For monitoring the condition of all HEPA filters as well as work space. Gauges

Installation & onsite validation; Calibration certificates; Manuals: Operation, Services Required maintenance & part list with detailed specifications; Operational & maintenance

Training.

Should include 210-240V/50 Hz Power Supply

Bio safety cabinets of Class II, Type A2 is recommended for all Viral Research Recommendation

Diagnostic labs (VRDL). Type B2 biosafety cabinets are recommended only for

Biosafety Level 3 work

Refrigerated high speed centrifuge

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

CE or UL certified or conformity Certification

European -4 to +40°C Temperature range : 14000 RPM or more : Speed

Digital for temperature for air and chamber, time and RPM/RCF, Microprocessor : Display

controlled

Brushless drive Drive system

Programs-90-99 and with program recall facility . Programmable

Fixed angle rotor: 24x1.5-2.0ml : Rotors

Fixed angle rotor: 24X1.5 ml tubes, 250 ml, Swing out Rotor and adopters for: **Optional Rotors** :

5-10 ml tubes, 15ml, 50ml and 250 ml tubes, micro plate.

210-240V/50-60 Hz or Suitable power supply Power Supply

5 years from till date of installation. Warranty 5 years from date of expiry of warranty. AMC

HEPA filter, (99.99% efficient on particles 0.3 micron)/ULPA filter (efficiency of Filters

>99.999% at 0.1 to 0.3 micron sizes) provided with pre-filter)

UV and sufficient illumination for work space Light

For monitoring the condition of all HEPA filters as well as work space. Gauges

Should include 210-240V/50-60 Hz Power Supply

8) Digital pH Meter

Technical Specifications: Must be of reputed brand, from manufacturer/Authorized dealer having installation in reputed institutes/firms.

Compact, Table top ŝ Design

: Electrodes

To measure pH. Temperature, mV &relative mV : Capability

Range 0 to 16.00, pH, Accuracy, + 0.01 Resolution 0.002 : pH

Approximately 0 to 120o C, Accuracy + 0.5o C Temperature

+ 1999, Resolution 0.1

MV/Rel.mV LCD for pH and temperature readings simultaneously : Unit able to recognize auto buffer along with custom buffer Display

Buffer options

Automatic as well as manual Calibration

Automatic Temperature Compensation

Should include 210-240V/50-60 Hz Power Supply

9) All in one Desktop Computer with Printer

Technical specifications: Must be of a reputed brand, from manufacturer/authorized dealers having installation in reputed institutes/ firms, preferably in Maharashtra and service centers located in India. Necessary evidence to be provided.

Hardware:

Windows 8 (64-bit) 1. Operating System :

3rd Generation Intel Core i7 - (2.4 GHz / 6 MB L2 Cache) or better 2. Processor :

Intel Chipset (or) ASUS 3. Motherboard : 6 GB DDR-3 or more 4. RAM :

500 GB SATA (or more), 7200 RPM (or) 500 GB SSD : 5. Hard-Drive

NVIDIA GeForce with Dedicated 2GB Video Memory with HDMI In & Graphics Card :

Out

21" Full HD 0.28 pitch Anti-Glare with optional 10 point touch 7. Monitor :

Integrated DVD RW 52X drive 8. Optical Drive

USB 3.0 ports, USB 2.0 ports, Card Reader, Integrated Speakers, Web-9. Accessories

Camera

Integrated Finger Print Reader 10. Security

10/100/1000M LAN, 802.11 b/g/n Wi-Fi with optional Bluetooth 11. Network

Wireless Keyboard and Mouse 12. I/O Devices

Software:

System Recovery manager

System Security and Protection

DVD Burner/Label Creator

Microsoft Office 2008

5. Chrome Browser

Technical:

EN12469 OR equivalent. Certification

Vertical laminar flow cabinet; Approximately 4 Feet length X 2 feet depth, 304SS Design :

interior, epoxy/powder coated exterior Door fully closing with hinged sash.

Support stand, solid one piece dished work surfaces

Down flow velocity of 40-70 fpm, ISO Class 5 or higher air : Circulation

HEPA filter, (99.99% efficient on particles 0.3 micron)/ULPA filter (efficiency of : Filters

>99.999% at 0.1 to 0.3 micron sizes) provided with pre-filter)

UV and sufficient illumination for work space :

Light For monitoring the condition of all HEPA filters as well as work space. : Gauges

Should include 210-240V/50-60 Hz Power Supply :

2) Thermal Cycler

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

96 well, with 6 separate peltier blocks to provide independent temperature zones : Design

to run gradient PCR with hot bonnet.

0.2ml, 0.5ml PCR tubes or microplates; to accommodate PCR volumes ranging : Capability

from 10- 100ul.

Standard and fast run :

Range +4-100°C, Accuracy +/-0.25 from 35-99°C, Uniformity <0.5°C (20 sec Run Mode : Temperature

after reaching 95°C)

Maximum should be 5°c / sec and adjustable between 3 -5°c /sec : Ramp rate

Around 800 typical programs; with USB flash drive expansion Program

Should include 210-240V/50-60 Hz Power Supply

3.a) Horizontal Gel Electrophoresis system

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

- 1. Submerged gel electrophoresis apparatus with clear plastic construction for easy sample visualization
- Tray should be UV transparent, length 12-15cm and width 12-15cm
- Combs: 10-15 wells and 25-30 well. All combs of 1mm thickness.
- 4. The unit should bear minimum 3 years comprehensive and 2 years non-comprehensive warranty.

3.b) Gel Documentation System

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

- 10. Facility to calibrate new dye within the wavelength range without addition of new filters
- 11. Passive reference dye ROX or any other calibrated dye and should be optional
- 12. Option for melt curve analysis
- 13. Temperature range 4°C to 100°C
- 14. Sensitivity: Detection of 1 copy of template
- Software applications: Comparative Ct, Standard Curve, Relative Standard Curve, Allelic Discrimination / SNP Genotyping, Plus/Minus, dissociation / melt curve
- 16. 220 V /50Hz. All accessories
- 17. CE mark or equivalent

6) Electronic Multichannel Pipette

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only.

Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

3 pipettes with volumes: 0.5 to 10 µl, 5 to 10µl & 50 to 1200µl

Short Description	Electronic multichann	el pipette with Spring loa		d nose cone and Secondary adjustment	
1.	Channel format	8-channel	8-channel	8-channel	
2.	Adjustable Volume	0.5-10 μL	5-100 µL	50-1200 μL	
3.	Imprecision/Volume (≤%/µL)	±3.0%/±0.03µL/1µL;;	±3.0%/±0.03µL/1µL;	±0.9%/±1.08µL/120µL;;	
4,	Inaccuracy/Volu me (±%/μL)	±3.0%/±0.03µL/1µL;;	±2.0%/±0.2μL/10μL;;	±6.0%/±7.2µL/120µL; ±;	
5.	Pipette type	Electronic air cushion	Electronic air cushion	Electronic air cushion	
6.	Volume selection	Adjustable	Adjustable	Adjustable	
7.	Volume display	4 digits	4 digits	4 digits	

EQUIPMENTS LISTED UNDER SEROLOGY LAB FACILITIES:

1) Water Bath (For Medical College Labs)

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

Water Bath made of stainless steel, from manufacturer/authorized dealers having installation in reputed institutes/ firms.

Capacity

Anti-corrosive 4 chambers each with capacity of 3-4 lit.

Temperature

Ambient to 100 C, with Digital temperature display and 0.1°C readability,

microprocessor controlled

Power Supply

210-240V/50-60 Hz

Vacuum and fluid delivery: In built with Positive displacement syringe pump, drive Systems

with adjustable flow rates

Program : Memory for around 50 programs including dispensing Volume (50 to

300ul/well) and multispeed microplate shaking program

Bottles : Wash, rinse and waste (volume 4-6 liter)

Safety devices : Acrosol cover, removable Plate carrier, spill over protection and overflow

protection safety system

Display : LCD Display with Membrane Keypad

Power Supply : 210-240V/50-60 Hz

5) ELISA Reader

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

Capability : 24, 48 or 96 well micro plates Spectral Range : 400-750nm, Accuracy +-1nm

Absorbance : 0-4 O.D. Range Accuracy : Up to 0.001 O.D.

Accuracy : Up to 0.001 O.D.

Provision : Curve fittings formulas transformations & control assay validation, with

compatible interface with PC & external printer.

Accessories : Spare Lamps 2 Nos. Power Supply : 210-240V/50-60 Hz

6.a) Adjustable Volume Single Channel Pipettes

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical:

ISO 8655 CERTIFIED, fully Autoclavable, single channel pipettes of variable volume compatible with

universal tips.	100000000000000000000000000000000000000	Accuracy	Precision
Range	Increment	±12.0 to 2.5%	10.0 to 2.0%
0.2 to 2µL	0.01µL		2.0 to 0.5%
1 to 10µL	0.1µL	±2.5 to 1.0%	
The second secon	0.1µL	±3.0 to 1.0%	2.5 to 0.4%
2 to 20μL		±1.8 to 0.6%	0.7 to 0.2%
20 to 200μL	1µL	±1.0 to 0.6%	0.6 to 0.2%
100 to 1000µL	5µL	21.0 to 0.0.0	

6.b) Adjustable Volume Digital Multi Channel Pipettes

General: Tender is invited from reputed original manufacture or their authorized agents/dealers only. Information regarding installation in India and satisfactory service and maintenance may be forwarded with all the details for verification.

Technical: