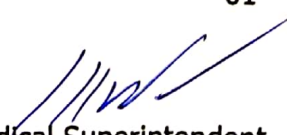


**QUOTATION FOR THE PURCHASE OF COVID-19 ITEMS FOR
ICU/HDU/ISOLATION WARD.**

1. It is intimated that this hospital needs following Items due to Punjab Govt Declares Health Emergency AMID Coronavirus Threat. Firms are invited to quote your rate as per following terms & Conditions:-
2. Quotation should be under sealed cover, In the name of the Medical Superintendent Lahore General Hospital, Lahore.
3. Sealed Technical and financial bids must be provided separately and financial bids of qualified firms will be opened after technical evaluation.
4. Rate should be valid for 45 days.
5. Rates submitted by firms will be considered inclusive of all prevailing taxes.
6. Mandatory to include stock position of items for immediate delivery.
7. Delivery will be on F.O.R. Basis in proper packing within 7 days after Issuing of purchase order.
8. No quotation will be entertained after due date.
9. Sampled should be provided as and when demanded.
10. If any discrepancy is found in rates, firm will be responsible to make good the loss at any stage.
11. Full specification of quoted items such as make brand capacity unit packing etc. should be included in technical bid. (Specification attached)
12. The undersigned has right to accept, reject or cancel quotation at any time without assigning any reason.
13. Quotation should reach in this office by 11:00 AM on 11th June 2020 through daak / courier service/ by Hand.
14. Firms are directed to submit the rate per unit.
15. The authority reversed the right to increased or decreased the quantity.
16. The quoted product must be from USA/EU/UK/Japan, or of imported origin as specified.
17. The Company will provided Sole Authorization Certificate of Foreign Manufacturer.
18. The firm will provided 05 year warranty with parts through warranty certificate in technical bid.

<u>NAME OF ITEMS</u>	<u>Qty</u>
1. Real Time PCR Machine (USA/EU/UK/Japan)	01
2. Central Monitoring Station with 10 Monitors for Isolation (USA/EU/UK/Japan)	01
3. Pulse Oximeter handheld type with rechargeable battery (USA/EU/UK/Japan)	10
4. Central Gas Supply with Oxygen Outlet and copper piping (Imported)	37
5. Mobile X-Ray Machine (USA/EU/UK/Japan)	01


Medical Superintendent
Lahore General Hospital,
Lahore.

PVMS OF PATHOLOGY AND BLOOD BANK

Clinical Specialty	Microbiology
Generic Name	REAL TIME PCR MACHINE
Clinical Purpose	The thermal cycler (also known as a thermocycler, PCR machine or DNA amplifier) is a laboratory apparatus most commonly used to amplify segments of DNA via the polymerase chain reaction (PCR)

TECHNICAL SPECIFICATIONS

Detailed Requirement:

Automated Diagnostic PCR System
 Both Qualitative and Quantitative Test assay
 Simultaneous amplification and detection without operator intervention
 Active heating /cooling device of the thermo block Peltier elements
 Excitation source LED
 Detector CCD matrix camera
 Number of channels of measuring fluorescence 4
 Excitation /detection wavelengths, nm 470/520, 530/570, 590/630, 630/670
 Multipurpose flexibility and high sensitivity
 High sensitivity, optimal signal/noise ratio and a low inter channel cross talk ensured by the unique design of the optical track including a separate light source for each channel and a matrix CCD camera.
 Board dynamic range of detection achieved by employing multiple exposure method, which takes the optimization of signal registration conditions to a whole new level, greatly simplifying or even eliminating the need for photometric settings.
 Real-time quantification, melting curve analysis, single nucleotide polymorphisms (SNPs) genotyping biocenosis and gene expression analysis among key applications.
 Light emitting diodes (LED) as a light source that, unlike halogen lamps, does not deteriorate over the life time of about 100,000 hours and therefore does not require maintenance or constant monitoring.
 Any batch of data can be viewed and analyzed by the user using computer while another amplification program is being executed.
 The device is an open system and is not limited for use with specific reagents or plastic.
 Can be easily integrated in any laboratory information system (LIS) as the device can save all data in standard graphic or test formats ready to be loaded into databases.
 Power Sources 220V, 50HZ AC

User Adjustable Settings:

Thermal block format test tubes for 0.2 ml (12x8), microtiter plates, in 96 or 384 well formats
 Type of test tube 0.2-ml PCR tubes (separate, in strips of 8x12 or PCR micro plates)
 Sample Size: 15-100 µl
 Temperature range of the thermo block 4 – 100dg C
 Temperature setting increment 0.1 dg C
 Precision of temperature maintenance 0.3 dg C
 Heating ramping rate, 2.5 – 3.5 dg Co /sec.

Cooling ramping rate, 1.4 – 2.2 dg C

Displayed Parameters:

Digital display for the results

Accessories:

- One Latest Version Branded Computer with 19" LCD with the system
- One other computer for reporting purpose i7 Latest Version Branded with 19" LCD
- Printer Laser 2000 series HP or compatible
- ~~Two~~ ^{ONE} Centrifuge machine up to 14000 rpm with Digital Display made for 24 wells of 1.5 ml tubes in the single circle
- One Dry Heat Block with 48 wells for 1.5 ml Tube
- One Vortex Mixer
- Imported Compatible Sine wave UPS for back up of up to 3 hours (Emerson, Liebert, Chloride, MGE, APC or Equivalent)
- Firm must quote the regents to make the system functional
- Operating Manual with a Soft Copy
- Service Manual with a Soft Copy

Contract:

APPROVED PVMS

Clinical Specialty	Cardiology
Generic Name	Central Monitoring System
Clinical Purpose	Central Monitoring System make it possible to see the patient's data on the central/main monitor, wherever the patient may be.

TECHNICAL SPECIFICATIONS

Multi-channel central station for ~~8~~/16/~~24~~ bedside monitors. (Procuring agency will specify the exact requirement)

Operating features and characteristics:

Colored monitor

Resolution minimum 1024 x 1024

Laser printer

For connection to: Bedside monitors with 19" TFT central station monitor.

Parameters :

Selectable display of all parameters of bedside monitors

As selected.

Alarms :

All parameters alarms on central station monitor with bed no.

Identification.

All alarms of each bedside monitors selectable from central workstation.

Full Disclosure :

Other Features:

Ac 220v / 50Hz.

Keyboard and mouse

Trend data: graphical and tabular

Arrhythmia analysis feature.

Operating Requirements:

Built-in battery and charger for at least 2 hours on ac power at full parameter or imported full sine wave ups.

Accessories:

Optional (If any): *MANDATORY TO QUOTE*

~~Qty of Reusable sensors~~

HIS & RIS Connectivity

High definition Slave monitor screen size ~~55~~" or larger

APPROVED PVMS

Medical Specialty	Cardiology
Generic Name	Cardiac Monitor
Clinical Purpose	The phrase cardiac monitoring generally refers to continuous monitoring of the heart activity, generally by electrocardiography, with assessment of the patient's condition relative to their cardiac rhythm.

TECHNICAL SPECIFICATIONS

For Adults & Peads

For monitoring patients vital signs.

Operating Features and Characteristics:

Non fade TFT,LCD color display

Electro-surgical interference suppression/protection

Defibrillator protection

Freeze and cascade facility.

Waveform trace speed: 25 & 50 mm/sec.

Screen size: min. 15" TFT, LCD color display.

Parameters:

ECG :

Numeric: heart rate.

Waveform : real time and freeze ECG trace

Minimum 6 waveforms

NON-INVASIVE BLOOD PRESSURE (NIBP):

Method: oscillometric principle

Numeric: systolic, diastolic and mean pressure

Selectable auto inflate interval settings

Rising cuff/continuous pressure display.

Reusable cuff for adult & paed

TEMPERATURE:

Numeric: temperature selectable in °C/°F.

PULSE OXIMETRY:

Numeric: 0-100% oxygen saturation measuring range.

Waveform-plethysmograph pulse.

Reusable sensor electrode.

ARRHYTHMIA ANALYSIS:

Arrhythmia analysis and ST analysis.

RESPIRATION:

Breath rate display and settable apnea alarms.

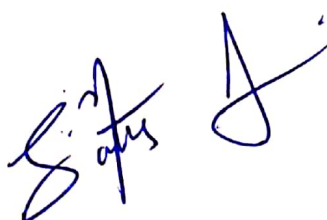
Sweep speed; 6.25, 12.5 mm/sec.

Numeric: temperature selectable in °C/°F.

Ac 220v/50HZ

Built-in rechargeable battery for at least 1.5-2 hour.

Accessories:



APPROVED PVMS

The system must be complete with all sensors, probes, cables or any other accessories required for measuring all the above selected parameters.

Optional (If any): (MANDATORY TO QUOTE)




~~Qty of Reusable sensors~~

Capnography

IBP two channels

Printer 2 channels

Mounting stand ~~preferably imported or~~ high quality (S.S 304L) Local with lockable draws (procuring agency to choose)



Clinical Specialty	Anesthesia and Ventilation
Generic Name	Pulse Oximeter
Clinical Purpose	A pulse oximeter is a medical device that indirectly monitors the oxygen saturation of a patient's blood (as opposed to measuring oxygen saturation directly through a blood sample) and changes in blood volume in the skin, producing a photoplethysmogram.
TECHNICAL SPECIFICATIONS	
Non-invasive measurement of oxygen saturation and pulse rate with LCD screen. Display of oxygen saturation and pulse rate. Oxygen saturation measurement range from 0 -100%. Pulse strength perfusion indication Capability of Plethysmography. Pulse rate measurement from 20-250 bpm. Visual and audible indication of alarms. High and low alarms settings. Power of 220 V/ 50 Hz	
ACCESSORIES:	
Complete with standard accessories, including reusable type Adult, Pediatric & Neonatal sensors	
OPTIONAL: <i>MANDATORY TO QUOTE</i>	
Qty of Reusable sensors — ①	

Note: Procuring agency to specify and justify the optional.

PVMS OF MEDICAL EQUIPMENT	
Clinical Specialty	Radiological Equipment
Generic Name	MOBILE X-RAY UNIT
Clinical Purpose	They are used in wards, in ICUs and at accident sites.
TECHNICAL SPECIFICATIONS	
<p>Mobile Microprocessor based X-Ray Unit. High frequency, 30KW X-Ray Generator. 300 mA at 100 kv. Digital display of all set parameters. Rotating anode x-ray tube, with dual focus / Single Focus Anode heat storage capacity of at least 107 KHU or more Electronic timer with exposure time of 1-3 msec. Automatic over-load protection device and automatic line compensation. The unit should be battery supported for exposure and movement (Motorized). 220 V, 50 Hz.</p>	
Accessories: (Procuring agency to select as per its actual requirement)	
Optional:	

APPROVED

S. J.

CORONA HDU AND ISOLATION WARD CENTRAL GAS SUPPLY PACKAGE ON TURNKEY BASIS:

IMPORTED (SUBJECT TO APPROVAL OF SAMPLE) :

"GAS OUTLETS (BS SYSTEM) Gas outlets, complete in Box/casing gas Specific, Self-sealing valve, indexed to eliminate interchangeability /erroneous tapping of gas, Filter and cover plate as per Standard Design requirements of the bidder with following color coding; Oxygen White; Compressed Air 4 bar Black/B&W Stripes " **WITH REPLACEMENT OF EXISTING FLEXIBLE PIPING WITH COPPER PIPING**

1. Oxygen Outlet BS STANDARD - QTY 37

LOCAL SUPPLIED ITEMS (SUBJECT TO APPROVAL OF SAMPLE):

2. Copper pipe with installation Size 1/2" 18 Swg - QTY 400ft
3. Copper pipe with installation Size 5/8" 18 Swg - QTY 300ft
4. PVC duct for copper pipe 25x38 – QTY 250ft
5. PVC duct for copper pipe Size: 40x40 - QTY 300ft
6. Down Drop Control valves for outlets- QTY 37

