

# DEPARTMENT OF BIOCHEMISTRY

DST-FIST & UGC-SAP Sponsored Department

UNIVERSITY OF KERALA



(Established as University of Travancore by the Travancore University act in 1937 and reconstituted as University of Kerala by the Kerala University act of 1957 and presently governed by the Kerala university act of 1974 passed by the Kerala state Legislative Assembly No. 3878-F1/72/Law dated 27<sup>th</sup> July 1974 of the government of Kerala)

**(Re – accredited by NAAC with ‘A’ Grade)**

**Kariavattom**

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22.07.2019

## QUOTATION NOTICE

DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF KERALA

Competitive quotations are invited for the purchase of the following equipments with the specification detailed below. Sealed quotations addressed to The Associate Professor and Head, Department of Biochemistry, University of Kerala, Kariavattom campus, Thiruvananthapuram-695581 should reach on or before **12.08.2019 at 2 P.M.**

<b>Items Required for the Installation of CCTV at Animal House of the Department of Biochemistry, University of Kerala, Kariavattom</b>			
Sl. No.	Item	Quantity	Unit
1	IP Camera	5	Nos.
2	NVR - 8 Channel	1	No.
3	Hard Disk - 8 TB	1	No.
4	8 Port POE Switch	1	No.
5	4 U Rack	1	No.
6	32 inch LED Monitor	1	No.
7	Desktop Computer	1	No.
8	1 KVA UPS with 1 hr backup and closed Cabinet	1	No.

<b>Networking Items</b>			
1	Cat6 UTP Cable		
2	Information Outlet	2	Nos.
3	Single shutter faceplate	2	Nos.
4	3/3 SMB (box)	2	Nos.
5	RJ 45 Connectors	15	Nos.
6	32mm White PVC Pipe	75	Mtrs
7	Cat 6 1mtr Patch cord	1	Nos.
8	Cat 6 2mtr Patch cord	2	No.
<b>Labour</b>			
1	Installation of Cameras	5	Nos.
2	Installation of NVR - 8 Channel	1	No.
3	Installation of 8 Port POE Switch	1	No.
4	Installation of 4 U Rack	1	No.
5	Cat6 UTP Laying Charges	180	Mtrs
6	RJ 45 / IO Termination Charges	15	Nos.
7	Faceplate Fixing Charges	2	Nos.
8	3/3 PVC Box fixing Charges	2	Nos.
9	32mm PVC Pipe Laying Charges	75	Mtrs

<b>TECHNICAL SPECIFICATION REQUIRED FOR ACTIVE COMPONENTS</b>
<b>4MP bullet Network camera</b>
4 MP resolution
Video compression H.264 or H.265
Multiple video streaming
Day/night : Auto
I P 66 or better
Onvif support
Alarm trigger Motion Detection
Focal length 3.6 mm or less
IR range 20m
True WDR of 120 dB minimum
Power Source: PoE

<b>4K Network video Recorder</b>
8 Channel
128 Mbps Incoming Bandwidth
Third Party Network camera support
Recording Mode: continuous, Motion Detection, Scheduled
Storage : HDD support up to 16 TB
Ports: HDMI, VGA, 10/100/1000 self adaptive RJ 45 , USB 3.0
Back up to USB/Network
Onvif Conformance
Graphical user interface
Power supply AC 230V, 50 Hz
<b>Hard Disk Drive</b>
8 TB storage ( can be achieved using multiple HDD as per the slot available in NVR)
<b>PoE Switch</b>
No. of PoE Ports : 10/100/1000 Mbps (8) Port Self adaptive PoE
<b>Desktop Computer</b>
Intel core i3 7th Gen. or Higher
4 GB DDR 4 RAM
1 TB HDD @7200 rpm
Interface- VGA/HDMI, USB 3.0, RJ 45
21 " LED Backlit monitor
Genuine Windows 10 Home with recovery media and Microsoft office Home
<b>1 KVA UPS with Batteries and rack</b>
1kVA/0.8kW Pure sine wave
RoHS Compliance
Battery for Backup of 1 Hr
Input 230V 50Hz
output 230V 50Hz
<b>A4 Monochrome Laser Printer</b>
Print Speed : 22PPM
Memory : 64 MB or higher
Interface : Hi Speed USB 2.0 and Network Port
Print Resolution : 600*600 dpi
Paper Tray Capacity (Input and Output) : Min 100 sheet or higher
Duty Cycle : Minimum 5000 Pages per month
Paper size: A4, A5, A6, B5, C5.
Supported OS: Ubuntu
Auto Duplex Printing
<b>Warranty: 2 year comprehensive onsite warranty</b>

The undersigned reserves all rights to accept/reject any quotations without assigning any reason thereof.

