



KATWA COLLEGE

(Affiliated to the University of Burdwan)

P.O.: Katwa, Dist.: PurbaBardhaman, West Bengal, 713 130, India

Ref: 24/Equipments /KC/PC/19

Date- 13/01/2019

QUOTATIONS NOTICE FOR EQUIPMENTS PURCHASE FOR CHEMISTRY, PHYSIOLOGY AND PHYSICS (new added with Ref No.: 22/Equipments & Books/KC/PC/18, Dated 24/12/2018 and 21/Equipments & Books/KC/PC/18, Dated 14/12/2018) DEPARTMENTS INRESPECT OF ADVERTISEMENT NO-----IN THE DAILY NEWS PAPER- THE TELEGRAPH, PAGE NO-METRO - 13, DATED – 14/12/2018.

Sealed Quotations are invited from recognized Manufacturers/Suppliers/Contractors for procuring following items within **25/01/2019** (on working days, upto 3.00 p.m.). In no case the Quotations papers will be accepted after the date and time mentioned above. Quantity of the specific items may change according to final consideration. Quotation of different price ranges may be submitted for an item where specification / Model no. is not mentioned. **Quotations must include GST registration no., inclusive GST rate, exclusive GST rate and status of delivery/installation charges etc along with terms and conditions of available Guarantee/Warranty.** Quotations papers should be separately submitted for specific envelop as mentioned hereunder. No softcopy is entertained/ accepted. Sealed Quotations to be sent in the College Address – Principal, Katwa College, Katwa, PurbaBurdwan, 713130 within **25/01/2019** on working days, upto 3.00 p.m)

LIST OF EQUIPMENTS

Department of Chemistry

1. UV/Vis Spectrophotometer

- (i) Microprocessor double beam spectrophotometer UV-vis LI-2700 (Lassany)
- (ii) UV-vis Shimadzu 1900

Specification for UV-vis Spectrophotometer:

Optical System : Double Beam

Wavelength range : 190nm -1100nm

Spectral Bandwidth : 1nm

Wavelength scanning speed: 3,000 to 2 nm/min

Wavelength accuracy: $\pm 0.1\text{nm}(656.1\text{nmD2})$
 $\pm 0.3\text{nm}(\text{full wavelength range})$
Wavelength repeatability: $\pm 0.1 \text{ nm}$
Photometric accuracy: $\pm 0.002 \text{ Abs at } 0.5 \text{ Abs}$
 $\pm 0.004 \text{ Abs at } 1.0 \text{ Abs}$
 $\pm 0.006 \text{ Abs at } 2.0 \text{ Abs}$
Photometric Repeatability : Less than $\pm 0.001 \text{ Abs at } 0.5 \text{ Abs}$
Less than $\pm 0.001 \text{ Abs at } 1 \text{ Abs}$
Less than $\pm 0.003 \text{ Abs at } 2 \text{ Abs}$
Photometric range: Absorbance: -4 to 4 Abs
Transmittance: 0% to 400%
Stray light: Less than 0.02% at 220 nm (NaI)
Less than 0.02% at 340 nm (NaNO₂)
Less than 1.0% at 198 nm (KCl)
Stability: Less than 0.0003 Abs/Hr (700 nm)
Baseline Flatness: Less than $\pm 0.0006 \text{ Abs (1,100 to } 190 \text{ nm)}$
Noise: Less than 0.00005 Abs (700 nm)
Scanning speed: Fast, Mid, Slow
Wavelength setting: 0.1 nm increments
Light source: Deuterium & Tungsten lamp
Wavelength Resolution: 0.1nm

Detector: Silicon photodiode

PC compatibility: Provide with UVProbe software and Computer and its accessories. .

Specification:Power: AC220V/50Hz or AC 110V/60Hz, 140VA.

Cuvette: Quartz cells 2 pair

2. pH Meter:

- (i) Labline pH Meter,
- (ii) **Specification:**Dimension : 80 mm (H) x 235 mm (W) x 150 mm (L)
- (iii) Labtronics Microprocessor Based PH / Temperature / MV Meter (Graphical), Model No.: LT-50,Power : 230V + 50Hz
- (iv) Systronic Digital pH Meter 802.

3. Digital Conductometer

- (i) Labline digital conductometer.
- (ii) Systronic Conductometer Meter 304/306
- (iii) Digital Conductivity Meter.
- (iv) K.Roy & Co.

4. Melting Point Apparatus: Manual

5. Potentiometer:

(i) Systronics Digital Potentiometer 318

6. Mechanical Shaker:

7. Cyclic Voltameter / Potentiostat: (i) ModleBASi 100B. (ii) Digi-Ivy (Modle: DY2300)

8. Sinter Glass Crucible:

9. Stalagmometer :

10. Magnetic Stirrer :Remi, Model 19-Q (without Hotplate)

11. Isoelectronic pH meter: Horiba SZ-100Z

Department of Physics

Sl. No	Desktop Computer Specifications Required
1	Processor : Intel® 8th Generation Core i3 8100, 3.6GHz Quad Core 65W CPU or higher
2	Chipset : Intel H370 chipset or higher
3	Motherboard : OEM Motherboard with OEM logo embossed on the motherboard (No Sticker)
4	Memory : 4 GB DDR4 RAM expandable to 32GB; Two DIMM slots; Non-ECC dual-channel upto 2666 MT/s DDR4 SDRAM
5	HDD & controller : 1TB HDD, 7200 RPM, SATA III 6 Gbps, with prefailure alert indication
6	Optical Drive : DVD Writer
7	Graphics : Integrated Intel® HD Graphics 630 or higher
8	Audio : High Definition Integrated Audio with Internal Speaker
9	Ethernet : Integrated Gigabit (10/100/1000 NIC) LAN
10	Wireless LAN : 802.11 b/g/n PCIe wireless with bluetooth 4.2 combo
11	Slots : Minimum 2 PCIe slots (atleast 1 PCI Express x16), 2 M.2 slots & one SD card reader
12	Bays : atleast (1) 3.5" Drive bays & (1) ODD bay
13	Ports : Minimum 8 USB Ports (4 USB 3.1 Gen 1, 4 USB 2.0) of which atleast 2 USB Ports in Front; 1 headphone/microphone combo; 1Audio line in; 1Audio line out; (1) VGA video port; (1) HDMI; (1) RJ-45 network connector; (1) RS-232 serial port, (1) Parallel Port
14	Form Factor : SFF (Small Form Factor)
15	Power Supply : No more than 190 W active PFC Power Supply & with minimum 90% efficiency
16	Keyboard/ Mouse : USB 104 keys keyboard (Same make as PC) USB 2 Button Scroll Mouse (Same make as PC)
17	Operating System : DOS
18	Compliance & Certification : Energy Star ver 6; EPEAT Certified for India; FCC,CE,Rohs, UL; ISO 9001,14001,20001,27001 for OEM
19	System Weight / Volume : Weight should be no more than 4.5 KG and volume no more than 8L
20	Information Accessibility : Product details, specifications and brochure to be available in public domain

21	Support : Drivers should be available for download from OEM site for at least 3 years from the date of purchase order
22	Market Credibility : The OEM vendor should be of positive net worth for the last three years
23	Monitor : 19.5" or higher IPS Panel LED backlit with TCO 7.0
24	Warranty : 3 Years onsite

Department of Physiology

Sl No.	Items	Quantity
1	SalisHaemoglooino meter	12 pices.
2	Haemocytometer -	12pices.
3	Capillary tube for determination. For blood coagulation times -radius 1.5 mm	one bunch.
4	Occulometer& Stage micrometer -	6pices.
5	Dealles (local)	
6	Knee Hammer Local -	2pices.
7	Staibming jar Brocilion -	24pices.
8	Beles apparatus -	6pices.
9	Air ater local -	6pices.
10	Knief of Microtome (Ince) -	6pices. Inco
11	Stylus for kymograph -	20pices.inco
12	Tuning forck -	6pices.
13	Tuning forck Inco	6pices.
14	Triglyceride and cholesterol momitor (Morphen)	1pices.
15	Densitometer (rudlth research analytical)	1 piece
16	Digital spgigmonamater – doctor company	1 Piece
17	Digital peak flowmeter micro life- rossmax).	1 Piece
18	Digital hand grip Apex international -	2pices.
19	Suunto A molit 3peak Suunto A company.-	2pices.
20	Skin fold caliperseArson scientific oeners-	1 Piece
21	Pulse oxymeterDr.Morepen. -(finger tip pulse oxymeter P O 05 oxmiter)	1 Piece
22	Centrifuge 16000 R.P.M Remi	1 Piece
23	Glucometer Dr.Morpen	2 pices.
24	Spirometer R.M.S Helios 702	1 Piece
25	Body composition Monitor – organ G.B.F. 212	pices.

26	Digital Hemoglobinometer A.S.I.N Beo751D9124	1 Piece
27	Asian – Do 7182 X R 39.	pices.

***Sd/-
Principal,
Katwa College***