



KHAIRPUR MEDICAL COLLEGE



KHAIRPUR MIR'S SINDH

Telephone No: 0243-9280450/0243-923103

Specification of items purchasing through tender

S.NO	DESCRIPTION	BRAND NAME AND SPECIFICATION	QTY	@RATE	REMARKS
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1) Machinery /Equipments

1.	Centrifuge Machine Latest Model	Germany,Italy,Japan	2		
2.	Agglutination viewer Latest Model	Germany,Italy,Japan	1		
3.	Water Bath	Germany,Italy,Japan	1		
4.	Platelet rotator with incubator Latest Model	Germany,Italy,Japan	1		
5.	Incubator 37 C Latest Model	Germany,Italy,Japan	1		
6.	Semi Automated Chemistry Analyzer Latest Model	Germany,Italy,Japan	1		
7.	Immune – assay Analyzer Latest Model	Germany,Italy,Japan	1		
8.	Electrolyte Machine Latest Model	Germany,Italy,Japan	1		
9.	ELISA Machine Latest Model	Germany,Italy,Japan	1		
10.	Kits (Sugar, Urea, Creatinine, S Bilirubin GPT,AIK.Po4, S uric acid, Electrolyte)	Germany,Italy,Japan	Two pack kits		
11.	Microtome (with Disposable Blade) Latest Model	Germany,Italy,Japan	1		Microtome with 100 disposable blades
12.	Tissue processor Latest Model	Germany,Italy,Japan	1		
13.	Embedding Station Latest Model	Germany,Italy,Japan	1		
14.	Basic Staining Latest Model	Germany,Italy,Japan	2		
15.	Microscope (5- Head) Latest	Nikon,Olympus,Zeif	1		



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16.	Binocular Microscope Latest Model	Nikon,Olympus,Zeif	15		
17.	Hematology Analyzer Latest Model	Germany,Italy,Japan	1		
18.	Neubauer Chambers Latest Model	Germany,Italy,Japan	5		
19.	Reticulogy tecont stain Latest Model	Germany, Italy, Japan	2		
20.	Giemsa stain	Germany, Italy, Japan	4		
21.	ESR Tube	Germany, Italy, Japan	200		
22.	Glass Slides	Germany, Italy, Japan	200		
23.	Refract meter Latest Model	Germany, Italy, Japan	1		
24.	Plundger (for F.N.A.C)	Germany, Italy, Japan	2		
25.	Bone Marrow trempine needles	Germany, Italy, Japan	4 boxes		
26.	Bone Marrow aspirate needles	Germany, Italy, Japan	4boxes		
27.	3/5 pact automated differential counter Latest Model	Germany, Italy, Japan	1		
28.	Ion selective electrode Latest Model	Germany, Italy, Japan	1		
29.	Blood gas analyzer Latest Model	Germany, Italy, Japan	1		
30.	Student Kymograph	Germany, Japan, China	02		
31.	ECG Machine Latest Model	Germany, Italy, Japan	01		
32.	Micro heamaterict centrifuge Latest Model		01		
33.	Multimedia Projectors	OPTIMA / 3M or Equivalent	10		
34.	Laser Jet Duplex Network Printers	HP / Samsung or Equivalent	15		



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35.	Laptop Core i7 6 th Generation, 8GB 1TB	Lenovo T series / HP E series or Equivalent	15		
36.	Scanner	HP / Canon or Equivalent	15		
37.	Desktop computer system (Core i5, 500 GB, 4GB, 17" LCD, Keyboard, Mouse & Cable)	HP / Dell or Equivalent	25		
38.	ASA 5515-X Firewall (hardware)	CISCO or Equivalent	01		
39.	Server Machine IBMx3650 M5 Server	HP / Dell or Equivalent	01		
40.	Desktop Server Rack -42U	IBM / HP or Equivalent	01		
41.	Mikrotik Server VPN, Load Balancer Hotspot, wireless, with installation.	Microtel or Equivalent	02		For Campus and F Block connectivity
42.	Point to Point wireless connectivity (10 Kilo meters range) with installation.	CISCO / Linksys or Equivalent	02		For Campus and F Block connectivity
43.	CCTV Surveillance System Based On NVR & POEs with installation	Hik Vision / Panasonic or Equivalent	01		
44.	Camera for CCTV System (Bullet outdoor-10, DOM-5 indoor-10 all camera should be 4Mega pixels, night vision	Hik Vision / Panasonic or Equivalent	25		
45.	Cisco Catalyst 2960 48 port, power over Ethernet(PoE) Switch	Cisco/Link sys or Equivalent	04		
46.	Cisco 8540 Wireless Controller with 15 Access Points	Cisco or Equivalent	2		
47.	Led 42" For CCTV (1-For Principal Office, 1- For Administrator Office & 1-For IT Department For Technical Monitoring	Sony / Samsung or Panasonic	03		



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48.	UPS System (APC) 6 KV (1- Servers & lecture halls 1-For CCTV system, 1-For F- Block, with installation .	APC/Tripplite/ Equivalent	04		
49.	Portable Multimedia Screen	OPTIMA / Samsung or Equivalent	02		
50.	Multimedia Screen Wall mounted (with remote control and installation)		10		

ITEM WISE SPECIFICATGIONS:

33. MULTIMEDIA PROJECTORS:

- Excellent price performance ratio, sharp graphics, and accurate colors
- Bright images and deep black levels with 4000 lumens and 18000:1 contrast ratio
- 10,000 hour lamp life in DE lamp mode
- 10 preset color enhancement profiles with Brilliant Color
- Full 3D creates an inviting and immersive experience.
- HDMI connectivity, USB Display

34. Laser Jet Duplex Network Printers(DNP):

- Resolution (black): Up to 1200 x 1200 dpi
- Print Technology: Laser
- Display: 2-line LCD (text and graphics)
- Processor speed: 800 MHz
- Connectivity, standard: 1 Hi-Speed USB 2.0; 1 Ethernet 10/100/1000T network
- Network ready: Standard (built-in Gigabit Ethernet)
- Ports: 1 Hi-Speed USB 2.0; 1 Ethernet 10/100/1000T network

35. Lenovo T460

- Up to 6th Generation Intel® Core™ i7 vPro processor
- Up to Windows 10 Pro
- 14" anti-glare display, up to FHD (1920x1080) IPS with touch option
- Up to 32GB DDR3 h-performance memory
- Up to 1TB Hybrid HDD storage
- Ports: 3 USB 3.0, HDMI, Docking, miniDP, SD card slot, RJ-45, WiDi, optional WiGig docking, optional Smart Card Reader
- Intel HD Graphics**Up to 14 hours' battery life with 23Wh+72Wh with PowerBridge

36. Scanner:



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	<ul style="list-style-type: none"> • With Send to Cloud you can easily upload your images to Cloud Services like Evernote and Dropbox. • Auto Scan Mode automatically adjusts settings by detecting what you are scanning • Scan a letter-sized document in approx. 10 seconds • Auto Document Fix automatically employs area-by-area correction for beautiful, easy-to-view scans. • Create PDF Files • OCR <p>37. HP Pavilion All-in-One - 23-q211in (T0R69AA)</p> <ul style="list-style-type: none"> • Intel® Core™ i7-6700T Processor • Windows 10 • 8GB RAM / 1TB HDD • 58.42 cm(23) Full HD Touch • AMD Radeon R7 A360 (2 GB DDR3 dedicated) <p>38. ASA 5515-XFirewall (hardware):</p> <ol style="list-style-type: none"> ASA IPS throughput: 400 Mbps (extra hardware not required) Memory: 8 GB Virtual interfaces (VLANs): 100 Integrated I/O: 6 Gigabit Ethernet (GE) copper System Bus: Multi bus architecture Users/Nodes: Unlimited Triple Data Encryption Standard/Advanced Encryption Standard (3DE/AES) VPN though put: 250 Mbps <p>39. IBM Server machine IBM x3650 M5 Server</p> <ul style="list-style-type: none"> • Specifications • Form factor/height 2U Rack • Processor (max)/Cache (max) Up to two Intel Xeon E5-2600 v3 series processors with up to 18 cores each/Up to 45 MB per processor • Memory (max) Up to 1.5 TB of memory with SK Hynix 64 GB* TruDDR4 Memory LRDIMMs; System supports RDIMM/ LRDIMM • Disk bays Up to 24 front and 2 rear 2.5-inch HDDs/SSDs; or up to 12 3.5-inch and 2 rear 3.5-inch HDDs + 2 rear 2.5inch HDDs/SSDs; or up to 8 3.5-inch HDDs and 2 rear 3.5-inch or 2.5-inch HDDs/SSDs (model dependent) • RAID support 12 Gbps dedicated slot for the first RAID; support for up to four RAID adapters • Power supply (std/max) 1/2 redundant 550 W AC, 750 W AC, 900 W AC 80 PLUS® Platinum, or 750 W AC 80 PLUS Titanium • Hot-swap components Power supplies, fan modules and HDDs/SSDs • Network Interface 4 × 1 GbE (std.) and 1 x IMM; optional 10/40 GbE ML2 or PCIe adapter; Trusted Platform Module built-in 				
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	<ul style="list-style-type: none"> Expansion slots 1 – 8 PCIe 3.0 slots (supports up to 2 x 300 W GPUs and up to 1 x ML2) and 1 dedicated RAID slot USB Ports/VGA Ports Up to 3 front (1 x USB 3.0, 2 x USB 2.0) and 4 back (2 x USB 3.0, 2 x USB 2.0) and 1 internal (USB 3.0) for hypervisor/1 front and 1 back Maximum internal storage Up to 86.4 TB Energy-efficiency compliance† 80 PLUS Platinum, 80 PLUS Titanium; ENERGY STAR® compliance (model dependent) Systems management IBM IMM2.1; one IMM dedicated port and one shared; optional remote presence; Predictive Failure Analysis; LEDs; optional next-gen light path diagnostics panel Operating systems (OS) supported Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware vSphere - (Optional USB Key or SD Media Adapter) <p>40. Server Rack:42U Rack Cabinet</p> <ul style="list-style-type: none"> 600X1050mm Server Racks Front Single Mesh Door Rear Split Mesh door 2Solid Side Panels <p>41. Mikrotik Server VPN, DHCP,Routing, Load Balancer hotspot, Wireless, with installation</p> <p>42. Point to Point wireless connectivity</p> <ul style="list-style-type: none"> Cisco (10 Kilo meters range) with installation <p>43. CCTV NVR Surveillance system with Installation</p> <ul style="list-style-type: none"> Hik-vission or Panasonic 32 Channel NVR Two 24 port POEs (Gigabit) Memory: 4 TB hard drive 6 Port VGA splitter <p>44. Camera</p> <ul style="list-style-type: none"> CCTV PoE Camera Bullet Camera outdoor-10 camera with dust/water proof case Dome-5, indoor-10 All camera should be 6 pixels, night vision <p>45. Cisco Switch</p> <p>a. Catalyst 2960 48 port, Power over Ethernet (PoE) Switch</p> <p>46. Sony Led / Panasonic/ Samsung 42”</p> <ul style="list-style-type: none"> HDMI Ports USB Ports Audio Ports AV Video Ports 				



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	<ul style="list-style-type: none"> • Ethernet Ports • Camera • Support all Video formats • Wall Mount Stand • Remote Control <p>47. UPS System 6000 KV, 230 V:</p> <ul style="list-style-type: none"> • Input Frequency: 50/60 Hz +/- 5 Hz (auto sensing) <ul style="list-style-type: none"> a. Nominal Input Voltage: 230V b. Full Load Efficiency: 91.9% c. Output Frequency (Sync to Mains): 50/60 Hz +/- 3 Hz user adjustable +/- 0.1 d. Output Voltage Distortion: Less than 3% e. Output Power Capacity: 4200 Watts / 6000 VA f. Max Configurable Power: 4200 Watts / 6000 VA g. Output Voltage: 220, 240 h. 04 batteries bank (4x2) <p>48. Portable Projector Screen:</p> <ul style="list-style-type: none"> a. 100 inches b. Adjustable Multi aspect ratio c. Tripod Pull up projection. 				
33.	A.C Spilt (1.5 Tons) Warranty with installation	Dawlance/ orient / Haier	20		
34.	A.C Spilt (2 Tons) warranty with installation	Dawlance/ orient / Haier	6		
35.	Dispenser Latest Model triple Action	Dawlance/ orient / Haier	30		
36.	D Freezer Large Size Latest Model-2017	Dawlance/ orient / Haier	06		
37.	Refrigerator Large 56'' Latest Model-2017	Dawlance/ orient / Haier	25		
38.	Blood Bank Refrigerator 4-8 Centigrade single glass door	Panasonic/ Haier / Orient	1		
39.	-20 C Freezer for Storage	Dawlance/ orient / Haier	1		
40.	-70 C Freezer for Storage	Dawlance/ orient / Haier	1		
41.	Micro wave Oven Dw366	Dawlance/ orient / Haier	1		
42.	Electric Grass cutter 38cm	Hitachi/ Panasonic or Equivalent	2		



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43.	Electric floor Brush	Hitachi / Panasonic or Equivalent	2		
44.	Automatic Electric Water cooler 65 liters per/hour, with filters set and installation.	Dawlance/ orient / super Ashia	8		
45.	D Freezer (mortuary) for two dead bodies	Dawlance/ waves / chinese			
46.	Solar plates 150 watts (8-Amp D.C) size 1480mmX680X40mm installation with Breaket stand, for fixation & warranty.	Germany/Japan/Italy	50		
47.	Solar Voltage Controller 100 Amp	Germany/Japan/Italy	4		
48.	Inverter 5000w (DC to Ac) with Charge system	Germany/Japan/Italy	2		
49.	Dry Battery 200 Amp (12 v D C) installation (Grid tie) with Warranty.	G S Japan or Equivalent	10		
50.	Stabilizer 10000 watts	Rimco/Universal or Equivalent	25		
51.	45 KVA Diesel Generator Perkins	Latest model 1103A-33TGI Engine Perkins, UK RPM-1500 Out put prime rating 45KVA,36KVA Out put standby rating 50KVA,40KVA Alternator Stamford Supply Voltage 220v to 380v, 3 phase, 4 core wire. Frequency 50Hz to 60Hz,power 08.PF With complete inatallation breaker panel, Exhaust silencer, battery, control panel deep sea 7120, power cable 50 mm 4 core,	2		
	Sound Proof Canopy	Complete	2		
	ATS Panel	Complete 200 Apms 3	2		



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		phase			
52	Earthing	Fixing 2'x2'x1/8'' copper plate buried in ground dept of 6' or less if water comes out from ground level with salt and choroat, earth plate to be connected with No.8 S.W.G.bare copper wire run in 1/2, G.I pipe straight from earth plate into.	2		

FURNITURE					
	Items	Specification	Qty		Picture
1.	Study Chairs (light blue cushion) with side arm tablet	Boss Company / Chairman/ Chinese Sample available in college as show in picture	200		
2.	Office Table (5x3) With side Rack having computer keyboard tray inside rack. 5 mm glass to	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	20		
3.	Visiting Chairs having imported leatherette cushion in seat, wooden, Best Quality Multyfoam or Equivalent quality foam, having high quality laequer polish	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	200		



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4.	Revolving Steel Stools solid with fiber optic seating chair stile, light blue color	Sample available in college and as show in picture	200		
5.	Revolving Chair with imported hydraulic base imported wheel and best quality having imported leatherette cushion	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	20		
6.	Office table 4x2 1/2 having Formica lamination chipboard, with three draws, Wooden lipping on all edges.	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	25		
7.	Conference Table With upper glass 25 seating capacity around .	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	1		
8.	Cabinet (Almirah) Lamination with glass door , 6'X34''X18''	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	20		



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9.	Computer Table made Lamination + iron squire Pipe 1''X1''	Sample available in college and as show in picture Quality should be Interwood or Equivalent.	30		
10.	Study Table wooden Library, seating capacity for one student made with Lamination.		200		
11.	Book, shelf, size, 78''X36''X16'' with glass door Lamination and chipboard. lipping on all edges, having 5 shelves for Library,	Sample available in college and as show in picture, Quality should be Interwood or Equivalent.	40		
12.	Steel Cabinet (Almirah) 6X34''X18 Made as 18 Guage having 4 Shelves, high quality Locks system, silver color.	Sample available in college and as show in picture,	30		
13.	File Cabinet steel size 54''X24X18 made of 18 Guage have four draws one lock system.	Sample available in college and as show in picture,	20		



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14.	Rostrum- Wooden Plus Glass	Sample available in college and as show in picture Quality should be Interwood or Equivalent	6		
15.	Museum tall wood Showcase frame size 78''X36''X16'' and have all sides of Glass		20		
16.	3 seater waiting chair all steel	(sample available in college and shown in picture)	30		
17.	Laboratory Table with steel top 6 feet x2.5	Tally wood or equivalent	10		
18.	Library Chairs for students with net at back	Tally wood or equivalent	200		
19.	Student Study Tables 3 x2.5 feet	Tally wood or equivalent	100		
20.	Students Study chairs	Tally wood or equivalent	100		