

6. Bill of Quantity:

S. No.	Product Features	Description	Compliance (Y/N)	Make & Model	Qty	Rate	Amount
A. DESKTOPS (CORE i7)							
1	Make	Branded (Dell, HP or equivalent)			125		
	Form Factor / Height	Micro Form Factor					
	Processor	Intel® Core i7-10700T Processor					
	Processor Speed	up to 4.5 Ghz or higher					
	Intel Cache Smart	Up to 16 MB cache					
	Memory Installed	Installed 16 GB (DDR4), extendable up to 32 GB (DDR4)					
	Hard Disk Drives	512 GB Solid State Drive PCIe NVME Class 40 – Dual Storage Support					
	Network Interface	Ethernet (RJ-45) (integrated)					
	Ports / slots	1 Universal Audio Jack					
		1 USB 3.2 Gen 2x1 Type-C® port					
		1 USB 3.2 Gen 1 Type-A port with Power Share					
		1 RJ45 Ethernet port					
		3 USB 3.2 Gen 1 Type-A port					
		1 USB 3.2 Gen 1 Type-A port with Smart Power on					
		2 DisplayPort 1.4 ports					
		1 HDMI					
		1 M.2 2230/2280 slot for SSD/Intel Optane					
	Power Supply	90W with 87% efficient or higher					
	OS Support	Windows 10 Pro 64 or later					
	Operating System	Free DOS					
	Peripherals	Branded USB Standard Keyboard USB 2-button optical scroll mouse DisplayPort to VGA converter DisplayPort to HDMI converter					



Intel Chipset	Intel Q570 or equivalent			
Image Load	IBA image load in BIOS Service by manufacturer.			
Graphics	Intel UHD Graphics 630 or equivalent			
Security	Standard lock slot required			
LED/Monitor Release Kit / Attachment	Quoted Model should be VESA Compliant Micro PC mounting bracket behind monitor (with 60 PCs out of 125 PCs)	60	\$ 849	\$ 50,940
Pedestal stand	Micro vertical stand to support / hold the PC in standalone vertical position independent of monitor (with 65 PCs out of 125 PCs)	65	\$ 839	\$ 54,535
Warranty	5 years' comprehensive, with parts & labor, warranty from the principal (back-to-back).			
Total Amount C&F Value (please refer to "instructions" clause "e")				\$ 105,475

S.No.	Product Features	Description	Compliance (Y/N)	Make & Model	Qty	Rate	Amount
B. LAPTOPS - High End Configuration							
2	Make	Branded (Dell, HP or equivalent)		Syed Akbar Hussain Kazmi Member - PC Manager Finance (Payable) IBA Karachi	36	\$ 1264	\$ 45,504
	Series	Business Series					
	Operating	Free Dos					
	Processor	11th Intel® Core i7-1165G7 or higher					
	Chipset	Integrated in CPU					
	Graphics	Nvidia MX450 2GB GDDR5 or Equivalent					
	RAM	Installed 32 GB 3200 MHz (DDR4)					
	HDD	512 GB SSD -(Dual Storage Support)					
	Display	15.6 FHD AG 250 Nits					
	Communications	Wi-Fi 802.11ac- 2 x 2, Bluetooth 5.0, Integrated Gigabit Ethernet required					
	Camera	HD webcam with shutter and digital microphone or higher					
	Audio & Speakers	Yes required					

SYED WAJEED ZAIDI
Member - PC
Sr. Manager IT
IBA Karachi

M. HARIS QURESHI
External Member - PC
Procurement Specialist - HEJ
University of Karachi

M. MABROOR KHAN
External Member - PC
Admin Officer CEMB
University of Karachi



Battery Power	3 cell 41Whr Battery with 5 Years principal Warranty					
Ports	1 USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/Power Delivery 3 USB Ports					
	1 HDMI 1.4a port					
	1 RJ-45 Ethernet port 1 Universal audio port					
	1-barrel power adapter port 1 microSD 3.0 card slot					
	Energy Star					
	EPEAT Registered Silver					
Security Management	Trusted Platform Module TPM 2.0					
Multi-media Card Reader	Yes required					
Carry Bag + Mouse	Original Manufacture Branded Bag & Optical Mouse					
Power Adapter	Smart 65 W External AC power adapter. or equivalent					
Warranty	5 years' comprehensive, with parts & labor, warranty from the principal (back to back).					
Total Amount C&F Value (please refer to "instructions" clause "e")						845,504

DR. S.M FAISAL IRADAT
Chairman - PC
Assistant Professor & Program Director
IBA Karachi

Syed Akbar Hussain Kazmi
Member - PC
Manager Finance (Payable)
IBA Karachi

S.No.	Product Features	Description	Compliance (Y/N)	Make & Model	Qty	Rate	Amount
C. LAPTOPS - Normal Configuration							
3	Make	Branded (Dell, HP or equivalent)					
	Series	Business Series					
	Operating System	Free Dos					
	Processor	11 th Intel® Core i7-1165G7 or higher					
	Chipset	Integrated in CPU					
	Graphics	Intel IRIS XE Graphics or Equivalent					
	RAM	Installed 16 GB 3200 MHz (DDR4), extendable up to 32 GB (DDR4)					
	HDD	1 TB SATA or higher					
	Display	15.6 FHD AG 250 Nits					
					30	\$ 994	\$ 29,820

SYED WAJEEH ZAIDI
Member - PC
Sr. Manager IT
IBA Karachi

M. HARIS QURESHI
External Member - PC
Procurement Specialist - HEJ
University of Karachi

M. MABROOR KHAN
External Member - PG
Admin Officer CEMB
University of Karachi



Communications	Wi-Fi 802.11ac- 2 x 2, Bluetooth 5.0, Integrated Gigabit Ethernet required					
Camera	HD webcam with shutter and digital microphone or higher					
Audio & Speakers	Yes required					
Battery Power	3 cell 41Whr Battery with 5 Years principal Warranty					
Ports	1 USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/Power Delivery					
	3 USB Ports					
	1 HDMI 1.4a port					
	1 RJ-45 Ethernet port 1 Universal audio port					
	1-barrel power adapter port 1 microSD 3.0 card slot					
	Energy Star					
	EPEAT Registered Silver					
Security Management	Trusted Platform Module TPM 2.0					
Multi-media Card Reader	Yes required					
Carry Bag + Mouse	Original Manufacture Branded Bag & Optical Mouse					
Power Adapter	Smart 65 W External AC power adapter. or equivalent					
Warranty	5 years' comprehensive, with parts & labor, warranty from the principal (back to back).					
Total Amount C&F Value (please refer to "instructions" clause "e")						\$ 29820/-

DR. S.M FAISAL IRADAT
Chairman - PC
Assistant Professor & Program Director
IBA Karachi

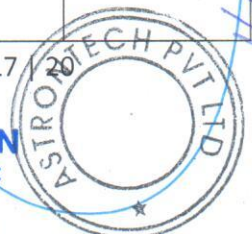
Syed Akbar Hussain Kazmi
Member - PC
Manager Finance (Payable)
IBA Karachi

S.No.	Product Features	Description	Compliance (Y/N)	Make & Model	Qty	Rate	Amount
D. LED Monitors							
4	Diagonal Viewing Size	60.45 cm (21.5 inches)			30	\$ 148	\$ 4440
	Resolution	1920 x 1080 at 60 Hz					
	Aspect Ratio	16:09					
	Brightness	250 cd/m ²					
	Viewing Angle	160°/170°					
	Display Screen Coating	Anti-Glare					
	Backlight Technology	LED					

SYED WAJEEH ZAIDI
Member - PC
Sr. Manager IT
IBA Karachi

M.HARIS QURESHI
External Member - PC
Procurement Specialist - HEJ
University of Karachi

M. MABROOR KHAN
External Member - PC
Admin Officer CEMB
University of Karachi



Connectivity interface	1 x VGA, 1 x DisplayPort 1.2, 1 x HDMI				
Cables	DP cable, Power Cable				
Adjustability	Tilt Only (-5° to 21°)				
Warranty	5 Years' Advanced Exchange Service				
Total Amount C&F Value (please refer to "instructions" clause "e")					\$ 4,440/-

Total Amount A + B + C + D (C&F Foreign Currency)	\$ 185,239/-
---	--------------

Total Amount C&F Foreign Currency (in words) ONE HUNDRED EIGHTY FIVE THOUSANDS TWO HUNDRED THIRTY NINE US DOLLARS ONLY.

To be filled by IBA, Karachi (as per clause 4(a))

Total Amount PKR (in words) _____

M. Mabroor Khan
M. MABROOR KHAN
 External Member - PC
 Admin Officer CEMB
 University of Karachi

Syed Wajeeh Zaidi
SYED WAJEEH ZAIDI
 Member - PC
 Sr. Manager IT
 IBA Karachi

M. Haris Qureshi
M. HARIS QURESHI
 External Member - PC
 Procurement Specialist - HEJ
 University of Karachi

Syed Akbar Hussain Kazmi
Syed Akbar Hussain Kazmi
 Member - PC
 Manager Finance (Payable)
 IBA Karachi

Dr. S.M. Faisal Iradat
DR. S.M FAISAL IRADAT
 Chairman - PC
 Assistant Professor & Program Director
 IBA Karachi



Stamp & Signature

It is hereby certified that the terms and conditions have been read, agreed upon and signed.

M/s ASTRONTECH PRIVATE LIMITED

Contact Person MUHAMMAD ASAD

Address Plot #1-6/17 Sector #05, KORANGI IND AREA KARACHI

Tel # 021 35151052-53 Fax —
Yakunul/psml

Mobile 0307-7770328 email muhammad.asad@astron.com.pk

Stamp & Signature

