

Technical Specifications

GD-91: Procurement of Computers, Accessories and Equipment including ACs for renovated Classroom of NAEM & ZDs

The Goods and Related Services shall comply with following Technical Specifications and Standards. The Bidder shall prepare a similar table to justify compliance with the requirements.

List of Goods

Technical Specifications for Laptop

Item No.	Name of Goods or Related Services	Technical Description, Specifications and Standards	Bidder's Offer
1	Laptop	Brand: Any Internationally Reputed Brand (To be mentioned by the Bidder) Model: To be mentioned by the Bidder. Country of Origin: To be mentioned by the Bidder. Country of Manufacture: To be mentioned by the Bidder. Processor: 8 th Generation Intel Core i7-8550U (1.8 GHz base frequency, up to 4 GHz with Turbo Boost Technology, 8 MB cache, Higher-End Quad-Core) Motherboard: Intel Integrated with processor RAM: 8 GB DDR4-2400 MHz SDRAM; Hard Disk Drive: 1 TB 5400 rpm SATA; Optical Drive: DVD ±RW drive Graphics Adapter: Intel /AMD Radeon/NVIDIA GeForce HD Graphics Integrated Display Size: 15" ~ 15.6" Display Resolution: FHD (1920 x 1080) with Anti-glare WLED-Backlit I/O Port: Minimum 3 USB ports (at least 1 port should be 3.0 or above), 1 HDMI port, SD Card reader, headphone/ Microphone combo jack Webcam: Integrated HD webcam with Microphone NIC: Integrated Gigabit Ethernet with RJ-45 Connectivity WLAN: 802.11a/b/g/n/ac Wi-Fi and Bluetooth 4.2 Combo Battery: Minimum 3-cell Lithium Ion battery with 4.5 hours backup time Features: Touchpad with multi-touch gesture support, Dual speakers Operating System: Windows 10 Professional with genuine License Antivirus: Any Reputed antivirus with 1 year subscription Accessories: USB optical Mouse of same brand, Original Carrying Bag. Others: Installation and configuring with all necessary software. Certification: ISO 9001: 2015 certificate for quality assurance and FCC class B certificate	

AB

3

[Handwritten signature]

[Handwritten signature]

Item No.	Name of Goods or Related Services	Technical Description, Specifications and Standards	Bidder's Offer
		Warranty: 03 (three) years full warranty with spare parts and service. 01 Year warranty for Battery and adapter.	

Technical Specifications for 2 Ton AC

Item No.	Name of Goods or Related Services	Technical Description, Specifications and Standards	Bidder's Offer
1	Air Conditioner	Brand	Any Reputed Brand (To be mentioned by the Bidder)
		Model	To be mentioned by the Bidder
		Country of Origin	To be mentioned by the Bidder
		Country of Manufacture	To be mentioned by the Bidder
		Capacity	2.0 Ton, 24,000 BTU / Hour
		Category	Wall Mounted Split Type Air Conditioner
		Power source (V/Ø/Hz)	220-240/1/50
		Cooling input power (KW)	2.62-2.72
		EER (cooling)	2.60-2.54
		Running current (A)	12.8-13.4
		Moisture removal (L/H)	2.5
		Indoor airflow rate (M ³ /H)	880-950
		Outdoor airflow rate (M ³ /H)	2,590
		Refrigerant	R22
		Noise Level (indoor)	Less than 45 dB
		Noise Level (outdoor)	Less than 57 dB
		Operation Range (°CDB)	20 to 52
		Energy Rating	3 Star
Features	Powerful Cooling; Multi Airflow for better Air Circulation, Eco-friendly Gas; Low Noise Design, Smart Energy-Saving Operation, Indoor Temperature LED Display		
Product certification	ISO 9001 Certified and ISO 14001 Certified		
Installation including supply of all materials and labor	Supply, installation, testing and Commissioning at designated locations approved by SESIP as per following criteria: <ul style="list-style-type: none"> • Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak 		

AD

[Handwritten signature]

[Handwritten signature]

			testing and additional refrigerant charge if required. • Supply & installation of suitable size copper refrigerant lines (suction and return) including insulation, elbow, bends, tees, joints, cutting, drilling, fitting, PVC channel setting, drain pipe and all necessary materials along with required electrical and control cabling as per standard practice.	
		Warranty & services	Electrical Spare Parts: 2 Years; Compressor: 3 Years; Free Service: 3 Years	

Technical Specifications for 2.5 Ton AC

Item No.	Name of Goods or Related Services	Technical Description, Specifications and Standards		Bidder's Offer
1	Air Conditioner	Brand	Any Reputed Brand (To be mentioned by the Bidder)	
		Model	To be mentioned by the Bidder	
		Country of Origin	To be mentioned by the Bidder	
		Country of Manufacture	To be mentioned by the Bidder	
		Capacity	2.5 Ton 30,000 BTU/Hour	
		Category	Wall Mounted Split Type Air Conditioner	
		Power source (V/Ø/Hz)	220-240/1/50	
		Cooling input power (KW)	2.96-3.08	
		EER (cooling)	2.72-2.66	
		Running current (A)	13.6-14.6	
		Moisture removal (L/H)	2.0	
		Noise Level (indoor)	Less than 50 dB	
		Noise Level (outdoor)	Less than 54 dB	
		Indoor airflow rate (M ³ /H)	1200	
		Outdoor airflow rate (M ³ /H)	3300	
		Refrigerant	R410A / R22	
Energy Rating	3 Star			
Features	Powerful Cooling; Multi Airflow for better Air Circulation, Eco-friendly Gas; Low Noise Design, Smart Energy-			

AB

[Handwritten signature]

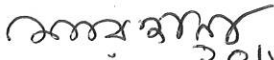
[Handwritten signature]


			Saving Operation, Indoor Temperature LED Display	
		Product certification	ISO 9001 Certified and ISO 14001 Certified	
		Installation including supply of all materials and labor	Supply, installation, testing and Commissioning at designated locations approved by SESIP as per following criteria: <ul style="list-style-type: none"> • Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required. • Supply & installation of suitable size copper refrigerant lines (suction and return) including insulation, elbow, bends, tees, joints, cutting, drilling, fitting, PVC channel setting, drain pipe and all necessary materials along with required electrical and control cabling as per standard practice. 	
		Warranty & services	Electrical Spare Parts: 2 Years; Compressor: 3 Years; Free Service: 3 Years	


Technical Specifications for 3 Ton AC

Item No.	Name of Goods or Related Services	Technical Description, Specifications and Standards		Bidder's Offer
1	Air Conditioner	Brand	Any Reputed Brand (To be mentioned by the Bidder)	
		Model	To be mentioned by the Bidder	
		Country of Origin	To be mentioned by the Bidder	
		Country of Manufacture	To be mentioned by the Bidder	
		Capacity	3.0 Ton, 36,000 BTU/Hour	
		Category	Wall Mounted Split Type Air Conditioner	
		Power source (V/Ø/Hz)	220-240/1/50	
		Cooling input power (kw)	4.02-3.23	
		Indoor airflow rate (M ³ /H)	1400-1,520	
Noise Level (indoor)	Less than 45 dB			

	Noise Level (outdoor)	Less than 57 dB	
	Refrigerant	R410A /R22	
	Energy Rating	3 Star	
	Features	Powerful Cooling; Multi Airflow for better Air Circulation, Eco-friendly Gas; Low Noise Design, Smart Energy-Saving Operation, Indoor Temperature LED Display	
	Product certification	ISO 9001 Certified and ISO 14001 Certified	
	Installation including supply of all materials and labor	Supply, installation, testing and Commissioning at designated locations approved by SESIP as per following criteria: <ul style="list-style-type: none"> • Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required. • Supply & installation of suitable size copper refrigerant lines (suction and return) including insulation, elbow, bends, tees, joints, cutting, drilling, fitting, PVC channel setting, drain pipe and all necessary materials along with required electrical and control cabling as per standard practice. 	
	Warranty & services	Electrical Spare Parts: 2 Years; Compressor: 3 Years; Free Service: 3 Years	


 (Dr. Farhana Begum)
 Assistant Director -2
 Finance and Procurement
 DSHE, Dhaka.


 10/6/19
 (Yeasir Arafat)
 Associate Professor
 Dept. of
 EEE, BUET


 10.06.19
 (Khandaker Azizur Rahman)
 Senior System Analyst
 EMIS Cell, DSHE


 (Prof. Serajul Islam Khan)
 Director
 Finance and Procurement
 DSHE, Dhaka.