Quantities for Renovation for CAD/CAM Lab

Renovation Works:

No.	Item	Quantity	Specification	Unit Price	Total
Alimental works					
1	Aluminum Vertical breaks for inner Space	97.5 m2	M2		
2	Aluminum Doors	8.58 m2	1.3*2.2*3		
3	Aluminum Doors	4.4 m2	1.00*2.2*2		
Ceiling works (Gypsum tiles)					
4	Gypsum tiles for show and management rooms	58.5 m2	M2		
5	Lighting unites for Gypsum tiles	12	.60*.60		
Floor Works					
6	HDF for the laboratory	232.5 m2	M2		
Lab/ Office Furniture					
7	Computer desk	63	1.00*.50		
8	Management desk	2	1.60*.60		
9	Desk Chair	63	.45 width with wheels		
10	Lecture chair	30	.45 width fixed hand cushion		
11	Management chairs	4	.30 width fixed		
12	Management chairs	2	.45 width with wheels		
Electricity works					
16	Ground Power outlet in the computer hall	120	Full with 1.5mm wires		
17	Wall Power outlet in the training hall	7	Full with 1.5mm wires		

18	Wall Power outlet in the reception	4	Full with 1.5mm wires		
19	Lighting unite (4 lamps) in the training hall	29	Full with 1.5mm wires		
20	Lighting unite (3 lamps) in the Computer hall	4	Full with 1.5mm wires		
21	Lighting unite (2 lamps) in the reception	2	Full with 1.5mm wires		
22	Main Electricity distribution panel	1			
23	Switch control panel	2			
24	Ground internet outlet	62	Ground outlet		
25	Wall internet outlet in training hall	4	Wall outlet		
Air Conditioner					
26	Cold air conditioner	4	4-5 HP for the computer hall		
27	Cold air conditioner	1	4 HP for the show room		
28	Cold air conditioner	1	2.5 HP for the training room		

Laboratory dimensions				
No.	Description	Dimensions	Space	Ceiling height
1	Laboratory main Hall	13.25 x 13.25 =	175.56 M2	7.5 M
2	Show Hall	4.47 x 8.10 =	36.2 M2	2.8 M
3	Office room	2.93 x 4.29 =	12.57 M2	2.8 M
4	Distribution Hall and entrance	2.00 x 4.00 =	8.00 M2	2.8 M

Required Equipment for

General Purpose Lab for Faculty of Engineering, Assiut University

No.	Equipment	Specs	Qty.
1	WorkStation	Processor: Intel Xeon W-2123 Quad-core (4 Core) 3.6GHz, 8MB Cache with turbo up to 4.2 GHz Memory: 16 GB DDR Graphic Card: NVIDIA Quadro P2000 5GB Graphics Windows: 10 Pro 64-bit Monitor: 18/21 Inch LED Monitor	2
2	Desktop	Brand: Dell/ HP Processor: 7th Generation Intel Core i7-7700 Processor (8M Cache, up to 4.0 GHz) Memory: 16 GB, DDR4 Hard Drive: 1TB/ 2TB Graphics Card: NVIDIA GeForce, 512MB/ 1GB DDR3 Optical Drive: DVD-RW Drive Monitor: 18/21 Inch LED Monitor Operating System: 10 Pro 64-bit	50
3	Plotter	• Achieve accurate lines, sharp details up to 2400 dpi from the first print with a long-life print head. • Process complex files at high speeds, A1/D prints in 35 seconds, with 1 GB RAM. • Deliver architectural designs, maps, photos, and presentations with consistent, high quality results. • Help reduce downtime and improve productivity. • The intuitive, full-color, 4.3 Inch (109mm) touchscreen simplifies navigation and printing. • Two printers in one, print using the built-in A3/B+ tray and up to A0/E1 on the front loading media roll. • Built in Wi-Fi	2

4	**3D Printer**	**Printer Specifications:** • **Include printing material: 0.5 KG Filament** • **Filament size: 1.75mm Dedicated** • **Top Hotend temperature: 260C (short-term) 240 C (Long-term)** • **Layer Capability: 0.1 mm (100 microns)** • **Build Envelope: 140mm x 140mm x 140mm** • **Filament capabilities: PLA, PVA, Stainless Steel, NinjaFlex, HIPS, WoodFill, LayBrick, CopperFILL, BronzeFill, Carbon Fiber.** • **File Type: STL** • **File transfer: Micro SD card & USB**	**3**
5	**Printer + 3in 1**	**Copy/ Fax/ Printer**	**6**
6	**Software**	**AutoCAD (ACAD): its software use in mechanical, electric, architecture and civil engineering.** **CAD CAM software.**	**1**
7	**TV Screen**	**54 or 65 Inch**	**4**
8	**Data show**	**With full component**	**2**