

**Right To Play Lebanon**

**BOQ  
ELECTRICAL OUTLETS**

Mousawat & Naba'a Centers

March 2022

Mousawat & Naba'a Centers												
ELECTRICAL BOQ												
	Description	Unit	Quantity						Total QTY	Unit Price (\$)	Total Price (\$)	
			Naba'a / Bus center	Naba'a / Ein el Helwe	Naba'a / Naher el Bared	Naba'a / Rashidieh	Mousawat / Bus center	Mousawat / Mar Elias Center				Mousawat / Chatila Center
<b>1</b>	<b>PANEL BOARD</b>											
	Supply and installation of the distribution boards including cabinets, circuit breakers, busbars, connectors, switch-disconnectors, distribution blocks, termination blocks, earth leakage protection devices, insulation monitoring devices, spares and spaces, trunking and wires, ground conductors and accessories from DBs to branches circuit breakers as specified and/or shown on the drawings. All the panelboard components shall be labeled and identified as required by the engineer (Handwriting rejected). The outgoing branch feeders are connected to circuit breakers by insulated flexible wires, running in PVC trunks (with 50% space) and suitable insulated connectors, mounted at the panel bottom. The panel boards have to be assembled for a perfect operation and to the satisfaction of the engineer. Schneider, EATON, ABB or equivalent.											
1.1	SDB	No.	1	1	1	1	1	1	1	7		
1.2	Supply and installation of SDB main breaker in MDB	No.	1	1	1	1	1	1	1	7		
<b>2</b>	<b>MULTICORE CABLE</b>											
	Supply and installation of Cu/PVC/PVC cables, including junction boxes, cable ladders, cable cleats, cable glands, cable sleeves, conduits, liquid-tight flexible conduits (for outdoor and wet areas) where necessary, sealing compound, with all the necessary accessories and fittings, as specified, where shown on drawings and to the satisfaction of the engineer. <u>Low voltage cables</u> Cables Cu/PVC/PVC 600/1000 V, according to IEC 502.											
2.1	3x4mm2 From MDB To SDB	Ls	1	1	1	1	1	1	1	7		
<b>3</b>	<b>LIGHTING OUTLETS</b>											
	Lighting points including wires, rigid and flexible conduits, junction/pull boxes, with all the necessary accessories and fittings from distribution boards to the lighting points. Connections to pull / junction boxes, shall be with conduit coupling (threaded glands).											
3.01	Ceiling outlet for Led Panel	No.	6	4	28	6	6	6	4	60		
3.02	Wall Mounted outlet for emergency light	No.	1	1	1	1	1	1	1	7		
<b>4</b>	<b>LIGHTING FIXTURES</b>											
	Supply and installation of lighting fixtures, as specified, shown on drawings and to the satisfaction of the Engineer. All lighting fixtures to be compensated for power factor > 0.9. Unless indicated otherwise, control gear are to be of the electronic type. The price shall include pull / junction boxes, rigid and flexible conduits, wires, cables, pressure line cap wire connectors, with all the necessary accessories and fittings for the proper connection of the lighting fixture. Connections to pull / junction boxes, shall be with conduit coupling (threaded glands).											
4.01	Ceiling surface mounted Led Panel 60x60 4000K 70W	No.	6	4		6	6	6	4	32		
4.02	Ceiling embedded mounted Round Led Panel 4000K 18W	No.			28					28		
4.03	Wall Mounted emergency light	No.	1	1	1	1	1	1	1	7		
<b>5</b>	<b>SWITCHES</b>											
	Supply and installation of switch complete with conduits and conductors from the corresponding distribution board, derivation and switch boxes, wall plate/cover, junction, connectors, with all the necessary accessories and fittings.											
5.01	10A, 250V, one way one gang switch.	No.	2	2	2	2	2	2	2	14		
5.02	Up/Down switch for motorized screen	No.	1	1	1	1	1	1	1	7		

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<b>6</b>	<b>POWER OUTLETS</b>											
	Supply and installation PVC trunks, cables, rigid conduits, junction/pull boxes, with all the necessary accessories and fittings from distribution boards to the power outlet.											
6.01	Power outlet for AC unit	No.	1	1	1	1	1	1	1	1	7	
6.02	Outlet for Motorized screen	No.	1	1	1	1	1	1	1	1	7	
<b>7</b>	<b>SOCKET OUTLETS</b>											
	Supply and installation of socket outlet complete with conduits and conductors from the corresponding distribution board, derivation and socket boxe, wall plate/cover, junction, connectors, with all the necessary accessories and fittings. Sockets and switches shall have the same brand and model. Sockets shall be Schuko 3 pin type.											
7.01	Wall mounted, single phase, 16 Amps	No.	6	6	6	6	6	6	6	6	42	
7.02	Ceiling mounted, single phase, 16 Amps for projector	No.	1	1	1	1	1	1	1	1	7	
7.03	Wall or ceiling outlet for HDMI cable including cable	No.	4	4	4	4	4	4	4	4	28	
<b>8</b>	<b>GROUNDING</b>											
	Including copper rods, cable clamps, clamps, earth pits, test links, bare copper conductors, and necessary, measurements, accessories and connections											
8.01	Main grounding system including grounding rods, 1x25mm2 bare copper conductor up MDB	No.	1	1	1	1	1	1	1	1	7	
<b>9</b>	<b>DATA &amp; CCTV SYSTEM:</b>											
	Including pvc trunk and exposed heavy gauge rigid PVC conduits, boxes, wiring up to corresponding cabinet, wiring accessories, mechanisms and cover plates, and necessary accessories and connections											
9.01	Wall mounted, RJ-45 cat.6 including UTP-4p cat.6 cable up to existing router including new router	No.	1	1	1	1	1	1	1	1	7	
9.02	Ceiling outlet for camera, including data cable Cat.6 up to data cabinet	No.	2	2	2	2	2	2	2	2	14	
<b>10</b>	<b>MUSIC SYSTEM:</b>											
	Including concealed and exposed conduits, boxes, wiring up to corresponding sound system rack, and necessary accessories and connections, as specified and shown on Drawings.											
10.01	Outlet for sound rack	No.	1	1	1	1	1	1	1	1	7	
10.02	Outlet for wall speaker, including speaker cable 2x1.5mm2 up to sound rack	No.	2	2	2	2	2	2	2	2	14	
<b>12</b>	<b>ELABORATION OF THE SHOP DRAWINGS</b>											
	The contractor shall elaborate new drawings based on the design drawings, showing all the details, exact dimensions and sizes of the approved equipment and material, exact location to the main and public networks, along with detailed sections and elevations. Shop drawings shall be submitted for approval before execution.											
12.01	Elaboration of the Shop Drawings	No.	1	1	1	1	1	1	1	1	7	<i>included</i>
<b>13</b>	<b>ELABORATION OF THE AS BUILT DRAWINGS</b>											
	Before the handing over, the contractor shall submit the As-built Drawings, detailing the final executed works. The as-built drawings shall be backed by digital photos for the embedded installation.											
13.01	Elaboration of the As-Built drawings	No.	1	1	1	1	1	1	1	1	7	<i>included</i>
<b>14</b>	<b>TESTING AND COMMISSIONING</b>											
	The testing and commissioning shall include labor works, tools, instruments and materials, in order to achieve the proper start-up and good running of all the systems. Testing sheets shall be submitted to the consultant for approval.											
14.01	Testing And Commissioning	lot.	1	1	1	1	1	1	1	1	7	<i>included</i>
<b>TOTAL</b>												