Bill of Quantity

Civil- electrical-IT

		First Floor - Estimated Bill of Quantity (Civi	I)			
Item		Description	Unit	Quantity	Unit price	Total Price
		The main apartment wooden door (D1 see index 1) with the dimension of approx. (203cmx112cm) should reinforced with 6mm metal plate from inside, should be provided with metal bar lock too to adequate with the attached technical specifications. (See annex 1A).	No	1	•	
		The side main apartment wooden door (D2 see index 1) with the dimension of approx. (203cmx88cm) should reinforced with 6mm metal plate from inside, should be provided with metal bar lock too and should be provided with an exterior metal burglar protection. (See annex 1B and annex 14).	No	1		
		Remove the glass panels and replace with 6 mm wooden structure for the doors(D4-D5-D6-D7-D8-D9-D10-D11-D12) including any necessary repairs, including painting according to the plan drawing, and index 1-(for D3 annex 10)	m2	9		
Security measures& mitigation	1-1 Doors	Remove the glass panels and replace with 6 mm wooden structure for doors(D3), and supply two wooden panel of 6mm thickness to the upper part of the door, including any necessary repairs, including painting according to the plan drawing, and index 1 and annex 10)	m2	2.3		
		Supply and install additional two wooden doors (D17& D18), similar shape to the current doors, with all required accessories and installations, including painting (according to the plan drawing, and index 2).	No	2		
•		Supply and install additional metal door (D21 two parts, 97x 200 and 40x200cm) with all necessary accessories (according to index 2 and annex 12).	No	1		
		To maintain of the two attics doors with all required accessories including painting according to the plan drawing, and index 1	No	2		
		All locks of the apartment's doors should be checked.	No	Lump sum		
-		Supply and install single shelter resistance film (SRF) (200 microns inside only) for aluminum windows and doors glass (W2-W5-W6-W7-W8-W9-W11-W12-W14) according to the plan drawing and index 4	m²	19		
	1-2 Windows	Supply and install double shelter resistance film (SRF)Vice-versa (200 microns inside and outside) for the front windows and doors glass that facing the street (W1-W3-W4-W10) according to the plan drawing and index 4	m²	27		
		All aluminum sliding doors (W3- W4- W7), according to the plan drawing and index 4) should be provided with frame catcher with all necessary accessories, these aluminum doors will be equipped with steel capture according to annex 3.	No	3		
		All aluminum sliding windows (W2-W6-W8-W9-W10), according to the plan drawing and index 4) should be	No	5		

		provided with frame catcher with all necessary				
		accessories, these windows will be equipped with				
		steel catcher. According to annex 2.				
	-	The aluminum sliding windows (W1), according to the				
		plan drawing and index 4) should be provided with				
		frame catcher with all necessary accessories, this	No	1		
		window will be equipped with steel catcher. According		_		
		to annex 6.				
	-	Install one exterior metal box to (W10, see the plan				
		drawing and index	No	1		
	-	The aluminum sliding door (W7) according to the plan				
		drawing and index3) should be provided with exterior				
			No	1		
		metal burglar protections with all necessary				
	-	accessories, according to (annex 11).				
		All aluminum sliding windows (W2-W6-W8-W9)				
		according to the plan drawing and index3) should be	NO	4		
		provided with exterior metal burglar protections with				
	_	all necessary accessories, according to (annex 11).				
		The aluminum sliding door (W11-W14) according to				
		the plan drawing and index3) should be provided with	No	2		
		exterior metal burglar protections with all necessary				
	-	accessories, according to (annex 14).				
		The aluminum door (W12) according to the plan				
		drawing and index3) should be provided with exterior	No	1		
		sliding metal burglar protections with all necessary				
	-	accessories, according to (annex4).				
		Supply and install aluminum window (W9) approx.	A1 -			
		(100x150cm, according to the plan drawing and index	No	1		
	-	4).				
		Maintenance for all aluminum windows.	No	14		
		Subtotal				
T	3-1 The	e wooden door (D14 see index 1) with the dimension of				
		Ocmx51cm) should reinforced with 6mm metal plate				
		the heaven room. The door should be provided with		1		
		ck too. (See annex 8 and annex 11).				
		ply and install additional sliding reinforced door (D20),				
	-	D7) outside the safe heaven room. The door should be		1		
1-3 Safe heaven	•	th metal bar lock too. (See annex 9).				
room		oply and install additional sliding reinforced window				
	_	nt of (W5) inside the safe heaven room. The door		1		
		rovided with metal bar lock too. (See annex 13).				
	<u>-</u>	e aluminum sliding window (W5) according to the plan				
		l index3) should be provided with exterior metal				
	_	ections with all necessary accessories, according to		1		
	(annex 14).	,				
	,	Subtotal		ı		
T			T.	I		1
		nstall additional metal emergency staircase lead from				
1-4 Metal	_	window (D5) to the back yard in the ground floor.				
emergency		porting metal tube structure (4x4x0.3cm), including	Kg	460		
staircase		erials and all required works, according the plan				
	drawings. ap					
	4-2 Supply a	and install supporting metal tube structure/L shape/			<u> </u>	

(4x4x0.3cm), supporting the staircase body, including labors, materials and all required works, according the drawings, approx. weight (100kg). 4-3 The metal plates (3mm) as stairs (dimension: 90x20cm) including labors, materials and all required works, according the drawings. 4-4 The rail tube (3x3x0.2), including labors, materials and all required works, according the plan drawings. (See the plan).		
Subtotal		

	Meta	al staircase Ind	ex 5				
		Metal tube					
Item	Description	Dimensions mm	Thickness mm	Length M	Weight Kg	Unit price	Total price
8-1	Supply and install supporting metal tube structure/L shape/, including labors, materials and all required works, according the drawings	40x40	3m.m	57	100		
8-2	Supply and install supporting metal tube structure, including labors, materials and all required works, according the drawings Metal pla	40x40	3m.m	63	220		
		ates					
8-3	Supply and install metal plates as stairs, including labors, materials and all required works, according the drawings		3m.m	10m2	240		
8-4	Supply and install metal plates, as double layers for walls and ceiling of the staircase body including labors, materials and all required works, according the drawings		6m.m	72m2	6912		
8-5	Ceiling extension	Length	Width	Thickness	Area		
	-	M	m	cm	m2		
	Supply and install additional part steel & cement as an extension ceiling to the ground floor next to the metal staircase with a thickness of 20 cm according to the plan drawing and section drawing.	3	1.5	30	4.5		
8-6	Pa	inting					
8-6-1	Painting Works for walls, ceiling, and the supporting tubes, including labors, materials and all required works, oil paint (semi-gloss) for all flat walls, ceiling and supporting tubes, two painting coats (interior& exterior).	150m2	-	-	-		
8-7	Stairs	dressing	<u> </u>	I	I		
8-7-1	Supply and install the stairs dressing with marble shits (thickness of 20m.m)including labors, materials and all required works, according the drawings	18m2	-	-	-		
	Subtotal	price		ı	ı		

		Index 6			
		Fire alarm system			
Symbol	Item	Description	Quantity	Unit price	Total Price
		The fire alarm system will contain detector units in each and every room and closed space in the apartment (see annex 16) and they are as follows:	-	-	-
Н	Heat detector	In main kitchen space	1		
S	Smoke detector	In all spaces (according to annex 16)	6		
М	Manual alarm button	As shown in the main first floor (annex 16)	2		
х□	Siren with flashes	Located inside the first floor as described and shown in the first floor plan.	1		
х□	Siren with flashes	Located in the security guards control room in the ground floor plan.	1		
	1	CCTV system			
∢ıc	Indoor cameras	The places as described and shown in the main floor plan (annex 16). All technical specifications of the cameras will be detailed in the IT sheet of requirements.	7		
∢ oc	Outdoor cameras	The places as described and shown in the main floor plan (annex 16). All technical specifications of the cameras will be detailed in the IT sheet of requirements.	6		
		Outdoor Projectors led light	_		
	located as descr 16). All project convenient switc	r projectors led light (50 w) should be provide and ribed and shown in the main floor plan and annex fors light will be connected and controlled by the h breakers that will be supplied and installed in the guards control room in the ground floor.	7		
	l	Subtotal price	1		ll .

		Civil work				
Item	Title	Description	Unit	Quantity	Unit price	Total price
		Painting Works for walls and ceiling including labors, materials and all required works, oil paint (semi-gloss) for all flat walls two coats including touch up by putty with all work needed, especial treatment for the damaged spots in the walls	m²	400		
	1-1 Painting	Painting works for roller shutter including labors, materials and all required works.	pieces	9		
		Supply and install Fixed gypsum board for wall with metal support structure according to the plan drawing	m²	85		
	1-2 Additional	Supply and install additional convenient ceramic skirt fixed to the new gypsum wall (two sides) in the kitchen	М	11		
	gypsum board walls in kitchen and salon	Supply and install additional convenient marble skirt fixed to the new gypsum wall (two sides) in salon	М	28		
	3- remove	the glass within the balcony`s railings.	-	Lump sump		
Architecture	three ceiling ope	wo metal plate layers of 6mm thickness to the enings. ne plan and Annex 7).	m²	4.5		
		4-1 Supply and install Fixed gypsum board as a wall with metal support structure to close the slot of door (D16) according to the plan drawing	m²	1.5		
	5- kitchen	4-2 Peeling off and modifying the existing kitchen basin and the kitchen closet, according to the plan drawing.	-	Lump sump		
		4-3 Peeling off and excavation works of the existing concrete edge under the kitchen window	m 3	0.5 m3		

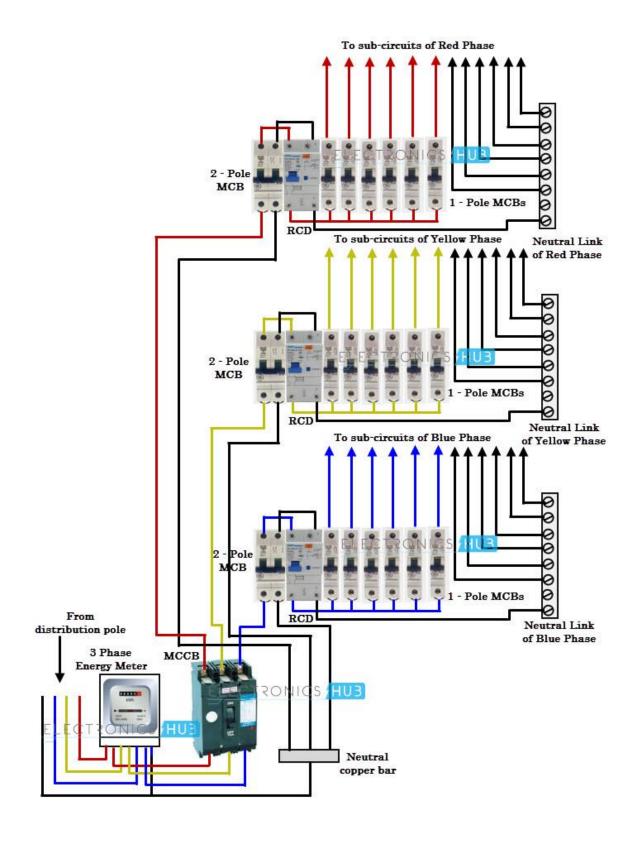
		(D9) (see the current plan drawing).				
		4-4 Check and repair the existing drainage system on the apartment/ when necessary/.	-	Lump		
		Supply and install water system (PEX tubing) outlets valve fitting, in kitchen with all necessary accessories.	-	Lump sump		
		4-5 Supply and install waste water System (PVC pipes) and all required accessories and installation	-	Lump		
	5 Light device	5-1 supply and install the necessary circle ceiling Lighting device in every indoor space and staircase, 220V 2x26W installed in ceiling-Flash Power Save lamp with all accessories.	Pieces	17		
		6-1 Supply and install two A.C. split system unit (1800 BTU) in saloon.	Pieces	2		
	6 Air conditioning	6-2 Cleaning the indoor and the outdoor units of the central air conditioning system.	-	Lump sump		
		6-3 Cleaning the indoor and the outdoor units of the air conditioner split unit.	-	1		
	7 ventilation	7-1 Supply and install Ventilation Industrial fan for safe heaven room with all required electrical installation.	Pieces	1		
		7-2 Supply and install Ventilation Industrial fan for kitchen and two bathrooms with all required electrical installation.	Pieces	3		
Subtotal price						1

			Index 7- Electrical Sow		
Total Price	Unit Price	Qty.	Description	Item	No.
		1	 Capacity not less than 36 MCB circuit breakers. Eaton/ Moeller, Legrand, Hager or equivalent Wall mounted / indoor. Transparent impermeable cover. Place for labeling each breaker. Layout as per attached drawing. Installed below the existing Main Distribution Board. 	Main Distribution Board	1
		3	-Phase Indication Light. -To be installed in the new Main Distribution Board.	Phase Indication Lights	2
		1	 - Eaton/Moeller, Legrand, Hager or equivalent - MCCB 60-63A – Three Pole. -To be installed next to the 3-Phase Energy Meter. 	Circuit Breaker	3
		3	 Eaton/Moeller, Legrand, Hager or equivalent MCB 60-63A – 2-Pole. To be installed in the new Main Distribution Board. 	Circuit Breaker	4
		3	 Eaton/Moeller, Legrand, Hager or equivalent 60-63A – 2-Pole. 30 mA Trip Current. To be installed in the new Main Distribution Board. 	RCD	5
		11	 Eaton/Moeller, Legrand, Hager or equivalent MCB 20A - SP To be installed in the new Main Distribution Board. 	Circuit Breaker	5
		25	 - Eaton/Moeller, Legrand, Hager or equivalent - MCB 25A - SP - To be installed in the Main Distribution Board. 	Circuit Breaker	6
		3	-15 KVA single phase Automatic Voltage Regulator (220 VAC – 50 Hz). -Al-Hadara or equivalent.	Automatic Voltage Regulator	7

		-LCD display (Voltage, Current, etc.).		
		-OFF/By-pass Switch.		
		-Installation place to be determined during site		
		survey.		
		-To be installed between the 3 Phase MCCB 60-		
		63A and the 2-pole 60-63A MCB's.		
		T	Wall sockets	
		-Preferable EU origin.		
	60	-Wall mounted.	Schuko	8
	68	-Grounding clips.		Ü
		-To be installed as per the apartment layout		
		drawing.		
		-Hosh Blas NYY Cables:	Power cables	
	To be	-3x2.5 mm2, 3x4mm2, 3x16mm2.etc		
	determined	-To be connected between every 25A circuit		
	by	breaker installed in the main distribution board		
	contractor	and every 4 x Schuko sockets as per the		9
	upon site	attached layout.		
	survey in	-To be connected between every 20A circuit		
	agreement	breaker installed in the main distribution board		
	with UNDP	and every AC, IT cabinet and Fire System		
		locations as per the attached layout.		
	To be	-Sizes to be determined by the contractor to fit	PVC Conduits	
	determined	all power cables, IT and phone cables		
	bv	connected to every room as per the attached		
	contractor	layout.		10
	upon site	,		10
	survey in			
	agreement			
	with UNDP			
		-Old and new Main Distribution Boards to be	Genset connection	11
	1	connected also to the ATS output of the Genset.		11
	To be	-Existing Ground for the apartment below shall	Grounding net	
	determined	be tested by the contractor. In case the	3 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	
	by	resistance measured lies between 0.5 Ohm and		
	contractor	5 Ohm the ground of the new apartment can be		12
	upon site	connected to the existing one. Otherwise a		12
	survey in	new grounding net has to be established.		
	agreement	Them 5. outliding flet has to be established.		
	with UNDP			
	WICH ONDE	-Shall be from a well-known manufacturer.	Air Conditioners	
		-Cold and Hot Air Conditioning.	(Split-Units)	4.0
 	2	-18000 BTU / 1.5 Ton.	(Spiit-Oilits)	13
	_		i	
	_			
	-	-Silent Operation. Subtotal price		

Terms and Conditions:

- 1. Site Visit is mandatory for anybody who wants to participate in the electricity part of the tender.
- 2. All items provided should have a one Year warranty.
- 3. Printed labels for all breakers in the new and old Distribution Boards indicating the room numbers and items connected shall be provided.
- 4. Lighting, Kitchen, Bathrooms, Central Air Conditioning unit and all non-Schuko sockets shall be connected to the existing Main Distribution Board.
- 5. Contractor has to inspect the existing electricity network and conduct any needed maintenance or replacement of faulty cables, switches or sockets connected to the existing Main Distribution Board.
- 6. Electrical works shall not exceed 2 weeks.
- 7. All electrical works will be supervised by a UNDP engineer in order to meet all the needed requirements related to modifications and or additions.



			Index8- IT works		
Total Price	Unit Price	Qty	Description	Item	
		1	-24U -Preferable EU origin made -Has a transparent impermeable cover with lock and key -Equipped with fan and two multi socket power -Shelf included	Communication Cabinet	1
		2	-Brand 3M -RJ45 48 ports cat 6 -To be installed in the communication cabinet	Patch Panel	2
		2	-Brand: Cisco 24 ports switch -24 10/100 Ethernet ports -2 10/100/1000 Ethernet ports -2 POE ports -To be installed inside the communication cabinet	Network switch	3
		100	-Brand: 3M -1m length - cat 6	Patch cord cables	5
		27	-Brand: 3M -Includes one RJ45 jack and one RJ11 jack -Includes two labeling area -The RJ45 and RJ11 jacks should be frontal (not facing the ceiling or the ground) -To be installed as per the drawing	Voice& Data wall outlet	6
		12	-Brand: 3M -Includes one RJ45 jack - The RJ45 jack should be frontal (not facing the ceiling or the ground) -To be installed as per the drawing	Data wall outlet	7
		To be determined by contractor upon site survey	-Cat 6 STP -To be connected and terminated to the patch panel from one side and to data outlets from the other side as per the drawing	Data cables	8
		To be determined by contractor upon site survey	-Brand: 3M -Cat 6 STP (Cable for each outlet) -To be connected and terminated to the voice patch panel from one side and to voice outlets from the other side as per the drawing	Phone cables	9
		To be	-Made of good plastic quality	Conduits	10

determined	-Sizes to be determined by the contractor to fit all		
by contractor	data & phone cables extended to every data/voice		
upon site	outlet as per the drawing		
survey			
2	-Cat 6 SFTP to be extended between both 2 nd floor	Ethernet Cable	11
	communication cabinet and 1st floor 's cabinet		
1 cable with	- 32 or 48 Pair cable to be connected between both	Voice cable	12
approximately	communication cabinet 's voice patch panel and 1st		
80m length	floor 's voice patch panel		
2	-Brand: Cisco	Wireless Access point	13
	-2.4 GHz		
	-Type: indoor		
	-POE		
	-802.11 bgn		
	-Features: DHCP,MAC filtering,WPA,WPA2,WEP		
	-Multiple SSID		
	-Support Vlan		
	-Operational modes: AP, WDS, Wireless bridge		
	-Preferable US brand		
	-To be installed as per the drawing		
1	-Type: Online	1 KVA UPS	14
	-Form factor: Rack mounted		
	-Preferable US or EU origin		
	-To be installed in the communications cabinet		
Please refer	-Fixed dome	Indoor camera	15
to security	-Color		
Section for	-Lenses: 6 mm		
the quantity	-Resolution: 700 TVL		
and location	- 25fps		
	-No audio		
	-Motion detection		
	-IR: range 45ft ,work in total darkness		
	-Day/night vision: Auto switch between night and day		
	mode		
	-Connectivity: BNC		
	-Motion detection support		
Please refer	Outdoor with wall/ceiling mount kit	Outdoor camera	16
to security	-Color		
Section for	-Lenses: 2.6-12 mm		
the quantity	-Weather Proof		
and location	- Resolution: 700 TVL		
	- 25 fps		
	- No audio		
	- Motion detection		
	- IR: range 45ft ,work in total darkness		
	- Day/night vision: Auto switch between night and day		
	mode		

	- Connectivity :BNC - Motion detection support		
To be determined by contractor upon site survey	-Combined Data & power -To be extended between 1st floor 's DVR and outdoor/indoor cameras	Camera Power and data cables	17
1	-Capacity should be sufficient to support 15 cameras -To be installed in 1 st floor cabinet	Power Unit	18
	Subtotal price		•

General Terms and Remarks:

- 1. The delivery time for finalizing all IT and electricity works is 5 weeks from day of signing the contract
- 2. All IT equipment provided should have a one Year warranty
- 3. Printed labeling for all breakers in the main switch board having Room and device indicated
- 4. Printed labeling for the patch panel, patch cords, cameras, Access pints and all data & voice outlets
- 5. Cameras 's locations could be adjusted if needed
- 6. Contractor is required to provide weekly progress report on all items
- 7. Contractor might advise on solutions that reduces cables and conduits 's quantities

UNDP

First Floor

Electrical & IT Annex 15

AP Access Point

VD Voice & Data Outlet
D Data Outlet
DC Data Cabnet

Schuko Socket
Airconditioner
1800 BTU 4

