

UN-HABITAT Right Side Mosul Low Cost House Unit		
Summary Bill of Quantities for 3 Blocks Type C		
No.	Item Description	Total Price (\$)
1	Total price for Structural Works for 3 block (Type C)	
2	Total price for Architectural Works for 3 block (Type C)	
3	Total price for Electrical Works for 3 block (Type C)	
4	Total price for Sanitation Works for 3 block (Type C)	
Total Price for all Works		

UN-HABITAT Right Side Mosul Low Cost House Unit

Bill of Quantities for Structural Works for Type C

No.	Item Description	Unit	Qty	Unit Price (\$)	Total Price (\$)
A	Soil Works:				
1	Earth work in excavation in foundation, trenches, road etc. in all soils to reach foundation level, including dressing the sides, trimming and preparing the bed for foundation, de-watering, including refilling the excavated stuff around the foundation, watering, consolidating etc. complete as per drawing, specification and instruction of the Engineer-in-charge.	m ³	896		
2	Backfilling works for excavated areas using sub base according to the drawings, general notes and conditions and supervisor approval.	m ³	2,050		
B	Concrete Works:				
1	Plain in-situ lean concrete grade C8 in foundations poured against earth. complete as per drawing, specification and instruction of the Engineer-in-charge.	m ³	28		
2	Plain in-situ concrete grade C12 in floor bed, poured against earth. complete as per drawing, specification and instruction of the Engineer-in-charge.	m ³	67		
3	Reinforced in-situ concrete grade C25 in foundations, , beams and slabs. The works include steel reinforcement works, formwork, Ditto - pads, mild steel links reinforcement bars,ect. complete as per drawing, specification and instruction of the Engineer-in-charge.	m ³	1,013		
4	Reinforced in-situ concrete grade C30 in columns. The works include steel reinforcement works, formwork, Ditto -pads, mild steel links reinforcement bars,ect. complete as per drawing, specification and instruction of the Engineer-in-charge.	m ³	101		
Total Price for one Block Type C					
Total Price for three Blocks Type C					

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Bill of Quantities for Architectural Works for (Type C)

No.	Item Description	Unit	Qty	Unit Price (\$)	Total Price (\$)
A.	Block Works:				
1	Supply and installation of block works for exterior walls by using hollow concrete blocks (20x20x40)cm with ordinary cement mortar (1:3) for joints, include fixing windows and doors.	m ²	3,500		
2	Supply and installation of block works for interior walls by using hollow concrete blocks (15x20x40)cm with ordinary cement mortar (1:3) for joints, include fixing windows and doors.	m ²	1,850		
B.	Plaster Works:				
	Cement Plaster Works:				
1	A Supply and installation of cement plaster for toilet walls using cement and sand plastering with ratio of (1:3), making straight and smooth facing, with clear edges and corners, with spacing not more than(1) meter for walls.	m ²	2,442		
	B Supply and installation of cement plaster for toilet and exterior corridor ceiling using cement and sand plastering with ratio of (1:3), making straight and smooth facing, with clear edges and corners, with spacing not more than(1) meter for walls.	m ²	2,439		
	c Supply and installation of cement plaster works for exterior façade using cement and sand plastering with ratio of (1:3), making straight and smooth facing, with clear edges and corners, with spacing not more than(1) meter for walls.	m ²	1,595		
C.	Gypsum Plaster Works:				
2	A Supply and installation of gypsum plaster for interior walls taking into consideration the verticality and alignment according to the technical specification using beads every (70-80) cm with all that is required to make the job complete in every part and detail as per the instruction of the supervisor engineer.	m ²	6,484		
	B Supply and installation of gypsum plaster for ceiling taking into consideration the verticality and alignment according to the technical specification using beads every (70- 80) cm with all that is required to make the job complete in every part and detail as per the instruction of the supervisor engineer.	m ²	2,671		
D.	Paint Works with Emulsion and Oil paints:				
1	Supply and installation of paint works for exterior façade.	m ²	1,595		
2	Supply and installation of paint works for bathroom walls.	m ²	2,442		

E.	Concrete and Ceramic Works:				
1	Supply and installation of mosaic floor tiling (30*30 cm) with skirting and fixing with mortar works for all levels except the roof level.	m ²	2,621		
2	Supply and installation of mosaic floor tiling (30*30 cm) works for stair tiling and fixing with mortar works (tile 30*30 cm).	m ²	93		
3	Supply and installation of material burushed finish concrete surface for ramp , thickness 15cm with BRC (20*20)cm ready mix grade 25C.	m ²	18		
F.	Handrail Woks:				
1	Supply and installation of metal handrail works for stairs with epoxy paint layers and all needed works for fixing.	M.L	96		
2	Supply and installation of metal handrail works for lobby (open area)with epoxy paint layers and all needed works for fixing.	M.L	200		
G.	Door Works:				
1	Supply and installation of matel doors with frame with dimentions of (105*200) cm.The price includes supplying and fixing of all required locks, hinges...etc	unit	56		
2	Supply and installation of matel doors with frame doors with dimensions (100*200) cm.The price includes supplying and fixing of all required locks, hinges...etc	unit	98		
3	Supply and installation of PVC hinged doors with frame with dimensions (80*200) cm.The price includes supplying and fixing of all required locks and hinges ... etc.	unit	44		
4	Supply and installation of PVC hinged doors with frame with dimensions (100*200) cm.The price includes supplying and fixing of all required locks and hinges ... etc.	unit	4		
H.	Window Works:				
1	Supply and installation of PVC windows with the frame accessories with dimensions (120*100) cm. The price includes supplying and fixing of all required handles and hinges.	unit	192		
2	Supply and installation of PVC(blurred glass window) windows with the frame accessories with dimensions (60*40) cm.The price includes supplying and fixing of all required handles and hinges.	unit	48		
I	Waterproofing System:				
1	Supply and apply Water Proofing Materials for roof, by applying one primer layer, two layers from ELASTIC ACRYLIC WATERPROOFING EMULSION materials.	unit	872		
J	Exit signage and fire extinguishers:				
1	Supply and installation of exit signage(material plexy) for the building main entrance and exits.	QTY	8		
2	Supply and installation of fire extinguishers (12 kg) for one block.	QTY	24		
Total Price for (Type C)					
Total Price for Three blocks					

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Bill of Quantities for Electrical Works for Type C Block

No.	Item Description	Unit	Quantity	Unit Price	Total Price
1	Providing and installing distribution boards DB5-1..DB5-2, with all needed accessories, cables and conduits.	NO	2		
2	Providing and installing the SDB for each unit, with all accessories.	NO	48		
3	Providing , installing and Connecting the DB board to the SDB housing board by Cable - CU / Type NYY - Sec. 3x6mm ² . With all needed accessories, cables and conduits.	M.L	1,350		
4	Providing , installing and Connecting the DB board to the SDB housing board by Cable - CU / Type NYY - Sec. 3x10mm ² . With all needed accessories, cables and conduits.	M.L	520		
5	Providing and installing ceiling LED light fixture 220V/18W. With all needed accessories, cables 3C-1.5mm ² and conduits 20 mm diam.	NO	556		
6	Providing and installing emergency light fixture 2*18 W.with all needed accessories, cables 3C-1.5mm ² and conduits 20 mm diam.	NO	8		
7	Providing and installing ceiling LED light fixture 220V/8W . With all needed accessories, cables 3C-1.5mm ² and conduits 20 mm diam.	NO	96		
8	Providing and installing ceiling LED light fixture 220V/18W single tube . With all needed accessories, cables 3C-1.5mm ² and conduits 20 mm	NO	96		
9	Providing and installing Single light switch - 10 amp . With all needed accessories, cables 3C-1.5mm ² and conduits 20 mm diam.	NO	192		
10	Providing and installing double light switch - 10 amp . With all needed accessories, cables 3C-1.5mm ² and conduits 20 mm..	NO	96		
11	Providing and installing Power outlet 220V - 13A. With all needed accessories, cables 3C-2.5mm ² and conduits 20 mm diam.	NO	384		
12	Providing and installing TV Socket. With all needed accessories, coaxial cables and conduits 20 mm diam.	NO	48		
13	Providing and installing Electrical Point for Water Heater 3000W . With all needed accessories, cables 3C-4 mm ² and conduits 25 mm diam.	NO	48		
14	Providing and installing stand alone smoke detectors.	NO	54		
Total Electrical works for One Block					
Total Electrical works for Three Blocks					

UN-HABITAT Right Side Mosul Low Cost House Unit

Bill of Quantities for Type C Sanitary Fixtures Works

No.	Item Description	Unit	Quantity	Unit Price	Total Price
Supply, Install, Connect and Test the Following Sanitary Fixtures Complete with Mixers,Angle Valves, Flexible					
1	Toilet seat, water tap with rinser, all related accessories	NO	48		
2	Ceramic pedestal washbasin with water mixer and all related accessories.	NO	48		
3	Shower tray with all related accessories.	NO	48		
4	kitchen sink with water mixer and all related accessories.	NO	48		
To Collection					

Bill of Quantities for Drainage Works

No.	Item Description	Unit	Quantity	Unit Price	Total Price
Supply, Lay, Connect and Test the Following Pipes Including all Necessary Fixing Accessories and Fittings Complete					
A	Drain pipe (UPVC) :				
1	6" diameter	m	96		
B	Drain pipe laid under tile and in wall (UPVC) :				
1	4" diameter.	m	96		
2	3" diameter.	m	144		
3	2" diameter.	m	104		
To Collection					

Bill of Quantities for Rain water pipe Works

No.	Item Description	Unit	Quantity	Unit Price	Total Price
Rain water pipe laid under tile, in shaft and in wall (UPVC) :					
1	4" diameter.	m	96		
1	3" diameter.	m	16		
To Collection					

Bill of Quantities for Supply ,Install and Test Fitting Works (all fittings for water supply will be Pex All Pex press fittings, or equivalent)

No.	Item Description	Unit	Quantity	Unit Price	Total Price
Supply, Install and Test the Following Fittings Complete as Shown on Drawings					
1	4" diameter floor drain, type FD-1.	NO	48		
2	Ditto, but 3" diameter	NO	96		
3	4" diameter roof vent cap, type RVC (UPVC).	NO	24		
4	4" diameter roof drain, type RD (UPVC).	NO	8		
5	Ditto, but 3" diameter	NO	4		
To Collection					

Bill of Quantities for Valves, Fittings, and Accessories Works

No.	Item Description	Unit	Quantity	Unit Price	Total Price
Supply, Install and Test the Following Complete with all Necessary Valves, Fittings, and Accessories:					
1	Triple layer PE cold water tank, 1m ³ capacity complete with all supports, fill valves, discharge valve, float valve, drain valve and overflow connection with all fittings and accessories.	NO	48		
To Collection					0

Bill of Quantities for Water Heater Works

No.	Item Description	Unit	Qty	Unit Price	Total Price
A Supply, install, connect and test the following water heaters complete with all necessary fittings and					
1	Electric water heater horizontal or vertical type EWH-1, 100 liter capacity, electric heater 2 kw,complete with all valves and accessories.	NO	48		
Supply, lay, connect and test the following pipes including all necessary accessories, flexible connections and fittings					
B Cold water pipe in wall, in shaft , and under tile (polypropylene) complete.					
1	32 mm diameter.	m	2,100		
2	25 mm diameter.	m	960		
C Hot water pipe in wall, and under tiles (polypropylene) complete with 12mm rubber foam insulation.					
1	25 mm diameter.	NO	960		
D Supply, Install and Test the Following Fittings Complete as Shown on Drawings:					
1	32 mm diameter concealed valve	NO	48		
2	Ditto, but 25 mm diameter	NO	48		
To Collection					
Total Price for one block - Type C					
Total Price for Three blocks - Type C					

c									
New									
Concrete	Type	Name	L	W	H	Qty	Volume/ cm ³	Volume/ m ³	Total
C25	Foundation	F1	130	130	50	18	15,210,000	15.21	113.93
		F2	220	160	50	22	38,720,000	38.72	
		F3	250	200	50	24	60,000,000	60	
	Beams/ floors	B*	20	50	1,980	3	5,940,000	5.94	876.4332
		B 20*60	20	45	21,180	4	76,248,000	76.248	
		B 20*50	20	35	23,670	4	66,276,000	66.276	
		GB 20*100	20	100	52,040	1	104,080,000	104.08	
		GB4 20*110	20	110	1,860	1	4,092,000	4.092	
		B 20*50 (STAIRS)	20	50	1,550	2	3,100,000	3.1	
		slab	T17	1	2,291,000	17	4	155,788,000	
	T15		1	7,431,700	15	4	445,902,000	445.902	
	SLAB ABOVE STAIRS		340	260	15	2	2,652,000	2.652	
	stairs	stairs	130	30	17	96	6,364,800	9.5472	
		landing	120	260	15	6	2,808,000	2.808	
C30	Columns	C1 (STAIRS)	80	20	230	8	2,944,000	2.944	101.248
		C1 & C2	80	20	960	64	98,304,000	98.304	
C8	lean concrete	F1	150	150	10	18	4,050,000	4.05	27.81
		F2	240	180	10	22	9,504,000	9.504	
		F3	270	220	10	24	14,256,000	14.256	
C12	SLAB IN GROUND	T10	1	7683900	10	1	76,839,000	66.0218	66.0218
C25	WALK WAY INSIDE	T 10	1	2292000	10	1	22,920,000	22.92	22.92