

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

UN-HABITAT Right Side Mosul Low Cost House Unit

Bill of Quantities for Structural Works for Type D

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	798		
2	Backfilling works for excavated areas using sub base according to the drawings, general notes and conditions and supervisor approval.	m ³	1,308		
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	22		
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	66		
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	744		
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	77		
Total Price for one Block Type D					

UN-HABITAT Right Side Mosul Low Cost House Unit

Bill of Quantities for Architectural Works for (Type D)

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	2,750		
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	1,453		
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	1,750		
	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	1,728		
	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	1,393		
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	4,957		
	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	1,836		
D.	Paint Works with Emulsion and Oil paints:				
1	Supply and installation of paint works for exterior façade.	m ²	1,728		
2	Supply and installation of paint works for bathroom walls.	m ²	1,750		

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	1,872		
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	66		
3	Supply and installation of material brushed finish concrete surface for ramp , thickness 15cm with BRC (20*20)cm ready mix grade 25C.	m ²	18		
F.	Handrail Works:				
1	Supply and installation of metal handrail works for stairs with epoxy paint layers and all needed works for fixing.	M.L	71		
2	Supply and installation of metal handrail works for lobby (open area) with epoxy paint layers and all needed works for fixing.	M.L	168		
G.	Door Works:				
1	Supply and installation of metal doors with frame with dimensions of (105*200) cm. The price includes supplying and fixing of all required locks, hinges...etc	unit	42		
2	Supply and installation of metal doors with frame doors with dimensions (100*200) cm. The price includes supplying and fixing of all required locks, hinges...etc	unit	74		
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	32		
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	144		
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	36		
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	6		
2	Supply and installation of fire extinguishers (12 kg) for one block.	QTY	18		
Total Price for (Type D)					

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Bill of Quantities for Electrical Works for Type D 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	36		
3	Providing , installing and Connecting the DB board to the SDB housing board by Cable - CU / Type NYY - Sec. 3x6mm . With all needed accessories,cables and conduits.	M.L	1,350		
4	Providing and installing ceiling LED light fixture 220V/18W. With all needed accessories, cables 3C-1.5mm2 and conduits 20 mm diam.	NO	414		
5	Providing and installing emergency light fixture 2*18 W.with all needed accessories, cables 3C-1.5mm2 and conduits 20 mm diam.	NO	6		
6	Providing and installing ceiling LED light fixture 220V/8W . With all needed accessories, cables 3C-1.5mm2 and conduits 20 mm diam.	NO	72		
7	Providing and installing ceiling LED light fixture 220V/18W single tube . With all needed accessories,cables 3C-1.5mm2 and conduits 20 mm diam.	NO	72		
8	Providing and installing Single light switch - 10 amp . With all needed accessories, cables 3C-1.5mm2 and conduits 20 mm diam.	NO	144		
9	Providing and installing double light switch - 10 amp . With all needed accessories, cables 3C-2.5mm2 and conduits 20 mm..	NO	72		
10	Providing and installing Power outlet 220V - 13A. With all needed accessories, cables 3C-2.5mm2 and conduits 20 mm diam.	NO	288		
11	Providing and installing TV Socket. With all needed accessories, coaxial cables and conduits 20 mm diam.	NO	36		
12	Providing and installing Electrical Point for Water Heater 3000W . With all needed accessories, cables 3C-4 mm2 and conduits 25 mm diam.	NO	36		
13	Providing and installing stand alone smoke detectors.	NO	40		
Total Electrical works for One Block					

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Bill of Quantities for Type D 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,					
1	Toilet seat, water tap with rinser, all related accessories	NO	36		
2	Ceramic pedestal washbasin with water mixer and all related accessories.	NO	36		
3	Shower tray with all related accessories.	NO	36		
4	kitchen sink with water mixer and all related accessories.	NO	36		
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					
A	Drain pipe (UPVC) :				
1	6" diameter	m	72		
B	Drain pipe laid under tile and in wall (UPVC) :				
1	4" diameter.	m	72		
2	3" diameter.	m	108		
3	2" diameter.	m	78		
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	72		
1	3" diameter.	m	12		
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	36		
2	Ditto, but 3" diameter	NO	72		
3	4" diameter roof vent cap, type RVC (UPVC).	NO	18		

4	4" diameter roof drain, type RD (UPVC).	NO	6		
5	Ditto, but 3" diameter	NO	3		
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, 1m3 capacity complete with all supports, fill valves, discharge valve, float valve, drain valve and overflow connection with all fittings and accessories.	NO	36		
To Collection					
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					
1	Electric water heater horizontal or vertical type EWH-1, 100 liter capacity, electric heater 2 kw,complete with all valves and accessories.	NO	36		
Supply, lay, connect and test the following pipes including all necessary accessories, flexible connections					
B	Cold water pipe in wall, in shaft , and under tile (polypropylene) complete.				
1	32 mm diameter.	m	1,575		
2	25 mm diameter.	m	720		
C	Hot water pipe in wall, and under tiles (polypropylene) complete with 12mm rubber foam				
1	25 mm diameter.	NO	720		
D	Supply, Install and Test the Following Fittings Complete as Shown on Drawings:				
1	32 mm diameter concealed valve	NO	36		
2	Ditto, but 25 mm diameter	NO	36		
To Collection					
Total Price for one block - Type D					

D									
New									
Concrete	Type	Name	L	W	H	Qty	Volume/ cm3	Volume/ m3	Total
C25	Foundation	F1	130	130	50	14	11,830,000	11.83	86.59
		F2	180	140	50	22	27,720,000	27.72	
		F3	210	160	50	28	47,040,000	47.04	
	Beams/ floors	B*	20	50	1,980	2	3,960,000	3.96	633.8325
		B 20*60	20	45	21,180	3	57,186,000	57.186	
		B 20*50	20	35	23,670	3	49,707,000	49.707	
		GB 20*50	20	50	52,040	1	52,040,000	52.04	
		GB 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 ABOVE STAIRS	340	260	15	2	2,652,000	2.652	
	slab	T17	1	2,291,000	17	3	116,841,000	116.841	
		T15	1	7,431,700	15	3	334,426,500	334.4265	
		stairs	130	30	17	80	5,304,000	7.956	
	stairs	landing	120	260	15	4	1,872,000	1.872	
C30	Column	C1 & C2	80	20	720	64	73,728,000	73.728	76.672
		C (STAIRS)	80	20	230	8	2,944,000	2.944	
C8	lean concrete	F1	150	150	10	14	3150000	3.15	21.782
		F2	200	160	10	22	7040000	7.04	
		F3	230	180	10	28	11592000	11.592	
C12	SALB IN GROUND	T10	1	7683900	10	1	76839000	65.6126	65.6126
C25	WALK WAY INSIDE	T 10	1	2292000	10	1	22920000	22.92	22.92