

Bill of Quantity (A) Ground Floor

DEMOLITION:

N.B

The contractor is required to visit the site and inspect very carefully the existing buildings required for demolition and obtain for himself such additional information as he may deem necessary to accurately price the JOB in this work as to further claims will be admitted on grounds of lack of knowledge.

Item	Description	Unit	Quantity	Unit price	T. Cost
	<p>The following in demolition works of the existing buildings situated in the area hatched in dotted red lines in drawing A-1.</p> <p>1. Demolish all buildings numbered from 1-7 with the following areas:-</p> <p>a. Building Bo. 1</p> <p>b. Building Bo. 2</p> <p>c. Building Bo. 3</p> <p>d. Building Bo. 4</p> <p>e. Building Bo. 5</p> <p>f. Building Bo. 6</p> <p>g. Building Bo. 7</p> <p>Removal of all trees which are to be found in the area. The buildings to be offices, stores and other building in the area including boundary walls, division wall ...etc.</p> <p>The existing buildings are generally built of:-</p> <p>1. Walls are built in brick works, in lime or P.C mortar and plastered internally.</p> <p>2. Pavior are partly concrete flooring and partly P.C tiles.</p> <p>3. Roofs are partly reinforced concrete and partly corrugated iron roofing with timber</p>	<p>Job</p> <p>M²</p> <p>M²</p> <p>M²</p> <p>M²</p> <p>M²</p> <p>M²</p> <p>M²</p> <p>M²</p>	<p>140</p> <p>200</p> <p>165</p> <p>85</p> <p>170</p> <p>100</p> <p>360</p>		

	<p>rafters and purling ..ect. The arising generally consists of:-</p> <ul style="list-style-type: none"> a. Roofing materials G.C.I sheeting, timber rafers, purling, morsel tiles... ect. b. Doors and windows. c. Undamaged concrete flooring slabs and tiles. d. Bricks out of brick works (suitable for reuse). e. Steel gates. f. Miscellaneous useful articles. <p>It is required that all the above mentioned arising are to be removed from the site of work and kept in closed enclosure far disposed by as directed by the architect. The entire site should be left clear to the entire satisfaction of the Architect.</p>				
	<p>Demolish sanitary line consist of 6 manholes and pipe line about</p>				
	<p>The arising consist of manholes steel covers, undamaged pipe ...ect.</p>				
	<p>Demolition carried to total</p>				

1. EXCAVATOR

Item	Description	Unit	Quantity	Unit price	t.cost
	EXCAVATOR Rates shall include, setting out, digging returning and backfilling, and transport surplus of soil to where as directed by architect, preparing bottom of foundation to the depth carried by architect.				
1	Excavate topsoil 30 cm. Thick and remove away from site.	M ³	336		
2	Excavate for foundation footings to dept not exceeding 3m.	M ³	1205		
3	Excavate for lift concrete wall footing to depth not exceeding 3m.	M ³	54		
4	Provide and lay clean sand, free from organic matters 15cm. Thick under sub-floor well watered and ramped mechanically.	M ³	188		
	EXCAVATOR CARRIED to Summary				

2. BACKFILLING

Item	Description	Unit	Quantity	Unit price	T. cos
	Rates shall include delivery of hard core or gravel soil, laying and compaction in layers not exceeding 15 cm. Thick well watered.				
1	Above footings and around columns.	M³	970		
2	Filling top soil cuts	M³	353		
3	Under floor bed to receive plain concrete under tiles.	M³	960		
	BACKFILLING is CARRIED To Summary				

3. Concretor

Item	Description	Unit	Quantity	Unit price	T. Cost
	Rates shall include the form work , scaffolding , vibrator , all materials , work man ship ... etc R.s. is measured separately				
1	Concrete mix (A) (1:3:6) Plain Provide and lay plain concrete in bedding layers under foundations footing s 10cm. thick .	M ³	41		
2	Ditto and ditto but under lift concrete walls foundation	M ³	1.8		
3	Ditto and ditto but under ground floor tiles 10 cm.thick	M ³	76.8		
4	Concrete Mix (C) (1:1 ^{1/2} :3) Reinforced Rod reinforcement measured Separtely unless other wise stated provide and lay reinforced concretein foundation footings.	M ³	281		
5	Ditto and ditto but in columns below grade beams	M ³	37.25		
6	Ditto and ditto but in grade beams	M ³	88		
7	Ditto and ditto but in columns of ground floor	M ³	47.9		
8	Ditto and ditto but in grond floor slab 20 cm.thick.	M ³	163		
9	Ditto and ditto but in floor slab beams	M ³	106		
10	Plain concrete in window cells 5 cm.thick.	M.L			
11	Ditto and ditto but in concrete walls 30 cm. Thick.	M ³	26.4		
	Concrete is carried to summary				

Item	Description	Unit	Quantity	Unit price	T. Cost
	Provide all the thickness required of high tensile steel rod reinforcement including cuttings, hooks, bends and tying wire. Rates shall include over laps and waste.				
1	In coulmns base				
	Φ25	Ton	40.9		
2	In columns under grade level				
	Φ25	Ton	11.6		
	Φ8	Ton	1.73		
3	In grade beams				
	Φ20	Ton	13.1		
	Φ8	Ton	3.87		
4	In concrete walls				
	Φ12	Ton	2.3		
5	In ground floor columns				
	Φ25	Ton	11.6		
	Φ8	Ton	2.22		
6	In Slab beams				
	Φ25	Ton	27.6		
	Φ8	Ton	5.73		
7	In floor slab				
	Φ12	Ton	23.83		
	Φ16	Ton	N/A		
	ROD REINFORCEMENT CARRIED to Summary				

5. BRICK WORKS

Rates shall include all scaffolding cuttings to from bond, opening holes, chases, quoins,... ect. And all required material and labours.

Rates shall include for external and internal in fair face bricks (Atabara Type) finished with weather struck joints recessed with ? “square rods as work proceeds.

Rates shall allow for required opening for air- conditionings, air coolers, ducts.. etc.

Types of bricks must be approved by the Architect before starting work.

Item	Description	Unit	Quantity	Unit price	T. Cost
	<p>Rates shall include all necessary scaffoldings, cuttings to bonds, building to exact length and quion , forming chases, making holes and ducts, and racking out joints...ect.</p> <p>Provide and lay good quality redbrick in cement / sand mortar including racking out joint to receive plaster internal and external as stated.</p>				
1	1 ½ brick wall fair faced externally (Sidaba). Atbara Type.	M ²	45		
2	1 brick walls inside building fair faced both sides (Sidaba) Atabara Type.	M ²	120		
	Brick work CARRIED TO SUMMARY				

6. PAVIOR

Rates shall include all straight cutting ,waste and preparing holes. The Architect must approve samples of tiles before delivering to site. Tiles to be installed with slopes where as directed .

N.B

Allow for D.P.C layer under tiles bedding.

Item	Description	Unit	Quantity	Unit price	T. Cost
1	Provide and lay in position 20 X 20 cm.brick cement screened and grouted in white cement. The tiles must be cleaned off and smoothed mechanically on completion .	M ²	820		
2	Ditto and ditto but 20 X 20 Terrazzo Tiles for skirting .	M.L			
3	Ditto and ditto but 15 X 15 cm. White glazed tiles.	M ²			
	Prvior Carried to Summary				

8. PLUMBERS

Item	Description	Unit	Quantity	Unit price	T. Cost
	<p>The contractor is to execute is the whole of the plumbing works and installation of sanity fittings included under this heading with deatiled drawings and specification clauses. He is to to include in his prices for all work including the builderl's work in connection with the installation to the extend necessary to complete the items in the best workman – like mermer. He is to connect to the nearest manhole as directed by the architect.</p> <p>All fittings trademark to be approved by the architect before being fixed.</p> <p>Rates shall include for sockets, bends, tees, Junction and connectors for joint to fitting.</p> <p>China wetern type WC seat of approved quality.</p>				

Item	Description	Unit	Quantity	Unit price	T. Cost
1	Manhol sizes 60 X 60 cm. Ofof the same invert levels complete with excavations 25cm. Concrete base, R.C. cover one brick thick wall plastered internally, launching and benching around channels and 60 X 60 cm. Cast iron cover and frame.	No.	3		
2	Gully traps sizes 45 X 45 cm.of the same invert levels complete with excavations15cm. Coneret base R.C.and 45 X 45cm. cast iron coverand frame.	No.	3		
3	Provide and fix basin complete set of victory set of chinese type.	No.	6		
4	China ware wash hand basin of approved quality	No.	6		
5	Provide and fix P.V.C 4”pipes vertically	M.L	400		
6	Provide and fix P.V.C 4” pipes horizontally	M.L	270		
7	Provide and fix exhaust fans sizes 20 X 20cm.	No.	6		
	Plumbers Carried to summary				

9. Door

Rates include for all labour and materials. Joining, fixing, ...ect. Samples of P.V.c frames and panles and aluminum section and glass shall be submitted the architect for approval.

Item	Description	Unit	Quantity	Unit price	T. Cost
	Rates shall include all necessary labours, jonts, 6mm. Thick shadowing glass. Aluminum shall be of approval quality “unless otherwise stated” cut to exact length and size and to conform to drawing details and to any instruction issued by the architect.				
1	Doors Description of door types in compliance is attached drawings.				
2	Type D1glazing aluminum doors size 1,.0 x3.00 m comparising one leaf.	No.	3		
3	Ditto type D2 doors size 2.00x3.00 m comprising two leaves and insulated glass panel.	No.	3		
4	Ditto but door type D3 for toilets 80 X 250 cm. one leaf with P.V.C panels.	No.	6		
	Doors carried to summary				

10. Glazier

The materials used for glazing works shall be according to samples approved by the Architect and shall be cut to allow about 3mm. All around between the glass panels and the aluminum or P.V.C frames. The thickness of glass sheets shall depend on size of the panels and as may be stated in bills. The design and thickness of glass shall be approved by the architect , as well as aluminum and P.V.C sections.

Rates shall include for all labours and materials joining,fixing,..etc.

All sizes must be checked on site before manufacture.

Item	Description	Unit	Quantity	Unit price	T. Cost
	Provide and fix in position glazed panels as stated in the followings :- 1. All glass is insulated. 2. Allow for windows as direct by the Architect.				
1	Glazed panel on P.V.C frames size 1550 X 260 cm. In North and South elevation include 8 windows size 60 X260 cm.	No.	2		
2	Glazed panels on P.V.C frame size 1550 X 260 cm. In West elevations include 4 windows size 60 X 260cm. And door size 200 X 290 cm.	No.	1		
3	Glaze panel size 380 X 370 cm. On aluminum frame in North and South elevation (staircase)	No.	2		
	Glazier carried to summary				

11. FALSE CEILING

The Architect must approve sample of materials.
Rates shall include materials, labour,fixing ...ect.

Item	Description	Unit	Quantity	Unit price	T. Cost
1	Provide all material and fix in position ceiling of dikin ceiling tiles size 60X 60 cm. As well as fixed for concrete roof.	M ²	200		
2	Ditto but aluminum sheets ceiling at corridors and toilets.	M ²	170		
	False ceiling carriedto summary				

25	XLPE copper armoured cable size 4 X 185 mm² complete with the necessary cable trays, trenches ,ducts or conduits and as directed by electrical engineer. Exact lengths according to site.	Meter	100		
26	Ditto but 4X25 mm²	Meter	30		
27	Complete earthing system	Job	/		