

BILL OF QUANTITIES

CONSTRUCTION OF 10-BED STABILIZATION CENTRE AT MONGO TOWN

Item No	Description	Qty	Unit	Rate (Le)	Amount (Le)
1	PRELIMINARIES				
1.1	General				
	The contractor is to price the following preliminary items individually. Any item not priced shall be deemed to have been allowed for in the prices set out against other items in the Bill of Quantities (BOQ).				
1.2	Site Installation - Mobilisation activities				
a	Contractors Establishment - Allow for providing a "Site Installation Plan" (using the designated site plan), identifying site facilities. Provision of all plant, equipment, insurances and labour including transporting to and from the site and establishing and dismantling.	1.00	item		
1.3	Specific Requirements				
a	Allow for providing water and the necessary storage facility for the duration of the project (Water for Works).	3.00	Months		
b	The contractor on taking possession of the site must allow for watching, lighting and protecting the works, the site and the surrounding property by day and night including Sundays and holidays (Site Protection).	3.00	Months		
Preliminaries Total - Carried to SUMMARY					
2	FOUNDATION WORKS				
2.1	CLEARING, LAYOUT & STAKING				
a	Clearing the site from bushes, grasses, plants, rocks, boulders, etc. for proper layout & staking.	1	lot		
b	Layout the building by using batter boards all around the building line with 1.50 meters setback clearance for excavation.	1	lot		
2.2	EXCAVATION				
a	Ground excavation for all isolated footing foundation & septic tank.	10.00	m3		
b	All excavation works shall include the removal of all earth soil, stones, rocks, boulders, embedded roots, etc. that may come along the way during excavation.	3.30	m3		
Foundation Works Total - Carried to SUMMARY					
3	CONCRETE WORKS				
3.1	Plain insitu concrete in normal mix 1:3:6 - 19mm aggregates in:				
a	Blinding for Wall Trenches	5.41	m3		
b	Blinding for Column Bases	4.05	m3		
3.2	Reinforced insitu concrete in normal mix 1:2:4 - 12mm aggregates including formwork and reinforcements in:				
a	Foundation Columns (72Nr)	1.82	m3		
b	Columns (72Nr)	8.48	m3		
c	Column Bases/Footing (72Nr)	1.83	m3		

Item No	Description	Qty	Unit	Rate (Le)	Amount (Le)
d	Oversite slab	31.41	m3		
e	Overhead slab	47.12	m3		
f	Wall Footing	32.47	m3		
g	Fins, Steps and External Rendering	4.71	m3		
h	Foundation Floor Beams	6.30	m3		
i	Beams	12.58	m3		
j	Lintel	4.08	m3		
3.3	Reinforcement: Steel rod reinforcement bend, straight or hooked in 12 mm diameter rods:				
a	Foundation Columns Matt (72Nr)	1.06	Tns		
b	Foundation Columns (72Nr)	0.88	Tns		
c	Columns (72Nr)	1.31	Tns		
d	Fins, Steps and External Rendering	0.23	Tns		
e	Beams & Lintel	0.78	Tns		
f	Overhead slab	3.67	Tns		
g	Foundation Floor Beams	0.96	Tns		
3.4	Reinforcement: Steel rod reinforcement bend, straight or hooked in 16mm diameter rods:				
a	Columns (72Nr)	1.25	Tns		
b	Foundation Columns (72Nr)	1.04	Tns		
c	Fins, Steps and External Rendering	0.04	Tns		
d	Beams & Lintel	0.80	Tns		
f	Foundation Floor Beams	0.57	Tns		
	8mm diameter rods in:				
g	Columns	0.60	Tns		
i	Beams	0.60	Tns		
j	Foundation Floor Beams	0.46	Tns		
3.5	FORMS & SCAFFOLDINGS: Straightly sawn form works to provide rough-finish using 3/4" thk. plywood for concrete slabs and 1" x 12" x 14ft. boards for beams & columns				
a	Straightly sawn formwork using 3/4" thick plywood to provide rough finish for concrete slabs	309.14	m2		
b	1" x 12" x 14 ft boards for formwork to beams and columns	315.315	m2		
c	Formwork to vertical sides of columns, lintels and beams	295.895	m2		
d	Formwork to external rendering and fins	11.15	m2		
e	Season-dried 2" x 2" x 14 ft boards for supports	309.50	pcs		
f	Season-dried 2" x 3" x 14 ft boards for scaffolds, braces and ladders	309.50	pcs		
g	Bush Sticks for under support to floor of beam, lintel, steps and slab	60.00	dozen		
h	Overhead slab	309.14	m2		
Concrete Works Total - Carried to SUMMARY					
4	MASONRY WORKS				
	Specifications:				

Item No	Description	Qty	Unit	Rate (Le)	Amount (Le)
	Mortar Mix (1:5). Blocks: Precast sandcrete blocks 8" thk. (Exterior & Interior Walls); Blocks 6" thk. (Accent Wall). All blocks must be bedded, jointed and filled with concrete mortar. All block wall surfaces that are not to be tiled shall be plastered.				
4.1	BLOCK LAYING				
a	Laying of 8" thk. Sandcrete Blocks on Foundation wall partitions wall properly plumbed & leveled.	36.08	m2		
b	Laying of 6" thk. Sandcrete Blocks on all exterior & interior wall partitions including parapet wall properly plumbed & leveled.	350.745	m2		
4.2	PLASTERING - 12mm thick cement and sand plastering in 1:4 mix on:				
a	All masonry walls, internally and external shall be plastered excluding the mud blocks.	289.74	m2		
b	Exposed beams, overhead ceiling & columns shall be plastered	624.46	m2		
c	Foundation	36.08	m2		
Masonry Works Total - Carried to SUMMARY					
5	ROOFING AND CEILING				
5.1	ROOF TRUSSES - Provide and place seasoned red hard wood timber treated with coloured wood preservative as in:				
a	2"x4" Rafters	649.18	m		
b	2"x3" Purlins	710.83	m		
c	2"x4" Braces/struts	324.155	m		
d	2"x4" King posts	66.5	m		
e	2"x6" Ridge board	39.49	m		
f	1"x9" Fascia board	78.98	m		
g	2"x6" Wall plate	78.98	m		
5.2	ROOF COVERING				
a	Provide and place roof covering coloured Alloy-Zinc or Aluminium roofing sheets long span or cut to required sizes, and use approved roofing nails and felt (including galvanized iron ridge cap & PVC gutters) and PVC down pipes as waste water pipes from roof catchment area.	385.485	m2		
b	4" PVC Gutter	78.98	Nr.		
c	4" Gutter brackets	132.5	Nr.		
d	4" Stop-end gutter	2	Nr.		
f	4" Gutter joint	19	Nr.		
h	4" PVC pipe	9.41	Nr.		
	CEILING COVERING				
	Provide and place coloured PVC ceiling cover long span or cut to required sizes, and use approved ceiling nails and felt (including PVC corner strips, joints) and pop corner strip along edges and catchment area.	385.485	m2		
	2"x4" Rafters	649.18	m		
	2"x3" Purlins	710.83	m		
	2"x4" Braces/struts	324.155	m		

Item No	Description	Qty	Unit	Rate (Le)	Amount (Le)
Roofing and Ceiling Total - Carried to SUMMARY					
6	TILING WORK AND FLOOR FINISHING				
	Specifications: Floor Tiles: Vitrified glazed porcelain floor tiles. Wall Tiles: Vitrified ceramic wall tiles. Stair Tiles: Vitrified matt porcelain steep tiles. Toilet Tiles: Vitrified ceramic wall tiles. Stone Tiles: Granite stones. - All floor tiles shall be set & laid on 2" thk. (minimum) dry-packed mortar, properly mixed, compacted, leveled & wet. - All wall tiles shall be set & laid on pure cement grout mixed with tile adhesive for strong hold. - All tiles shall be properly filled with CTF.				
	FLOOR TILES	309.14	m2		
a	WALL AND COUNTER TOP TILES	27.00	m2		
b	TOILET TILES	20.30	m2		
Tiling Works Total - Carried to SUMMARY					
7	DOORS & WINDOWS				
	Fabrication & installation of the following items:				
7.1	DOORS				
a	Metal Door with frames. Dimension: (1.20m x 2.10m)	2.00	set		
b	Metal Door with frames. Dimension: (2.00m x 2.50m)	2.00	set		
	WOODEN DOORS				
	Door with frames. Dimension: (1.20m x 2.10m)	4.00	set		
7.2	WINDOWS - Aluminium Windows				
a	Double Window with Dimension: (1.20 x 1.40m)	4.00	sets		
b	Fan light with Dimension: (0.50 x 0.50m)	3.00	sets		
d	Aluminium-frame with fixed glass panel Windows. Dimension: (1.80 x 1.20m)	0.30	sets		
Doors & Windows Total - Carried to SUMMARY					
8	ELECTRICAL INSTALLATION				
8.1	EQUIPMENT AND CONTROL GEARS - Supply and install the following approved sub mains switch gears, fuse board etc and including 32mm diameter concealed PVC conduits and wiring between to:				
a	8-way B Type TPN, MCB distribution board c/w 100Amp TP switch disconnector fitted with all MCB's as shown on the plans	6.00	Nr		
b	8 Way - 60 Amp switched SPN consumer unit	6.00	Nr		
8.2	CIRCUIT BREAKERS				
a	Use 15amp bolt-on type circuit breakers	6.00	Nr		
b	Use 30amp bolt-on type circuit breakers	12.00	Nr		
c	Use 100amp for main circuit breaker	6.00	Nr		
8.3	LIGHTING INSTALLATION - Supply and erect 1.5mm² PVC insulated cables and PVC sheathed cables in concealed 20mm diameter PVC conduit in circuit wiring from distribution board to:				
a	6Amp, 1gang 1way switch point	6.00	Nr		
b	6Amp, 2gang 2way switch point	6.00	Nr		

Item No	Description	Qty	Unit	Rate (Le)	Amount (Le)
c	Light points	18.00	Nr		
	Supply and connect the following light fittings and accessories by approved manufacturer's, including all necessary assembling fixing accessories connections, flexible cords, jambs etc:				
d	Hanging lamp holder	18.00	Nr		
e	6Amp, 1gang 1way switch	6.00	Nr		
f	6Amp, 2gang 2way switch	6.00	Nr		
8.4	SMALL POWER INSTALLATION - Supply and erect 2.5mm² PVC insulated cables and PVC sheathed cables in concealed 20mm diameter PVC conduit in circuit wiring from distribution board to:				
a	13Amp, single socket points	6.00	Nr		
b	13Amp, double socket points	6.00	Nr		
c	13A three-gang switches veto brand	6.00	Nr		
d	30A AC outlets	6.00	Nr		
	Supply and connect the following small power fittings and accessories by approved manufacturer's, including all necessary assembling, fixing accessories connections, flexible cords, jambs etc.				
e	13Amp, single switched socket outlet	6.00	Nr		
	Supply and erect the following earthing and protecting cable:				
f	6mm ² single core PVC insulated copper conductor, c.p.c	6.00	m		
g	Use 2.5mm ² twin cable for all power auxiliary outlets	3.00	roll		
h	Use 1.5mm ² single cable for all lightings	3.00	roll		
i	Use 4.0mm ² twin cable for main feeder	2.00	roll		
j	Use 3/4" dia. Polyethylene pipe conduit	2.00	roll		
k	Use 1" dia. Polyethylene pipe conduit for CCTV, LAN and WLAN connection	5.00	roll		
8.5	LIGHTING FIXTURES				
a	Use 100w 2-bulb ceiling flushed lights	12.00	Nr		
Electricals Total - Carried to SUMMARY					
9	PLUMBING WORKS				
	Specifications: All horizontal plumbing pipes shall be laid on sand beds with 2% constant slope. All fixtures shall have traps & vents. Provide cleanouts for declogging & maintenance.				
9.1	SANITARY FIXTURES				
	W/C and wash hand basin with all fittings	3.00	sets		
9.2	PIPES & FITTINGS				
	Allow for plumbing pipes & fittings to be concealed on walls, slabs & ceilings protected by pipe sleeves.	1.00	item		
9.3	SEPTIC TANK				
	Double chamber septic tank (Digestive & Leaching chambers). Dimension: 3m wide, 3m long, 4m deep. Provide manhole for each chamber.	1.00	item		

Item No	Description	Qty	Unit	Rate (Le)	Amount (Le)
Plumbing Total - Carried to SUMMARY					
10	PAINTING				
10.1	WALLS				
a	Prepare & apply 3-coats external quality emulsion paint to rendered outside walls	193.16	m2		
b	Prepare & apply 3-coats internal quality emulsion paint to rendered inside walls	193.16	m2		
c	Prepare & apply 3-coats internal and externally quality wall putty to rendered inside, outside walls and ceiling	798.51	m2		
10.2	CEILINGS				
a	Prepare & apply 3-coats oil paint to rendered ceiling	206.09	m2		
10.3	DOORS				
a	Prepare & apply 2-coats varnish paint to wooden doors	8.00	No.		
10.4	METALS				
a	Prepare & apply 2-coats oil paint to metal window grills, railings and gates.	8.00	No.		
Painting Total - Carried to SUMMARY					
11	EXTERNAL WORKS				
11.1	Surface Water Drainage / Landscaping				
a	Concrete paving for apron	7.00	m3		
b	Concrete paving to building apron, including preparation, compaction, formwork and finished surface	36.00	m2		
c	Planter, storm drains, gutters and apron	1.00	item		
	Provide and construct concrete compound pavement, including ground preparation, filling, compaction, formwork, concrete laying, levelling and finishing	27	m3		
External Works Total - Carried to SUMMARY					

SUMMARY

No	Description	Amount (Le)
1	PRELIMINARIES	
2	FOUNDATION WORKS	
3	CONCRETE WORKS	
4	MASONRY WORKS	
5	ROOFING AND CEILING	
6	TILING WORK AND FLOOR FINISHING	
7	DOORS & WINDOWS	
8	ELECTRICAL INSTALLATION	
9	PLUMBING WORKS	
10	PAINTING	
11	EXTERNAL WORKS	
	TOTAL MAIN BUILDING - Carried to MAIN SUMMARY	
12	ADMIN COST (15.0%)	
	TOTAL SUMMARY GROUND FLOOR - Carried to MAIN SUMMARY	