



UNDP-CSAC PROJECT

United Nations Development Programme - South Sudan

BILLS OF QUANTITIES

Main Summary

Project: Livestock Patrol Unit, Malou, Jonglei

Government of South Sudan

February 2012



**United Nations Development Programme-South Sudan
Project: Livestock Patrol Unit, Malou Jonglei.**

Government of South Sudan

Main Summary

			Currency	
Bill No. 1	Preliminaries	...		-
Bill No. 2	Dormitory Block	...		-
Bill No. 3	Extensions for Kitchen and cells	...		-
SUB TOTAL (1)				-
<u>Ddt</u>	Add 5% contingencies for possible fence relocation	...		-
SUB TOTAL (2)				
<u>Ddt</u>	Discount (if any)	...		
SUB TOTAL (3)				
<u>Add</u>	(Value of preliminaries)	...		
TOTAL EXCLUDING TAX				-

Tender Amount (in words)

.....

Name of Tenderer :

Address :

.....

Signature and Seal :

Witnesses :-

1. Signature : 2. Signature :

Name: Name:

Address : Address

.....



UNDP-CSAC PROJECT

United Nations Development Programme - South Sudan

Bill of Quantities

BILL NO. 01 - PRELIMINARIES

Project: Livestock Patrol Unit, Malou - Jonglei

Government of South Sudan

FEBRUARY 2012



United Nations Development Programme-South Sudan
BILLS OF QUANTITIES-BILL No.01-PRELIMINARIES
Project: Livestock Patrol Unit, Malou, Jonglei
Government of South Sudan

Item	Description	Qty	Unit	Rate	Amount
	<p><u>Bill No : 01 - PRELIMINARIES</u></p> <p>Notes</p> <p>The contractor shall provide and maintain temporary sheds for the storage of materials, tools, and the use of all persons employed on the Site. Those used for the storage of cement and other perishable materials and the like are to be weatherproofed at all times</p> <p>The contractor shall Provide, maintain and keep in a clean condition adequate temporary sanitary accommodation and facilities, AND A First Aid Box in accordance with local regulations for all persons employed on the Works.</p> <p>The contractor shall Provide for supplying temporary electricity for the Works and facilities of the contractor including 'connection, distribution system for the work, internal arrangements and all payment to the authorities for connections. It is the responsibility of the Contractor to ensure steady and uninterrupted power supply to Works. The Contractor shall not be entitled to claim and the Employer shall not pay cost incurred by the Contractor for power supply or for using electric power generators or for using other alternative power supply methods in case there happens to be need for such power supply for whatever reason, including un-availability of normal power supply, or disruptions to normal power supply due to any reason.</p> <p>The contractor shall Provide for provision of water for the works including drinking water, and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water supply, storage and distribution. It is the sole responsibility of the contractor to ensure steady, uninterrupted adequate supply of water required for main contract and nominated sub contract work.</p>	Note			
A.1	Allow for providing and maintenance of name board (advertising board) to the specifications and as directed by the Engineer.	1	Item		-
A.2	Allow for mobilization Including: All the Contractor's plant, machinery, other equipments, work force etc to the site, setting out, establishing bench marks, and all preliminary works	1	Item		-
A	Preliminaries		To Summary		-



UNDP-CSAC PROJECT

United Nations Development Programme - South Sudan

Bill of Quantities

BILL NO. 02 - Dormitory block

Project: Livestock patrol unit, Malou, Jonglei.

Government of South Sudan

February 2012



United Nations Development Programme-South Sudan

Bill of Quantities

BILL NO. 02 - Dormitory block

Project: Livestock patrol Unit, Malou Jonglei.

Government of South Sudan

CONTENTS

- A *Preliminaries - Refer to Bill No. 01*
- B Excavation & Earthworks
- C Concrete Works
- D Masonry Works
- E Thermal and Moisture Protection
- F Structural Steel Works
- G Roofing
- H Metal Works-Doors & Windows
- I Floor, Wall & Ceiling Finishes
- J Painting Works
- K Splash apron and Flag posts

February 2012



United Nations Development Programme-South Sudan

BILLS OF QUANTITIES

BILL No. 02- Dormitory block

Project: Livestock Patrol Univ, Malou, Jonglei

Government of South Sudan

SUMMARY

Item	Description	Amount	Amount	Amount
				%
	<u>Bill No. 02</u>			
A	<i>Preliminaries - Refer Bill No. 01</i>			
B	Excavation and Earthworks	-		
C	Concrete Works	-		
D	Masonry Works	-		
E	Thermal and Moisture Protection	-		
F	Structural Steel Works	-		
G	Roofing	-		
H	Metal Works - Doors & Windows	-		
I	Floor, Wall & Ceiling Finishes	-		
J	Painting Works	-		
K	Splash apron and water tanks	-		
	Summary of Bill Carried to Grand Summary	-		



United Nations Development Programme-South Sudan
Bill of Quantities - Bill No.02- Dormitory Block
Project: Livestock Patrol Unit, Malou, Jonglei.
Government of South Sudan

Item	Description	Qty	Unit	Rate	Amount
B	<u>EXCAVATIONS AND EARTHWORKS</u> Unless other wise stated, Rate shall include for a) back filling with selected excavated material & consolidating; compaction before backfilling around the foundation plinth wall. b) disposal of surplus soil as directed & keeping all excavations free from water unless other wise measured separately. c) any additional excavation for working space. <u>Excavation & Earthwork Supports</u>				
B.1	Clearing and preparation of the site including cutting down small trees and shrubs and removal of top soil up to a depth of 150mm and extend up to 2m beyond the outer walls of the building & disposed off as directed.	390	m ²		-
B.2	Excavation for strip foundations trench; 0.6m wide by 0.9m deep from the stripped level in any material except rock : include removal of surplus as directed, and backfilling around the strip foundation with slected excavated material: ram and compact well .	65	m ³		-
	Filling				
B.4	Filling under floors with 200mm thick hardore/murram. Spreading, watering and well ramming in	45	m ³		-
B.6	Anti - termite treatment to fillings and tops of foundations: as " Aldrex" or equal and approved insecticide treatment: applied in accordance with the manufacturer's printed instructions : include for 10 years warranty period.	247	m ²		-
B	Excavation and Earth Works	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
C	<u>CONCRETE WORKS</u>				
a	Rate shall include for formwork, depositing & shuttering including wrinches,nails, handling, hoisting into position, vibrating, curing etc. and making good after removal of formwork etc.	Note			
b	Reinforcements are paid separately unless otherwise specified in the item	Note			
c	Rate shall include for supplying and laying of gauge 1000 polythene on ground, where concrete is in direct contact with ground, before pouring concrete unless other wise measured separately.	Note			
d	Rate shall include for curing three times a day for 7 days.	Note			
	<u>In Situ Concrete</u>				
C.1	Supplying and placing of C.20 screed concrete as specified to 200mm thick concrete strip foundation footings	15.00	m ³		-
C.2	Ditto: 100mm thick floor Slab	247.00	m ²		-
C.3	Supplying and placing of concrete C25 (200mmx200mm) to Ground Beams	5.00	m ³		-
C.4	Ditto: (200mmx150mm) Lintel		m ³		-
C.5	Ditto: (200mmx200mm) Roof Tie Beam	4.00	m ³		-
C.6	Ditto: (200mmx200mm) Column	3.00	m ³		-
C.7	Ditto: Column footing (1.0m x 1.0m x 300mm)	5.00	m ³		-
					-
	<u>Reinforcement</u>				
	Rate to include for supplying, cleaning, cutting, bending, fabricating, placing and the provision of all necessary temporary fixings and supports etc. including binding wires, bends, hooks, tying wires, chairs, distance blocks, steel separators/spacers				
	Tor steel reinforcement (to BS 4449 and characteristic strength $f_y = 460\text{N/mm}^2$) and Mild steel reinforcement (to BS 4449 and characteristic strength $f_y = 250\text{N/mm}^2$)				
C.9	R6 Mild steel reinforcement bars	375	kg		-
C.10	T12 High yield reinforcement bars	1215	kg		-
C.11	T10 High tensile reinforcement bars		m ²		-
C.11	Supplying & laying A142 BRC net for ground floor slab: include laps and waste	247	m ²		-
C	Concrete Works	To Summary			

Item	Description	Qty	Unit	Rate	Amount
					-
D	<u>MASONRY WORKS</u>				
a	Rate shall include for all the scaffolds, lifting, handling, weighting all rough and fair cutting, plumbing angles, normal straight cutting, forming rebated reveals and raking out joints for plastering, and curing three times a day for 7 days.				
		Note			
b	The Contractor is required to provide Precast Hollow Cement Blocks and Thick Solid Concrete blocks (in the area of the cells)				
	<u>Masonry Work</u>				
	<u>Block work</u>				
D.1	200mm thick walls in standard precast hollow cement blocks bedded and jointed in cement and sand (1:4) mortar	330	m ²		-
D.2	Ditto: for hand washing counter (1.2m high)	2	m ²		-
D.3	200mm Thick Solid concrete block walls: bedded and jointed in cement and sand (1:4) mortar in plinth walls	110	m ²		-
D	Masonry Work	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
<p>E</p> <p><u>THERMAL AND MOISTURE PROTECTION</u></p> <p><u>Damp Proof Course</u></p> <p>E.1 Horizontal damp proof course: bituminous: laid horizontally on screeded 20 mm thick (1:3) screeded beds to receive block walls.</p> <p><u>Damp proof membrane</u></p> <p>E.2 Horizontal damp proof membrane :1000 gauge polythene membrane: laid on compacted fillings (<i>measured separately</i>) in ground floor slab. (The rate shall include for laps & wastage).</p>		<p>100.00</p> <p>247</p>	<p>m</p> <p>m²</p>		<p>-</p> <p>-</p>
<p>E</p>	<p>Thermal and Moisture Protection</p>	<p>To Summary</p>			<p>-</p>

Item	Description	Qty	Unit	Rate	Amount
F	<p><u>STRUCTURAL METALWORKS</u></p> <p><u>Definitions</u></p> <p>“Welding” is deemed to be in accordance with the specification and for the material to which it is to be used. Gusset plates, shoe plates, ends, caps, cleats, brackets, stiffeners, bolts, etc., have been included to the rate of the associated steel works</p> <p>Note</p> <p>Note :</p> <p>a] For the description of materials and workmanship refer to "Specification of works", "preambles" and "Drawings".</p> <p>Note</p> <p>b] Rate shall include for</p> <p>Note</p> <p>b.1] All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings.</p> <p>Note</p> <p>b.2] All welds are 6mm thick fillet weld & allowance for rolling margin.</p> <p>Note</p> <p>b.3] The weight of weld metal in welded constructions.</p> <p>Note</p> <p>b.4] Members of any length.</p> <p>Note</p> <p>b.5] Cutting to size and shape and joints in the running length.</p> <p>Note</p> <p>b.6] Grinding to a smooth finish, unless otherwise required.</p> <p>Note</p> <p>b.7] Machine drilled bolt holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections.</p> <p>Note</p> <p>b.8] After fabrication wire brushed to clean the all steel surfaces and spray painted with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive with necessary accessories.</p> <p>Note</p> <p><u>Fabricating and erecting framed structures</u></p> <p>F.1 Roof truss type T1; spanning `12000mm wide x 1850m high, welded to gusset plate;Rate shall include for painting as specified. 75 x 75 x 4mm Angles 234 M - 50 x 50 x 3mm Angles 224 M -</p> <p>F.1 Roof truss type T2; spanning 6000mm wide x 915mm high, welded to gusset plate;Rate shall include for painting as specified. 75 x 50 x 3mm Angles M - 50 x 50 x 3mm Angles M -</p> <p><u>Purlins</u></p> <p>F.2 Supplying & fixing of Zed purlins, 100 x 50 x 2mm: welded to roof trusses (<i>measured separately</i>)at 1200mm centres: complete with all the required paint works and all necessary supports 257 m -</p>				
F	Structural Steel Works	To	Summary		

Item	Description	Qty	Unit	Rate	Amount
					-
G	<u>ROOFING</u>				
	Rate shall include;			Note	
a.01	All, rivets, nails, clips, strips and delivering and fixing in position.			Note	
a.02	Roof plumbing shall be measured & grouped separately;			Note	
	<u>Roof Covering</u>				
G.1	Supplying & fixing of gauge 28 pre-painted IT4 profiled roofing sheets of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins (<i>measured separately</i>) and rubber capping to tops of bolts	300	m ²		-
	<u>Ridges</u>				
G.2	Supplying & fixing Gauge 28 prepainted ridge cap ; 650mm girth (<i>average</i>) in position complete with all necessary roofing screws or hooks as required.	22	m		-
	<u>Valance / Barge Board</u>				
G.3	25x225mm high timber valance board / barge board fixed to edges of rafters including necessary fittings screws and nails etc.: including wood preservative and painting all as per drawings	71	m		-
G.4	Supplying & fixing of PVC square eave gutters of cross section 200mm x 200mm or as specified, including all necessary accessories, as per drawings	43	m		-
G.5	Supplying & fixing of 100mm dia PVC rain water down pipes with metal straps to concrete block work as per detail on Drawing at 1000mm centres vertically	12	m		-
	<u>Cieling Construction</u>				
a.02	All timber shall apply Priming backs & applying two coats of an approved wood preservative before fixing.			Note	
a.03	All timber including plywood sheets shall have Final Finish; Two coat of wood preservative, two coats of primer, two coats of wood sheen spray paint.			Note	
	<u>Expanded metal lath plaster (1:4) ceiling as described</u>				
G.6	Gauge 12 expanded metal lath fixed on and including 100 x 50mm and 75mm x 50mm well seasoned and treated timber branderings fixed at 600mm centres in both directions and finished with 40mm plastering trowelled level, hard and smooth.	224	m ²		-
G	Roof Covering ,Roof Ceiling & Roof Plumbing	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
H	<u>METAL WORKS- DOORS AND WINDOWS</u>				
a	The work shall include supply, fabricate and installation of doors, windows, made out of steel to be finished as per the respective specification & drawings.	Note			
b	Doors & Windows frame sections to be of,				
b.01	Outer frame & Inner frame - 75mm x 75mm minimum - Finish Size, unless otherwise stated.	Note			
b.02	The contractor shall submit shop drawings for the approval of the Engineer, prior to fabrication.	Note			
b.03	The contractor shall refer to all relevant specifications and drawings prior to pricing and it shall be his responsibility to complete the said works to the entire satisfaction of the Engineer at no additional cost.	Note			
b.04	All samples shall be provided for Engineer's approval prior to purchase of material.	Note			
c	<u>Rates shall include:</u>				
c.01	Hoisting and fixing in position, drilling and making good.	Note			
c.02	All the shop drawings, as may be required,shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing in place.	Note			
c.03	After fabrication wire brushed to clean the steel surfaces and spray painted with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive with necessary accessories.	Note			
c.04	Rate to include for providing sundry items related to the door & windows like stoppers etc..	Note			
c.05	Rate shall include for 4mm thick steel plate shutters as appropriate to suit the respective doors and windows as shown in the drawings.	Note			
d	<u>Sizes</u>				
d.01	The sizes given in the drawings and description of Bill of Quantities are finished sizes and subject to same permitted in the specifications.	Note			
d.02	The contractor shall check the measurement of openings physically at the site before fabricating the doors & windows.	Note			
e	<u>Iron mongery</u>				
e.01	All the locks shall be union / Yale or approved equivalent supplied by authorized dealer appointed by the manufacturer & approved by the Engineer.	Note			
e.02	All ironmongery shall be heavy quality brass of approved European manufacture subject to approval of the Architect, ironmongery samples should be submitted for approval.	Note			
f	<u>Painting / Final Finish</u>				

Item	Description	Qty	Unit	Rate	Amount
f.01	Unless otherwise stated all surfaces of metal doors and windows and casements and door sashes shall be finished with two coat of oil paint, with the colour to be approved on site by the Engineer prior to application.	Note			
	<u>Metal doors</u>				
H.1	Metal door set, type D1, of size 900mm*2200mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary door locks, iron mongery, final finish, & fixing to concrete or blockwork and the 4mm glass glazing	3	Nos.		-
H.2	<u>Flush doors</u>				
H.3	(Door Type D2) 45mm Thick solid core flush door size 750 x 2050mm high with plywood veneer finished for painting and hardwood lipping all round	8	Nos.		-
	<u>Metal Windows</u>				
H.5	Standard steel casement window set,type W1,of size 2000mm*1200mm high overall complete with stays, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary fasteners and iron mongery, final finish, & fixing to concrete or blockwork	9	Nos.		-
H.5	Standard steel casement window set,type W2,of size 1200mm*1200mm high overall complete with stays, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary fasteners and iron mongery, final finish, & fixing to concrete or blockwork		Nos.		-
H.5	Standard steel casement window set,type W3,of size 1000mm*1200mm high overall complete with stays, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary fasteners and iron mongery, final finish, & fixing to concrete or blockwork		Nos.		-
H.6	Standard steel casement window set, type W4, of size 1000mm*450mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: infilled with 16mm diameter steel bars welded vertically to 75 x 75x 6mm angle framing at 75mm centres as per the drawings: include for all necessary fasteners and iron mongery, final finish, & fixing to concrete or blockwork		Nos.		-
H	Metal Work - Doors & Windows	To Summary			-
I	<u>FLOOR, WALL AND CEILING FINISHES</u>				
a	The rate shall include for all temporary rules, screeds, grounds etc. for raking out joints of new brick work or hacking new concrete for key, internal & curved angles, joints between different surfaces arises quirks, inter sections between curved or irregular sections.	Note			
b	All samples shall be provided for approval by the Engineer prior to purchase of materials.	Note			

Item	Description	Qty	Unit	Rate	Amount
<u>Wall Finishes</u>					
I.1	20mm thick cement & sand (1:5) plaster finished semi rough with wood float on external faces , on blockwalls or concrete surfaces	300	m ²		-
I.2	12mm thick cement lime sand (1:1:5) plaster finished smooth with lime putty or approved equivalent on internal faces , on blockwalls or concrete surfaces.	505	m ²		-
<u>Floor finishes</u>					
I.3	20mm. thick cement and sand 1:3 screed finished smooth with coloured cement floating.	224	m ²		-
<u>Ceiling finishes</u>					
I.3	12mm thick cement lime sand (1:1:5) plaster finished smooth with lime putty or approved equivalent on internal faces, on concrete surfaces.	224	m ²		-
I	Floor, Wall & Ceiling Finishes	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
J	<u>PAINTING</u>				
a	Rate shall include for preparation of surface cleaning down, smoothing, knotting, stopping etc. protection of floors and fittings, furniture,etc and cleaning doors and windows etc.upon completion.	Note			
b	Paint shall be from approved colour with approved manufacturer.	Note			
	<u>Walls</u>				
J.1	Prepare and apply one coat of primer and two coats of weather shield paint of approved colour and quality to external faces of walls	300	m ²		-
J.2	Prepare and apply one coat of primer and two coats of emulsion paint of approved colour and quality to internal faces of walls	505	m ²		-
J.3	Prepare and apply one coat of primer and two coats of emulsion paint of approved colour and quality to Ceiling Soffite	224	m ²		-
J	Painting	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
K	Construction of the Splash apron				
K.1	Excavation for splash apron	10	m ³		-
K.2	Grade 20 concrete for base of splash apron	3	m ³		-
K.3	Splash Apron walling of 100mm thick in 1:4 mortar	39	m ²		-
K.4	Backfilling and compacting murrum	4	m ³		-
K.5	Cast concrete grade 20 on the splash apron and finished smooth	4	m ³		-
K.6	Plastering of external surface of the plinth walling	19	m ²		-
F	Construction of 4.0m high steel water tank tower				
F.1	Excavation of the footings for the steel column pads.	11	m ³		-
F.2	Supply and placing of C25 concrete in the footings and column pads	4	m ³		-
F.3	Supply and fix steel reinforcement in footings	180	kg		-
F.4	Supply, fabricate and fix steel for the water tank frame				
F.5	100 x 100 x 4mm SHS	24	m		-
F.6	80 x 40 x 3mm SHS	45	m		-
F.7	50 x 50 x 3mm Angles	70	m		-
F.8	50 x 50 x 3mm SHS	15	m		-
F.9	25 x 25 x 3mm Angles	50	m		-
F.10	4mm Steel sheet cut to size and welded onto the steel platform.	11	m ²		-
F.11	Provide for access ladder using 25 x 25	5	m		-
G	Soak Pit Size approx. 2500mm on top tapering to 1500mm and depth of 2000mm filled with selected hardcore, an approved gauge polythene covering, backfilling and all required accessories.	1	Item		-
J	Splash apron and water tank	To Summary			-



UNDP-CSAC PROJECT

United Nations Development Programme - South Sudan

Bill of Quantities

BILL NO. 03 - Extentions for Kitchen and Cells

Project: Livestock Patrol Unit, Malou, Jonglei

Government of South Sudan

February 2012



United Nations Development Programme-South Sudan

Bill of Quantities

BILL NO. 03 - Extentions for Kitchen and Cells

Project: Livestock Patrol Unit - Malou, Jonglei
Government of South Sudan

CONTENTS

- A *Preliminaries - Refer Bill No. 01*
- B Excavations & Earthworks
- C Concrete Work
- D Masonry Work
- E Thermal & Moisture Protection
- F Structural Metal Work
- G Roofing
- H Wooden Work
- I Finishes
- J Painting
- K Ventilation and other accessories

February 2012



United Nations Development Programme-South Sudan

BILLS OF QUANTITIES

BILL No. 03- Extensions for Kitchen and cells

Project: Livestock Patrol units, Malou, Jonglei.

Government of South Sudan

SUMMARY

Item	Description	Amount	Amount	Amount %
	<u>Bill No. 04</u>			
A	<i>Preliminaries - Refer Bill No. 01</i>			
B	Excavations and Earth Work	-		
C	Concrete Work	-		
D	Masonry Work	-		
E	Thermal & Moisture Protection	-		
F	Structural Metal Works	-		
G	Roofing	-		
H	Wooden works - Doors & Windows	-		
I	Finishes	-		
J	Painting Work	-		
K	Splash apron	-		
	Summary of Bill Carried to Grand Summary	-		



United Nations Development Programme-South Sudan
Bill of Quantities - Bill No.03-Extensions for Kitchen and Cell
Project: Livestock Patrol units, Malou, Jonglei.
Government of South Sudan

Item	Description	Qty	Unit	Rate	Amount
B	<p><u>EXCAVATIONS AND EARTHWORKS</u></p> <p>Unless other wise stated, Rate shall include for</p> <p>a) back filling with selected excavated material & consolidating; compaction before backfilling around the foundation plinth wall.</p> <p>b) disposal of surplus soil as directed & keeping all excavations free from water unless other wise measured separately.</p> <p>c) any additional excavation for working space.</p> <p><u>Excavation & Earthwork Supports</u></p>				
B.1	<p>Clearing and preparation of the site including cutting down small trees and shrubs and removal of top soil up to a depth of 150mm and extend up to 2m beyond the outer walls of the building & disposed off as directed.</p>	100	m ²		-
B.2	<p>Excavation for strip foundations trench; 0.6m wide by 0.9m deep from the stripped level in any material except rock : include removal of surplus as directed, and backfilling around the strip foundation with slected excavated material: ram and compact well .</p>	31	m ³		-
	<p>Filling</p>				
B.4	<p>Filling under floors with 200mm thick hardore/murram. Spreading, watering and well ramming in</p>	14	m ³		-
B.6	<p>Anti - termite treatment to fillings and tops of foundations: as " Aldrex" or equal and approved insecticide treatment: applied in accordance with the manufacturer's printed instructions : include for 10 years warranty period.</p>	85	m ²		-
B	Excavation and Earth Works	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
C	<u>CONCRETE WORKS</u>				
a	Rate shall include for formwork, depositing & shuttering including wrinches,nails, handling, hoisting into position, vibrating, curing etc. and making good after removal of formwork etc.	Note			
b	Reinforcements are paid separately unless otherwise specified in the item	Note			
c	Rate shall include for supplying and laying of gauge 1000 polythene on ground, where concrete is in direct contact with ground, before pouring concrete unless other wise measured separately.	Note			
d	Rate shall include for curing three times a day for 7 days.	Note			
	<u>In Situ Concrete</u>				
C.1	Supplying and placing of C.20 screed concrete as specified to 200mm thick concrete strip foundation footings	6.00	m ³		-
C.2	Ditto: 100mm thick floor Slab	75.00	m ²		-
C.3	Supplying and placing of concrete C25 (200mmx200mm) to Ground Beams	2.00	m ³		-
C.4	Ditto: (200mmx150mm) Lintel		m ³		-
C.5	Ditto: (200mmx200mm) Roof Tie Beam	1.00	m ³		-
C.6	Ditto: (200mmx200mm) Column	0.50	m ³		-
C.7	Ditto: Column footing (1.0m x 1.0m x 300mm)	0.60	m ³		-
					-
	<u>Reinforcement</u>				
	Rate to include for supplying, cleaning, cutting, bending, fabricating, placing and the provision of all necessary temporary fixings and supports etc. including binding wires, bends, hooks, tying wires, chairs, distance blocks, steel separators/spacers				
	Tor steel reinforcement (to BS 4449 and characteristic strength $f_y = 460\text{N/mm}^2$) and Mild steel reinforcement (to BS 4449 and characteristic strength $f_y = 250\text{N/mm}^2$)				
C.9	R6 Mild steel reinforcement bars	150	kg		-
C.10	T12 High yield reinforcement bars	240	kg		-
C.11	T10 High tensile reinforcement bars		m ²		-
C.11	Supplying & laying A142 BRC net for ground floor slab: include laps and waste	75	m ²		-
C	Concrete Works	To Summary			

Item	Description	Qty	Unit	Rate	Amount
					-
D	<u>MASONRY WORKS</u>				
a	Rate shall include for all the scaffolds, lifting, handling, weighting all rough and fair cutting, plumbing angles, normal straight cutting, forming rebated reveals and raking out joints for plastering, and curing three times a day for 7 days.				
		Note			
b	The Contractor is required to provide Precast Hollow Cement Blocks and Thick Solid Concrete blocks (in the area of the cells)				
	<u>Masonry Work</u>				
	<u>Block work</u>				
D.1	200mm thick walls in standard precast hollow cement blocks bedded and jointed in cement and sand (1:4) mortar	105	m ²		-
D.2	Ditto: for ktchen worktop counter (1.2m high)	6	m ²		-
D.3	200mm Thick Solid concrete block walls: bedded and jointed in cement and sand (1:4) mortar in plinth walls	42	m ²		-
D.4	Safely remove existing window of 1m x 1.2m high to the radio room and handover to the client	1	Item		-
D.4	Provide a provisional sum of \$1,000 for the construction of a cooking facility, incorporating the walls and concrete cooking platform. Details to be provided by the Engineer.	1	Item		-
D	Masonry Work	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
E	<u>THERMAL AND MOISTURE PROTECTION</u>				
	<u>Damp Proof Course</u>				
E.1	Horizontal damp proof course : bituminous: laid horizontally on screeded 20 mm thick (1:3) screeded beds to receive block walls.	45.00	m		-
	<u>Damp proof membrane</u>				
E.2	Horizontal damp proof membrane :1000 gauge polythene membrane: laid on compacted fillings (<i>measured separately</i>) in ground floor slab. (The rate shall include for laps & wastage).	75	m ²		-
E	Thermal and Moisture Protection	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
F	<p><u>STRUCTURAL METALWORKS</u></p> <p><u>Definitions</u></p> <p>“Welding” is deemed to be in accordance with the specification and for the material to which it is to be used. Gusset plates, shoe plates, ends, caps, cleats, brackets, stiffeners, bolts, etc., have been included to the rate of the associated steel works</p> <p>Note :</p> <p>a) For the description of materials and workmanship refer to "Specification of works", "preambles" and "Drawings".</p> <p>b) Rate shall include for</p> <p>b.1] All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings.</p> <p>b.2] All welds are 6mm thick fillet weld & allowance for rolling margin.</p> <p>b.3] The weight of weld metal in welded constructions.</p> <p>b.4] Members of any length.</p> <p>b.5] Cutting to size and shape and joints in the running length.</p> <p>b.6] Grinding to a smooth finish, unless otherwise required.</p> <p>b.7] Machine drilled bolt holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections.</p> <p>b.8] After fabrication wire brushed to clean the all steel surfaces and spray painted with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive with necessary accessories.</p> <p><u>Fabricating and erecting framed structures</u></p> <p>F.1 Supplying & fixing of rafters spanning over the walls inclusive of the bolts and anchor plates onto the ring beam where necessary. 100 x 50 x 5mm RHS</p> <p><u>Purlins</u></p> <p>F.2 Supplying & fixing of Zed purlins, 100 x 50 x 2mm: welded to roof trusses (<i>measured separately</i>) at 1200mm centres: complete with all the required paint works and all necessary supports</p> <p>F.3 Supply and fix the steel columns of size 75 x 75mm x 3mm SHS fixed firmly into the 1200mm high walls.</p>				
F	Structural Steel Works		To Summary		

Item	Description	Qty	Unit	Rate	Amount
					-
G	<u>ROOFING</u>				
	Rate shall include;			Note	
a.01	All, rivets, nails, clips, strips and delivering and fixing in position.			Note	
a.02	Roof plumbing shall be measured & grouped separately;			Note	
	<u>Roof Covering</u>				
G.1	Supplying & fixing of gauge 28 pre-painted IT4 profiled roofing sheets of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins (<i>measured separately</i>) and rubber capping to tops of bolts	125	m ²		-
	<u>Ridges</u>				
G.2	Supplying & fixing Gauge 28 prepainted ridge cap ; 650mm girth (<i>average</i>) in position complete with all necessary roofing screws or hooks as required.	9	m		-
	<u>Valance / Barge Board</u>				
G.3	25x225mm high timber valance board / barge board fixed to edges of rafters including necessary fittings screws and nails etc.: including wood preservative and painting all as per drawings	35	m		-
G.4	Supplying & fixing of PVC square eave gutters of cross section 200mm x 200mm or as specified, including all necessary accessories, as per drawings	17	m		-
G.5	Supplying & fixing of 100mm dia PVC rain water down pipes with metal straps to concrete block work as per detail on Drawing at 1000mm centres vertically	12	m		-
	<u>Cieling Construction</u>				
a.02	All timber shall apply Priming backs & applying two coats of an approved wood preservative before fixing.			Note	
a.03	All timber including plywood sheets shall have Final Finish; Two coat of wood preservative, two coats of primer, two coats of wood sheen spray paint.			Note	
	<u>Expanded metal lath plaster (1:4) ceiling as described</u>				
G.6	Gauge 12 expanded metal lath fixed on and including 100 x 50mm and 75mm x 50mm well seasoned and treated timber branderings fixed at 600mm centres in both directions and finished with 40mm plastering trowelled level, hard and smooth.		m ²		-
G	Roof Covering ,Roof Ceiling & Roof Plumbing	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
H	<u>METAL WORKS- DOORS AND WINDOWS</u>				
a	The work shall include supply, fabricate and installation of doors, windows, made out of steel to be finished as per the respective specification & drawings.	Note			
b	Doors & Windows frame sections to be of,				
b.01	Outer frame & Inner frame - 75mm x 75mm minimum - Finish Size, unless otherwise stated.	Note			
b.02	The contractor shall submit shop drawings for the approval of the Engineer, prior to fabrication.	Note			
b.03	The contractor shall refer to all relevant specifications and drawings prior to pricing and it shall be his responsibility to complete the said works to the entire satisfaction of the Engineer at no additional cost.	Note			
b.04	All samples shall be provided for Engineer's approval prior to purchase of material.	Note			
c	<u>Rates shall include:</u>				
c.01	Hoisting and fixing in position, drilling and making good.	Note			
c.02	All the shop drawings, as may be required,shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing in place.	Note			
c.03	After fabrication wire brushed to clean the steel surfaces and spray painted with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive with necessary accessories.	Note			
c.04	Rate to include for providing sundry items related to the door & windows like stoppers etc..	Note			
c.05	Rate shall include for 4mm thick steel plate shutters as appropriate to suit the respective doors and windows as shown in the drawings.	Note			
d	<u>Sizes</u>				
d.01	The sizes given in the drawings and description of Bill of Quantities are finished sizes and subject to same permitted in the specifications.	Note			
d.02	The contractor shall check the measurement of openings physically at the site before fabricating the doors & windows.	Note			
e	<u>Iron mongery</u>				
e.01	All the locks shall be union / Yale or approved equivalent supplied by authorized dealer appointed by the manufacturer & approved by the Engineer.	Note			
e.02	All ironmongery shall be heavy quality brass of approved European manufacture subject to approval of the Architect, ironmongery samples should be submitted for approval.	Note			
f	<u>Painting / Final Finish</u>				

Item	Description	Qty	Unit	Rate	Amount
f.01	Unless otherwise stated all surfaces of metal doors and windows and casements and door sashes shall be finished with two coat of oil paint, with the colour to be approved on site by the Engineer prior to application.	Note			
	<u>Metal doors</u>				
H.1	Metal door set, type D1, of size 900mm*2200mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary door locks, iron mongery, final finish, & fixing to concrete or blockwork as indicated in the drawings	1	Nos.		-
H.2	Metal door set, type D2, of size 900mm*2200mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary door locks, iron mongery, final finish, & fixing to concrete or blockwork as indicated in the drawings.	2	Nos.		-
H.3	Metal door set, type D3, of size 900mm*1200mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: include for all necessary door locks, iron mongery, final finish, & fixing to concrete or blockwork as indicated in the drawings.	1	No		-
H.4	Metal windows				
	<u>Fixing and installation of Welded steel mesh</u> Supply and install a secure welded steel mesh 6mm at a spacing of 50 x50 fixed onto an 80 x 40 x 3mm steel frame securely fixed into walls or concrete				
H.5	80 x 40 mm x 3mm SHS	60	m		-
H.6	Welded steel mesh 6mm thick at spacing of 50mm x 50mm	25	m ²		-
H	Metal Work - Doors & Windows	To Summary			-
I	<u>FLOOR, WALL AND CEILING FINISHES</u>				
a	The rate shall include for all temporary rules, screeds, grounds etc. for raking out joints of new brick work or hacking new concrete for key, internal & curved angles, joints between different surfaces arises quirks, inter sections between curved or irregular sections.	Note			
b	All samples shall be provided for approval by the Engineer prior to purchase of materials.	Note			
	<u>Wall Finishes</u>				
L.1	20mm thick cement & sand (1:5) plaster finished semi rough with wood float on external faces , on blockwalls or concrete surfaces	105	m ²		-
L.2	12mm thick cement lime sand (1:1:5) plaster finished smooth with lime putty or approved equivalent on internal faces , on blockwalls or concrete surfaces.	220	m ²		-
	<u>Floor finishes</u>				

Item	Description	Qty	Unit	Rate	Amount
I.3	20mm. thick cement and sand 1:3 screed finished smooth with coloured cement floating.	75	m ²		-
<u>Ceiling finishes</u>					
I.3	12mm thick cement lime sand (1:1:5) plaster finished smooth with lime putty or approved equivalent on internal faces, on concrete surfaces.		m ²		-
I	Floor, Wall & Ceiling Finishes	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
J	<u>PAINTING</u>				
a	Rate shall include for preparation of surface cleaning down, smoothing, knotting, stopping etc. protection of floors and fittings, furniture,etc and cleaning doors and windows etc.upon completion.	Note			
b	Paint shall be from approved colour with approved manufacturer.	Note			
	<u>Walls</u>				
J.1	Prepare and apply one coat of primer and two coats of weather shield paint of approved colour and quality to external faces of walls	100	m ²		-
J.2	Prepare and apply one coat of primer and two coats of emulsion paint of approved colour and quality to internal faces of walls	212	m ²		-
J.3	Prepare and apply one coat of primer and two coats of emulsion paint of approved colour and quality to Ceiling Soffite		m ²		-
J	Painting	To Summary			-

Item	Description	Qty	Unit	Rate	Amount
K	Construction of the Splash apron				
K.1	Excavation for splash apron	6	m ³		-
K.2	Grade 20 concrete for base of splash apron	2	m ³		-
K.3	Splash Apron walling of 100mm thick in 1:4 mortar	18	m ²		-
K.4	Backfilling and compacting murrum	3	m ³		-
K.5	Cast concrete grade 20 on the splash apron and finished smooth	2	m ³		-
K.6	Plastering of external surface of the plinth walling	18	m ²		-
J	Splash apron	To Summary			-