United Nations Development Programme - South Sudan

CSBs PORTAL PROJECT

BILLS OF QUANTITIES

LOT 1

Project: Support to County Local Governments- Mayom County-Mayom Communty Centre - Unity State

Republic of South Sudan

Feb. 2012

United Nations Development Programme-South Sudan

Project: Support to County Local Governments- Mayom County-Mayom Communty Centre - Unity State

Republic of South Sudan

Main Summary

		Currency
Bill No. 1	Preliminaries	-
Bill No. 2	Community Centre Building	-
Bill No. 3	Toilet for the Community Centre in Mayom	-
SUB TOTAL (1)		-
Ddt	(Value of preliminaries)	-
SUB TOTAL (2)		-
Ddt	Discount (if any)	
SUB TOTAL (3)		-
Add	(Value of preliminaries)	-
TOTAL		-

Tender Amount (in words) …….....……

……..…….....……..…

Name of Tenderer :…….....……...……

Address :……...….....……...……...……

…….....……...……

Signature and Seal :

Witnesses :-

1. Signature : …….....…… 2. Signature : …….....……

Name: …….....…… Name: …….....

Address :……...…...……...…… Address .....……

……...……...…… ……...…….....

United Nations Development Programme-South Sudan

BILLS OF QUANTITIES-BILL No.01-PRELIMINARIES

Project: Support to County Local Governments-Unity State

Republic of South Sudan

Item	Description	Qty	Unit	Rate	Amount
	Bill No : 01 - PRELIMINARIES				
	Notes				
	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	Note			
	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.	Note			
	The Contractor shall Provide, maintain and keep in a clean condition **adequate temporary sanitary accommodation** and facilities in accordance with local regulations for all persons employed on the Works.	Note			
	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.	Note			
	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.	Note			
A.1	Allow for providing and maintenance of **name board (**advertising board) to the specifications and as directed by the Engineer.	1	Item		0.00
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 including those Noted above	1	Item		0.00
A.3	Allow for **providing Three (3) Metallic Flag Poles and Masonry Flag area Platform to the specifications and as directed by the Engineer.**	1	Item		0.00
A	**Preliminaries**	**To Summary**			**-**

United Nations Development Programme-South Sudan

BILLS OF QUANTITIES

BILL No. 02- Community Centre Building

Project: Support to County Local Governments- Unity State-Mayom County-Mayom

Republic of South Sudan

SUMMARY

Item	Description	Amount	Amount (Per SQ.M)	Amount %
	Bill No. 02			
A	*Preliminaries - Refer to Bill No. 01*			
B	Excavation and Earthworks	-		
C	Concrete Works	-		
D	Masonry Works	-		
E	Thermal and Moisture Protection	-		
F	Structural Steel Works	-		
G	Roofing Works	-		
H	Metal Works - Doors & Windows	-		
I	Floor, Wall & Ceiling Finishes	-		
J	Painting Works	-		
K	Electrical Works	-		
L	Provisional Sum	-		
	Summary of Bill Carried to Grand Summary	-		
	Total Gross Floor Area (m²)	**185**		
	Price per SQ. m	-		
	Price per SQ. ft			

Item	Description	Qty	Unit	Rate	Amount
B	**EXCAVATIONS AND EARTHWORKS**				
	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.				
	d) excavating in any material, including running sand and rock, commencing excavation at any depth, excavating below the normal water table, excavating around existing services and mains, supporting the vertical sides of excavations,and filling soft spots.				
	Excavation & Earthwork Supports				
B.1	**Clearing and preparation of the site** including removal of top soil up to a depth of 150mm and disposed off as directed.	260	m²		-
B.2	Excavation for strip foundations trench; 0.60m wide by 1.2m 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 .	46	m³		-
B.2a	Excavation for Column Footings; 1.0m wide by 1.0m by 1.8m 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 .	44	m³		-
B.2b	Excavation for Splash Apron 0.45m 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,and filling with slected excavated material;leveled, rammed and compacted well .	27	m³		-
	Filling				
B.3	Filling **under floors** with 300mm Thick Hardcore Layer of size 80mm to 150mm. Spreading, watering and well ramming in	50	m³		-
B.4	Filling **under floors** with 300mm thick Murram Layer. Spreading, watering and well ramming in . Murram shall be placed in layers of not more than 150mm and well compacted before adding the next layer.	50	m³		-
B.4a	Ditto for Splash Apron Filling **under floors** with 150mm thick Murram. Spreading, watering and well ramming in	4	m³		-
B.5	50mm thick Sand blinding	9.00	m³		-
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.	260	m²		-
B	**Excavation and Earth Works**		**To Summary**		-

Item	Description	Qty	Unit	Rate	Amount
C	**CONCRETE WORKS**				
a	Rate shall include for all the necessary Formwork and accessories,including wrinches,nails,etc.	Note			
b	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			
	In Situ Concrete: **Insitu concrete class 20/20mm aggregates as described.**				
C.1	Supplying and placing of C**.20 screed concrete** as specified to 200mm thick concrete strip foundation footings	9.00	m³		-
C.1a	Ditto: to 100mm thick Splash Apron footing	3.00	m³		-
C.1b	Ditto: to 100mm thick Splash Apron Slab	3.00	m³		
	Reinforced Concrete grade 25/20mm aggregates as described:-				
C.2	Supplying and placing of C**.25 concrete** as specified to 250mm thick concrete Column footings	6.00	m³		-
C.2a	Ditto: to 100mm thick floor Slab	19.00	m³		-
C.2b	Ditto: to Columns	5.00	m³		-
C.2c	Ditto: to (**250mmx200mm) Ground Beams**	5.00	m³		-
C.2d	Ditto to: (**250mmx200mm) Roof Tie Beams Beams**	5.50	m³		-
	Reinforcement 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 fy = 460N/mm^2) and Mild steel reinforcement (to BS 4449 and characteristic strength fy = 250N/mm^2)				
C.3	R6 mild steel reinforcement barsb Stirrups	288	kgs		-
C.4	High yield reinforcement bars (Y12)	1514	kgs		-
C.5	Supplying & laying A142 BRC net for ground floor slab: include laps and waste	185	m²		-
	Lintels				
C.6	**Lintel** size 200 x 200 mm in cross section: complete with 4 Y12 bars and R6 bars at 100mm centres : include all required formwork	55	m		-
	Concrete Sundries (Provisional)				
C.7	**20mm Thick expansion joint** as "flexcell", "styrofoam or equal and approved expansion joint: embeded in concrete beds : 150mm wide	7	m²		-
C.8	20 x 10mm deep **expansion joint sealant**	36	m		-

Item	Description	Qty	Unit	Rate	Amount
C	Concrete Works		To Summary		-

Item	Description	Qty	Unit	Rate	Amount
D	**MASONRY WORKS**				
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 use solid precast Block work.				
	Masonry Work				
	Up to DPC level				
D.1	Solid concrete block walls in cement sand (1:4) mortar in **steps**	1.50	m^3		-
D.2	225 mm thick **Solid Block** Plinth walls in cement sand (1:4) mortar in **foundations**	108	m²		-
	Block work				
D.3	**200mm thick walls** in standard precast **solid cement blocks** in 1:4 cement sand mortar for the walls.	250	m²		-
D.3a	**Ditto.** for Splash Apron	52	m²		-
D	**Masonry Work**		**To Summary**		**-**
E	**THERMAL AND MOISTURE PROTECTION**				
	Damp Proof Course				
E.1	Horizontal **damp proof course:** bituminous: laid horizontally on screeded 200 mm thick (1:3) screeded beds to receive block walls.	16.00	m²		-
	Damp proof membrane				
E.2	Horizontal **damp proof membrane** :1000 gauge polythene membrane: laid on compacted fillings (*measured separately*) in ground floor slab. (The rate shall include for laps & wastage).	185	m²		-
E	**Thermal and Moisture Protection**		**To Summary**		**-**
F	**STRUCTURAL STEEL WORKS**				
	Definitions				
	"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	Note			
	Note :				
	a] For the description of materials and workmanship refer to "Specification of works", "preambles" and "Drawings".	Note			
	b] Rate shall include for	Note			
	b.1] All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings.	Note			
	b.2] All welds are 6mm thick fillet weld & allowance for rolling margin.	Note			
	b.3] The weight of weld metal in welded constructions.	Note			

Item	Description	Qty	Unit	Rate	Amount
	b.4] Members of any length.	Note			
	b.5] Cutting to size and shape and joints in the running length.	Note			
	b.6] Grinding to a smooth finish, unless otherwise required.	Note			
	b.7] Machine drilled bolt holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections.	Note			
	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.	Note			
	Fabricating and erecting framed structures				
F.1a	Roof truss type **T1;** spanning 7150mm wide x 1657mm high, consisting of 80x60x6mm (double bottom member) structural rectangular tube members welded to gusset plate-all as per detail drawing;Rate shall include for painting as specified.	13	No		-
F.1b	Roof truss type **T2 for the Porch area;** spanning 3500mm wide x 653mm high, consisting of 80x60x4mmstructural rectangular tube members welded to gusset plate-all as per detail drawing ;Rate shall include for painting as specified.	6	No		-
	Purlins				
F.2	Supplying & fixing of **Zed purlins**, 100 x 50 x 2mm: welded to roof trusses *(measured separately*)at 850mm centres: complete with all the required paint works and all necessary supports	335	m		-
F	**Structural Steel Works**	**To Summary**			-
G	**ROOFING WORKS**				
	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			
	Roof Covering				
G.1	Supplying & fixing of gauge 28 pre-painted IT4 profiled **(Super-Eco or its equivalent) roofing sheets** of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins *(measured separately)* and rubber caping to tops of bolts	235	m²		-
	Ridges				
G.2	Supplying & fixing Gauge 28 prepainted **ridge cap**; 650mm girth *(average*) in position complete with all necessary roofing screws or hooks as required.	30	m		-
	Fascia Board				
G.3	30x200mm,high 1.2mm thick Steel Roof Fascia Board fixed to edges of rafters including necessary fittings screws etc.: including painting as specified	58	m		-
G.4	Supplying & fixing of PVC square eave gutters of cross section 200mm x 200mm or as specified, including all necessary accessories	50	m		-

Item	Description	Qty	Unit	Rate	Amount
G.5	Supplying & fixing of 110 dia PVC rain water down pipes with metal straps to concrete block work as per detail on Drawing at 1000mm centres vertically	14	m		-
	Cieling Construction				
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			
G.6	**Expanded Metal Lath Plaster (1:4) ceiling as described** Gauge24 expanded metal lath fixed on and including 50mm x 50mm well seasoned and treated timber branderings fixed at 600mm centres,in both directions including 100x50mm supporting joists and finished with 50mm plastering trowelled level, hard and smooth.Rate includes finishing smooth with cement lime sand (1:1:5) plaster smooth. Including the Eaves.	170	m²		-
G	**Roofing Works**		**To Summary**		**-**
H	**METAL WORKS- DOORS AND WINDOWS**				
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			
b.05	Where swing doors has been specified prices shall include for provisions of floor hinges.	Note			
c	**Rates shall include;**				
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 & three 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			

Item	Description	Qty	Unit	Rate	Amount
c.05	Rate shall include for 5mm thick one-way tinted glass as appropriate to suit the respective doors and windows as shown in the drawings.	Note			

Item	Description	Qty	Unit	Rate	Amount
d	**Sizes**				
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	**Iron mongery**				
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	**Painting / Final Finish**				
f.01	Unless otherwise stated all surfaces of metal doors and windows and casements and door sashes shall be finished with three coats of oil paint, with the colour to be approved on site by the Engineer prior to application.	Note			
	Metal doors				
H.1	Metal **door set, type D1**,two shutters of size 1200x2400mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: include for 5mm thick one-way tinted glass and all necessary door locks, iron mongery, final finish, & fixing to concrete or blockwork	2	Nos.		-
H.2	Metal **door set, type D2**, of size 900x2400mm high overall, comprising of 100mm steel channel frame fully welded and mitred at corners: include for 5mm thick one-way tinted glass and all necessary door locks, iron mongery, final finish, & fixing to concrete or blockwork	2	Nos.		-
H.3	Metal **door set, type D3**, of size 900x2100mm 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	2	Nos.		-
	Metal Windows				
H.4	Standard steel casement **window set,type W1**,of size 1200mm x 1400mm high overall complete with stays, comprising of 100mm steel channel frame fully welded and mitred at corners: include for 5mm thick one-way tinted glass and all necessary fasteners and iron mongery, final finish, & fixing to concrete or blockwork. The windows are to be provided with barglar proofing as per drawings and opening inwards.	13	Nos.		-
H	**Metal Work - Doors & Windows**		**To Summary**		**-**

Item	Description	Qty	Unit	Rate	Amount
I	**FLOOR, WALL AND CEILING FINISHES**				
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			
	Wall Finishes				
I.1	25mm thick cement & sand (1:5) plaster **finished semi rough** with wood float on **external faces**, on blockwalls or concrete surfaces. Provide for Pointing Grooves in the finish as per the drawings	240	m²		-
I.2	20mm thick cement lime sand (1:1:5) plaster **finished smooth** with lime putty or approved equivalent on **internal faces**, on blockwalls or concrete surfaces.	290	m²		-
	Floor finishes				
I.3	450mm x 450mm **Porcelain floor tiles** inclusive of skirting, 100mm high.Rate shall include the necessary screed,spacers etc.(Samples of Tiles to be approved by the engineer)	156	m²		-
I.4	Ditto for the Porches	18	m²		-
I.5	20mm. thick cement and sand 1:3 screed finished smooth to Splash Apron:Sloped	40	m²		-
I.5a	Ditto: Treads and risers	3	m²		-
	Plinth Plaster				
I.6	25mm. thick cement and sand 1:3 plinth plaster finished smooth .	15	m²		-
I	**Floor, Wall & Ceiling Finishes**	**To Summary**			**-**
J	**PAINTING WORKS**				
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			

Item	Description	Qty	Unit	Rate	Amount
	Walls				
J.1	Prepare and apply one coat of primer and three coats of **weather shield paint** of approved colour and quality to **external faces** of walls	240	m²		-
J.2	Prepare and apply one coat of primer and three coats of **Vinyl emulsion paint** of approved colour and quality to **internal faces** of walls	290	m²		-
J.3	Ditto: **Plinths**	15	m²		-
J.4	Prepare and apply one coat of primer and three coats of **Ceiling White emulsion paint** of approved quality to **Ceiling Soffites**	174	m²		-
J	**Painting Works**		**To Summary**		**-**
K	**ELECTRICAL INSTALLATIONS**				
a	Unless otherwise stated, Rates in Bill of Quantities shall include all necessary Hacking,provision of holes, all materials including; Cables, conduits, PVC sunk box, bulbs, switches etc.) and labour required to complete the electrical installation to good working order.	Note			
b	Testing and commissioning of the electrical installation is to be carried out by the contractor and Cost of such testing and reports to be included in the rates unless otherwise mentioned separately.	Note			
K.1	**MCCB, MCB shall be manufactured by Harvels, Merlin Gerin , F&G, Moler or equivalent & approved by the Engineer.** Supply and installation of Change-over switch gear,control panel cubicle made out of (2mm thickness) sheet steel enclosure, with all associated Circuit Breakers for the Lights, Sockets and Cieling Fans to the approval of the engineer;include for all associated wiring.	1	Item		-
	Final Circuit Wiring Rates for final circuit wiring shall include all necessary switches, sockets, materials Cables, conduits, PVC sunk box, & junction boxes, draw wires, etc. and labour required to complete the electrical installation to good working order.	Note			
	Light Point Wiring				
K.2	Wiring and installation (including supply of all materials) of the **light points** using approved type PVC insulated PVC sheathed 1 mm² copper cable and 2.5mm² Earth cable drawn through securely fixed concealed PVC conduit. (Switches shall be ABB / Clipsal or similar type approved by the engineer). As per drawing	18	No		-
	13ASocket Outlet				
K.3	Supply & installation of **13A** fused **socket outlet** to comply with relevant BS standard (Clipsal, Crabtree or equivalent). Wiring (including supply of earth wire & all other material required) of above socket outlet. As per drawing	10	No		-

Item	Description	Qty	Unit	Rate	Amount
	Fittings & Equipments				
	Light Fittings				
K.4	Supply and installation of **Energy Saving Florescent Tubes (**Philips or equivalent) suitable for indoor use including all other necessary accessories.	18	No		-
	Earthing Arrangement				
K.5	Supply and installation of approved type **earthing system** as approved by the engineer in order to keep the earth resistance below 10 ohms. The earth bar at the main distribution board should connect to the earth electrode with a 16mm2 PVC/CU cables	1	Item		-
	Ceiling Fans				
K.6	Supply and installation of approved type ceiling Fans, complete with the neccessary switches and concealed wiring.	6	No		-
K	**Electrical Works**		**To Summary**		-
L	**PROVISIONAL SUMS**				
a	The work to be done and or materials to be provided which is covered by the following Provisional Sums form part of the Works and shall be completed within the Time for Completion for the applicable Section or Portion of the Works.	Note			
b	Payments against the Provisional Sums shall be subject to a written instruction by the Engineer for any additional works deviating from the tender documents	Note			
c	Where no instructions have been issued in respect of additional works against the provisional sum, the value of the provisional sum shall be deducted from the contractor's contract sum.	Note			
L.1	Allow provisional sum to cover possible **additional costs due to any deviation** from the tender issue documents. Payments against this item shall be subject to an Engineer's instruction for additional works. Any sums agaisnt this item, for which no instruction has been issued shall be deducted from the final certificate of payment due to the contractor.	1	PS		-
L	**Provisional Sums**		**To Summary**		-

United Nations Development Programme-South Sudan

BILLS OF QUANTITIES

BILL No. 03- Toilet Block

Project: Community Centre at the County Head Quarters-Mayom County- Unity State

Republic of South Sudan

SUMMARY

Item	Description		Amount	Amount (Per SQ.M)	Amount %
	Bill No. 03				
A	*Preliminaries - Refer Bill No. 01*				
B	Excavations and Earth Work		-		
C	Concrete Work		-		
D	Masonry Work		-		
E	Thermal & Moisture Protection		-		
F	Structural Metal Works		-		
G	Roofing		-		
H	Metal works - Doors & Windows		-		
I	Finishes		-		
J	Painting Work		-		
K	Ventilation and other Accessories		-		
	Summary of Bill Carried to Grand Summary		-		
	Total Gross Floor Area (m2)		8		
	Price per SQ. m		-		

United Nations Development Programme-South Sudan

Bill of Quantities - Bill No.03-Toilet Block

Project: Community Centre at the County Head Quarters-Mayom County- Unity State

Republic of South Sudan

Item	Description	Qty	Unit	Rate	Amount
B	**EXCAVATIONS AND EARTHWORKS** Unless other wise stated, Rate shall include for a) back filling with selected excavated material & consolidating. Surface treatment; compaction before filling / foundation. 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. d) Trees will require protection e) keeping the excavations free of water (including rainwater), planking and strutting,etc f) excavating in any material, including running sand and soft rock, commencing excavation at any depth, excavating below the normal water table, excavating around existing services and mains, supporting the vertical sides of excavations,and filling soft spots.				
	Excavation & Earthworks				
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.	18	m²		-
	Bulk excavations				
B.2	Excavation for a pit 2.55m x 1.7m x 6m deep from the stripped level in any material except hard rock : include removal of excavated material and deposit away as directed. Provide for Working Space	27.00	m³		-
B	**Excavation and Earth Works**		**To Summary**		-
C	**Concrete Work**				

Item	Description	Qty	Unit	Rate	Amount
C	**CONCRETE WORKS**				
a	Rate shall include for form work depositing, 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			
	In Situ Concrete				
C.1	Supplying and placing of **Grade 20, (Ratio:1:3:6) concrete** as specified on 100mm thick beds	0.50	m³		-
C.2	Ditto: suspended slabs: 2.55mx1.7mx 200mm thick	1.00	m³		-
C.3	Ditto 100mm Thick, (Ratio:1:3:6)Plain Concrete to the entrance	0.50	m³		-
C.4	Support columns 150mm x 150mm Thick, (Ratio:1:3:6) Concrete	1.00	m³		-
C.5	Support mid-level Beam 200mm x 200mm Thick, (Ratio:1:3:6) Concrete	0.50	m³		-
	Reinforcement:				
	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 (designed laps and m.s. chairs if any included in quantities)	Note			
	Tor steel reinforcement (to BS 4449 and characteristic strength fy = 460N/mm^2) and Mild steel reinforcement (to BS 4449 and characteristic strength fy = 250N/mm^2)				
C.6	Y12 high yield reinforcement bars (standard length 12m)	215	kgs		-
C.6	R6 mild steel reinforcement bars (6m standard length). Stirrups to be every 200mm c/c.	40	pcs		-
C.7	**Lintels over openings (**size 200 x 200 mm) in cross section :including 4No. T10 bars and R 6 links at 100mm centres, complete with all formwork	8	m		-

Item	Description	Qty	Unit	Rate	Amount
C	**Concrete Works**		**To Summary**		-
D	**MASONRY WORK**				
a	Rate shall include for lifting, handling, weighting all rough and fair cutting, plumbing angles, normal straight cutting, forming rebated reveals and raking out joints for plastering.	Note			
	Up to DPC level-Substructure				
D.1	225 mm thick Solid Block walls in cement sand (1:4) mortar for the substructure wall, 6.3m high	50	m²		-
D.2	Ditto for Curtain Wall, 0.6m Deep	2	m²		-
	Concrete block work				
D.3	**200 mm thick Solid Block walls** in 1:4 cement sand mortar for the walls.	24	m²		-
D	**Masonry Work**		**To Summary**		-
E	**THERMAL AND MOISTURE PROTECTION**				
	Damp proof course				
E.1	Horizontal **damp proof course:** bituminous: laid horizontally on screeded 20 mm thick (1:3) screeded beds to receive block walls.	2	m²		-
E	**Thermal and Moisture Protection**		**To Summary**		-
F	**STRUCTURAL METALWORK**				
	Definitions				
	"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 work in which they occur.	Note			
	Note :				

Item	Description	Qty	Unit	Rate	Amount
	a] For the description of materials and workmanship refer "Specification of works", "preambles" and "Drawings".	Note			
	b] Rate shall include for	Note			
	b.1] All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings.	Note			
	b.2] All welds are 6mm thick fillet weld & allowance for rolling margin.	Note			
	b.3] The weight of weld metal in welded constructions.	Note			
	b.4] Members of any length.	Note			
	b.5] Cutting to size and shape and joints in the running length.	Note			
	b.6] Grinding to a smooth finish, unless otherwise required.	Note			
	b.7] Machine drilled bolt, holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections.	Note			
	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.	Note			
	Fabricating and erecting framed structures				
	Roof structures				
F.1	Roof truss,T.4, spanning 1700mm wide; tappered all as per Drawing.	3	No		-
	Purlins				
F.2	Supplying & fixing of **Zed purlins**, 100 x 50 x 2mm: welded to roof trusses *(measured separately*)at 900mm centres: complete with all the required paint works and all necessary supports	15	m		-
F	**Structural Metal Works**		**To Summary**		**-**
G	**ROOF COVERINGS AND ROOF DRAINAGE**				
	Rate shall include;	Note			

Item	Description	Qty	Unit	Rate	Amount
a.01	All, rivets, nails, clips, strips and delivering and fixing in position.	Note			
a.02	All timber shall apply Priming backs & applying two coats of an approved wood preservative before fixing.	Note			
a.03	All timber shall have final finish; Two coat of wood preservative, two coats of primer, two coats of wood sheen spray paint.	Note			
a.04	Roof drainage shall be measured & grouped separately	Note			
	Roof Covering				
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 *(measured separately)* and rubber caping to tops of bolts	11	m²		-
	Fascia Board				
G.2	30x200mm,high 1.2mm thick Steel Roof Fascia Board fixed to edges of rafters including necessary fittings screws etc.: including painting as specified	13	m		-
G	**Roof Coverings & Roof Drainage**		**To Summary**		**-**
H	**METAL WORK- DOORS AND WINDOWS**				
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			

Item	Description	Qty	Unit	Rate	Amount
c	**Rates shall include;**				
c.01	Hoisting and fixing in position, drilling and making good.	Note			
c.02	All 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 as appropriate to suit the respective doors and windows as shown in the drawings.	Note			
d	**Sizes**				
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	**Ironmongery**				
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	**Painting / Final Finish**				
f.01	Unless otherwise stated all surface of timber doors and windows and casements and plywood door sashes shall be finished with two coat of wood preservative, two coats of primer, two coats of wood sheen spray paint.	Note			

Item	Description	Qty	Unit	Rate	Amount
	Doors				
H.1	Metal **door set, type D4**, of size 800x2100mm 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	2	Nos.		-
H.2	Flyscreens to all ventilation openings	1	Item		-
H	**Metal Work - Doors & Windows**		**To Summary**		-
I	**FINISHES**				
a	The contractor is advised to refer to the specification prior to pricing for this section of work	Note			
b	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 surfaces, etc. and all making good around pipes, sanitary fittings & the like.	Note			
c	All samples shall be provided for approval by the Engineer prior to purchase of materials.	Note			
0	**Wall Finishes**				
I.1	15mm thick cement and sand (Ratio 1:5) render on concrete or blockwork: wood floated hard and smooth: to Substructure **walls**	50	m²		-
I.2	15mm thick cement and sand (Ratio 1:5) render on concrete or blockwork: wood floated hard and smooth: to both **external and internal walls**	48	m²		-
	Floor finishes				
I.3	50mm Thick cement and sand (1:3) screed : steel trowelled hard and smooth to **internal floors**	5	m²		-
	Plinth Plaster				
I.4	20mm Thick cement and sand (1:3) render : wood floated hard and smooth to **plinths**: externally	3	m²		-

Item	Description	Qty	Unit	Rate	Amount
I	**Finishes**		**To Summary**		**-**
J	**PAINTING**				
a	Rate shall include for preparation of surface cleaning down, smoothing, knotting, stepping etc. protection of floors and fitting, removing & replacing door and window, furniture, and cleaning windows etc. upon completion.	Note			
b	Paint shall be from approved color with approved manufacturer.	Note			
	Wall Painting				
J.1	Prepare and apply one coat of primer and three coats of **weather shield paint** of approved colour and quality to **external faces** of walls	28	m²		-
J.2	Ditto: **rendered plinth** surfaces	3	m²		-
J.3	Prepare and apply one coat of primer and three coats of **Vinyl emulsion paint** of approved colour and quality to **internal faces** of walls	20	m²		-
J	**Painting**		**To Summary**		**-**
K	**VENTILATION AND OTHER ACCESSORIES**				
	All Provisional				
	Plumbing Works				
a	Unplasticized polyvinyl chloride (uPVC) pipes shall be used in the plumbing installation and they must conform in every respect to the requirements of BS 4514.	Note			
b	All fittings and pipe specials used in the plumbing installation shall be suitable and compatible with all respects to the pipe line to which fittings and specials are fixed.	Note			
c	All sanitary fittings & fixtures shall be American Standards or approved equivalent.	Note			
e	**Rates for sanitary fittings shall include for:-**				
e.01	Fittings such as taps, waste water outlet, internal overflows etc. and supporting brackets, incidental materials for fixing, unless otherwise measured separately.	Note			

Item	Description	Qty	Unit	Rate	Amount
e.02	Assembling, jointing together fixing components parts, and jointing to pipes including necessary coupling and for leaving perfectly clean and in perfect working order on completion.	Note			
e.03	Jointing and connecting of pipes to sanitary fittings.	Note			
e.04	Testing and commissioning of the installation.	Note			
e.05	Making good of the work disturbed.	Note			
e.06	Submitting samples for the approval of the Engineer.	Note			
e.07	Protecting the works.	Note			
	Vent Pipes				
	PVC pipe with all necessary fittings and fixings				
K.1	100mm diameter Vent pipe	3.50	m		-
K.2	100mm Diameter Vent Cowl	1	No		-
K	**Ventilation**		**To Summary**		**-**