

Bill of Quantities, Specification & Cost Estimate

for
Togochale MRC Center

IOM



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GRAND SUMMARY

Item No	Project Section	Total Amount
1	Male Sleeping Quarter	
2	Female Sleeping Quarter	
3	Office	
4	Cafeteria With Kitchen	
5	Toilet & Shower (Ladies & Gents) x 2	
6	Cloth Washing & Drying Area (Ladies & Gents) x 2	
7	Site Work	
TOTAL		
VAT 15%		
GRAND TOTAL		

In Words /

MALE SLEEPING QUARTER

Item No	Description	Total Amount
	A. Sub Structure	
A.1	Excavation and Earth Work	
A.2	Concrete Work	
A.3	Masonry Work	
	Sub Total A	
	B.Super Structure	
B.1	Concrete Work	
B.2	Block work	
B.3	Roofing	
B.4	Carpentry and Joinery	
B.5	Metal Work	
B.6	Finishing	
B.7	Painting	
B.8	Electrical Installation	
	Sub Total B	
	Grand Total A + B	

Item No	Description	Unit	Qty	Rate	Amount
A. Sub Structure					
1. Excavation and Earth Work					
1.1	soil. Site Clearing to a depth of 20cm to remove top organic	m ²	432.26		
1.2	Bulk excavation for a depth of 80 cm to reduced level	m ³	188.99		
1.3	Trench excavation in ordinary soil up to a depth of 150 cm	m ³	179.54		
1.4	Back Fill Under hard core with selected material	m ³	167.20		
1.5	Back fill around stone masonry with selected material	m ³	134.65		
1.6	Cart away Surplus Excavated Material 5km Away from the compound	m ³	454.99		
1.7	25 cm thick Hard CoreHardcore	m ²	334.40		
Total Carried to Summary Eth.Birr					
2. Concrete Work					
2.1	C-5 lean concrete Under				
	a.Stone Masnory	m ²	59.85		
	b.Grade beam	m ²	18.33		
2.2	C-25 concrete In				
	a.Grade Beam	m ³	9.58		
	b.10cm thick Ground Floor slab	m ²	284.24		
2.3	Formwork				
	Grade Beam	m ²	95.75		
2.4	Reinforcement				
	a.Diameter 8 mm def. re Bars	kg	841.46		
	b.Diameter 12 mm def. re Bars	kg	397.04		
Total Carried to Summary Eth.Birr					
3.Masonry Work					
3.1	50cm thick Stone Masonry below NGL	m ³	89.77		
3.2	50cm thick Stone Masonry above NGL	m ³	32.82		
Total Carried to Summary Eth.Birr					
B. Super Structure					
1. Concrete Work					
1.1	C-25 concrete				
	a.Elevation column	m ³	2.58		
	b.Beams and lintels	m ³	7.18		
1.2	Formwork				
	a.For elevation column	m ²	51.61		
	b.For Beams & Lintels	m ²	81.39		
1.3	Reinforcement				
	a.Diameter 8 mm def. Re Bars	kg	209.28		
	b.Diameter 12 mm def. Re Bars	kg	514.25		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
2.Block work					
2.1	20 cm. thick class-C H.C.B wall.	m ²	244.91		
Total Carried to Summary Eth.Birr					
3.Roofing					
3.1	EGA 300 0.4mm ,Roof Measured in Horizontal Projection	m ²	378.00		
Total Carried to Summary Eth.Birr					
4.Carpentry and Joinery					
4.1 Truss Members					
a	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml	257.91		
b	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml	84.52		
c	Diam. 5x 7cm thick best quality sawn pine purlin	ml	237.57		
4.2	25cm wide Zigba Wood Facia Board Including one coat of Varnish & two coats of synthetic paint	ml	49.74		
Total Carried to Summary Eth.Birr					
5.Aluminum work					
5.1 Adonized Aluminium Door					
a	D 1 SIZE 200 * 250	pc	3.00		
5.2 Adonized Aluminium Window					
a	W 1 SIZE 120 * 180	pc	36.00		
Total Carried to Summary Eth.Birr					
6.Finishing Work					
6.1 Wall finishing					
a	Apply Two coats of external plastering with cement mortar 1:3 ratio	m ²	391.85		
b	Apply Two coats of internal plastering with cement mortar 1:3 ratio	m ²	11.54		
c	Apply Gypsum finish to internal vertical surface	m ²	11.54		
e	32cm wide marble window sill	ml	45.00		
6.2 Floor finishing					
a	6 mm thick porcelain tile flooring	m ²	352.08		
b	7 mm thick porcelain tile Skirting	ml	175.03		
d	100cm Wide Mass Concrete Pavement Around the Building Including All Excavations,Leveling & 25cm Hardcore below the Mass Concrete.	m ²	89.20		
6.3 Ceiling Finishing					
a	Suspended 8mm thick chipwood Ceiling for all Rooms Including 4*5 Zigba Battens	m ²	305.28		
b	Suspended PVC Ceiling for Varandah Including 4*5 Zigba Battens	m ²	85.92		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
7.Painting					
7.1	Apply three coats of Plastic paint to Internal wall surface	m ²	11.54		
7.2	Apply three coats of Plastic paint to Chipwood Ceiling	m ²	305.28		
7.3	Quartz Paint to External wall surface	m ²	391.85		
Total Carried to Summary Eth.Birr					
8.Electrical installation					
8.1 Distribution Board					
a	Flush mounted Sub distribution board SDB with lockable door, earthing lead cable terminal,connectors and all the necessary accessories consisting of:-				
	1 pc 3 x 40A, MCCB, 3Phase				
	1 pc 1 x 20A, MCCB, 1Phase				
	6 pc 1 x 16A, MCCB, 1Phase				
	10 pc 1 x 10A, MCCB, 1Phase	Nº	1.00		
8.2 Light points					
	Flush mounted light points fed through PVC insulated conductors of 3x2.5 mm ² inside PVC conduits of 16mm diameter,including junction boxes with covers insulating	Nº	32.00		
8.3 Extra Over Light Points for Flush Mounted Switch (Type Legrand or Equivalent)					
a	Flush mounting single switch	No	5.00		
b	Flush mounting double switch	No	1.00		
c	Flush mounting Intermediate switch	No	5.00		
d	Flush mounting two -way switch	No	2.00		
8.4 Flush Mounted Socket Outlet Points					
	10-16A/1P socket outlet points fed through PVC insulated conductors of 3x2.5mm ² inside PVC conduit of 16mm diameter including junction boxes with covers and insulating screw cap connectors.	No	25.00		
8.5 Flush Mounted Socket Outlets with Earth Contact (Type Legrand or Equivalent)					
a	Flush mounting twin socket outlet of 10-16A/1P,	No	25.00		
8.6 Light Fittings and Lamps					
	Connected and tested including lamps and accessories complete, all as specified or described.				

Item No	Description	Unit	Qty	Rate	Amount
a	PELSAN 5012.908 With 1 x 'TLD' 36W/840 Fluorescent Lamp	No	32.00		
8.7	CONDUITS AND PIPES				
a	PVC of 110mm diameter.	ml	9.60		
b	PVC of 50mm diameter.	ml	24.00		
8.8	MANHOLE				
a	Manhole in brick or masonry ,Size 800 * 800 * 700mm	No.	1.00		
8.9	FEEDER CABLES				
	PVC sheathed PVC insulated power cable type NYY 0.6/1KV or equivalent to be drawn inside cement or PVC conduit (measured elsewhere)				
	(a) 3 * 25 mm ²	ml	14.40		
	(b) 2 * 10 mm ²	ml	18.00		
8.10	Earthing				
a	Earthing system: materials, supplied, installed, connected and tested, complete, including conductors, busbar, straps, test points, connectors, and all necessary accessories, complete all as specified and / or shown on drawings.	Ls	1.00		
Total Carried to Summary Eth.Birr					

FEMALE SLEEPING QUARTER

Item No	Description	Total Amount
	A. Sub Structure	
A.1	Excavation and Earth Work	
A.2	Concrete Work	
A.3	Masonry Work	
	Sub Total A	
	B.Super Structure	
B.1	Concrete Work	
B.2	Block work	
B.3	Roofing	
B.4	Carpentry and Joinery	
B.5	Metal Work	
B.6	Finishing	
B.7	Painting	
B.8	Electrical Installation	
	Sub Total B	
	Grand Total A + B	

Item No	Description	Unit	Qty	Rate	Amount
A. Sub Structure					
1. Excavation and Earth Work					
1.1	soil. Site Clearing to a depth of 20cm to remove top organic	m ²	411.12		
1.2	Bulk excavation for a depth of 80 cm to reduced level	m ³	147.41		
1.3	Trench excavation in ordinary soil up to a depth of 150 cm	m ³	223.88		
1.4	Back Fill Under hard core with selected material	m ³	107.73		
1.5	Back fill around stone masonry with selected material	m ³	111.94		
1.6	Cart away Surplus Excavated Material 5km Away from the compound	m ³	453.51		
1.7	25 cm thick Hard CoreHardcore	m ²	269.33		
Total Carried to Summary Eth.Birr					
2. Concrete Work					
2.1	C-5 lean concrete Under				
	a.Stone Masnory	m ²	74.63		
	b.Grade beam	m ²	29.85		
2.2	C-25 concrete In				
	a.Grade Beam	m ³	11.94		
	b.10cm thick Ground Floor slab	m ²	269.33		
2.3	Formwork				
	Grade Beam	m ²	119.40		
2.4	Reinforcement				
	a.Diameter 8 mm def. re Bars	kg	1117.89		
	b.Diameter 12 mm def. re Bars	kg	527.47		
Total Carried to Summary Eth.Birr					
3.Masonry Work					
3.1	50cm thick Stone Masonry below NGL	m ³	111.94		
3.2	50cm thick Stone Masonry above NGL	m ³	37.31		
Total Carried to Summary Eth.Birr					
B. Super Structure					
1. Concrete Work					
1.1	C-25 concrete				
	a.Elevation column	m ³	2.30		
	b.Beams and lintels	m ³	8.96		
1.2	Formwork				
	a.For elevation column	m ²	46.08		
	b.For Beams & Lintels	m ²	119.40		
1.3	Reinforcement				
	a.Diameter 8 mm def. Re Bars	kg	288.41		
	b.Diameter 12 mm def. Re Bars	kg	708.27		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
2.Block work					
2.1	20 cm. thick class-C H.C.B wall.	m ²	198.25		
Total Carried to Summary Eth.Birr					
3.Roofing					
3.1	EGA 300 0.4mm ,Roof Measured in Horizontal Projection	m ²	344.28		
Total Carried to Summary Eth.Birr					
4.Carpentry and Joinery					
4.1 Truss Members					
a	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml	291.82		
b	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml	95.63		
c	Diam. 5x 7cm thick best quality sawn pine purlin	ml	268.80		
4.2	25cm wide Zigba Wood Facia Board Including one coat of Varnish & two coats of synthetic paint	ml	84.82		
Total Carried to Summary Eth.Birr					
5.Aluminum work					
5.1 Adonized Aluminium Door					
a	D 1 SIZE 190 * 250	pc	2.00		
5.2 Adonized Aluminium Window					
a	W 1 SIZE 120 * 180	pc	22.00		
Total Carried to Summary Eth.Birr					
6.Finishing Work					
6.1 Wall finishing					
a	Apply Two coats of external plastering with cement mortar 1:3 ratio	m ²	174.57		
b	Apply Two coats of internal plastering with cement mortar 1:3 ratio	m ²	189.37		
c	Apply Gypsum finish to internal vertical surface	m ²	189.37		
e	32cm wide marble window sill	ml	27.50		
6.2 Floor finishing					
a	6 mm thick porcelain tile flooring	m ²	256.00		
b	7 mm thick porcelain tile Skirting	ml	118.41		
d	100cm Wide Mass Concrete Pavement Around the Building Including All Excavations,Leveling & 25cm Hardcore below the Mass Concrete.	m ²	42.01		
6.3 Ceiling Finishing					
a	Suspended 8mm thick chipwood Ceiling for all Rooms Including 4*5 Zigba Battens	m ²	213.62		
b	Suspended PVC Ceiling for Varandah Including 4*5 Zigba Battens	m ²	42.38		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
	7.Painting				
7.1	Apply three coats of Plastic paint to Internal wall surface	m ²	189.37		
7.2	Apply three coats of Plastic paint to Chipwood Ceiling	m ²	213.62		
7.3	Quartz Paint to External wall surface	m ²	174.57		
	Total Carried to Summary Eth.Birr				
	8.Electrical installation				
8.1	Distribution Board				
a	Flush mounted Sub distribution board SDB with lockable door, earthing lead cable terminal,connectors and all the necessary accessories consisting of:-				
	1 pc 3 x 40A, MCCB, 3Phase				
	1 pc 1 x 20A, MCCB, 1Phase				
	4 pc 1 x 16A, MCCB, 1Phase				
	3 pc 1 x 10A, MCCB, 1Phase	Nº	1.00		
8.2	Light points				
	Flush mounted light points fed through PVC insulated conductors of 3x2.5 mm ² inside PVC conduits of 16mm diameter,including junction boxes with covers insulating	Nº	23.00		
8.3	Extra Over Light Points for Flush Mounted Switch (Type Legrand or Equivalent)				
a	Flush mounting single switch	No	4.00		
b	Flush mounting double switch	No	3.00		
c	Flush mounting Intermediate switch	No	2.00		
8.4	Flush Mounted Socket Outlet Points				
	10-16A/1P socket outlet points fed through PVC insulated conductors of 3x2.5mm ² inside PVC conduit of 16mm diameter including junction boxes with covers and insulating screw cap connectors.	No	18.00		
8.5	Flush Mounted Socket Outlets with Earth Contact (Type Legrand or Equivalent)				
a	Flush mounting twin socket outlet of 10-16A/1P,	No	18.00		
8.6	Light Fittings and Lamps				
	Connected and tested including lamps and accessories complete, all as specified or described.				
a	PELSAN 5012.908 With 1 x 'TLD' 36W/840 Fluorescent Lamp	No	23.00		
8.7	CONDUITS AND PIPES				
a	PVC of 110mm diameter.	ml	6.00		
b	PVC of 50mm diameter.	ml	6.00		
8.8	MANHOLE				
a	Manhole in brick or masonry ,Size 800 * 800 * 700mm	No.	1.00		
8.9	FEEDER CABLES				

Item No	Description	Unit	Qty	Rate	Amount
	PVC sheathed PVC insulated power cable type NYY 0.6/1KV or equivalent to be drawn inside cement or PVC conduit (measured elsewhere)				
	(a) 5 * 10 mm ²	ml	8.00		
	(b) 3 * 6 mm ²	ml	25.00		
8.10	Earthing				
a	Earthing system: materials, supplied, installed, connected and tested, complete, including conductors, busbar, straps, test points, connectors, and all necessary accessories, complete all as specified and / or shown on drawings.	Ls	1.00		
	Total Carried to Summary Eth.Birr				

OFFICE

Item No	Description	Total Amount
	A. Sub Structure	
A.1	Excavation and Earth Work	
A.2	Concrete Work	
A.3	Masonry Work	
	Sub Total A	
	B. Super Structure	
B.1	Concrete Work	
B.2	Block work	
B.3	Roofing	
B.4	Carpentry and Joinery	
B.5	Metal Work	
B.6	Finishing	
B.7	Painting	
B.8	Sanitary Installation	
B.9	Electrical Installation	
	Sub Total B	
	Grand Total A + B	

Item No	Description	Unit	Qty	Rate	Amount
A. Sub Structure					
1. Excavation and Earth Work					
1.1	Site Clearing to a depth of 20cm to remove top organic soil.	m ²	107.80		
1.2	Bulk excavation for a depth of 80 cm to reduced level	m ³	41.04		
1.3	Trench excavation in ordinary soil up to a depth of 150 cm	m ³	61.65		
1.4	Back Fill Under hard core with selected material	m ³	36.44		
1.5	Back fill around stone masonry with selected material	m ³	13.87		
1.6	Cart away Surplus Excavated Material 5km Away from the compound	m ³	124.25		
1.7	25 cm thick Hard CoreHardcore	m ²	64.20		
Total Carried to Summary Eth.Birr					
2. Concrete Work					
2.1	C-5 lean concrete Under				
	a.Stone Masnory	m ²	20.55		
	b.Grade beam	m ²	8.22		
2.2	C-25 concrete In				
	a.Grade Beam	m ³	3.29		
	b. 10cm thick Ground Floor slab	m ³	64.20		
2.3	Formwork				
	Grade Beam	m ²	32.88		
2.4	Reinforcement				
	a.Diameter 8 mm def. re Bars	kg	509.74		
	b.Diameter 12 mm def. re Bars	kg	161.62		
Total Carried to Summary Eth.Birr					
3.Masonry Work					
3.1	50cm thick Stone Masonry below NGL	m ³	30.83		
3.2	50cm thick Stone Masonry above NGL	m ³	12.33		
Total Carried to Summary Eth.Birr					
B. Super Structure					
1. Concrete Work					
1.1	C-25 concrete				
	a.Elevation column	m ³	0.77		
	b.Beams and lintels	m ³	2.47		
1.2	Formwork				
	a.For elevation column	m ²	15.36		
	b.For Beams & Lintels	m ²	32.88		
1.3	Reinforcement				
	a.Diameter 8 mm def. Re Bars	kg	112.81		
	b.Diameter 12 mm def. Re Bars	kg	236.21		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
2.Block work					
2.1	20 cm. thick class-C H.C.B wall.	m ²	111.02		
2.2	15 cm. thick class-C H.C.B wall.	m ²	27.30		
2.3	10 cm. thick class-C H.C.B wall.	m ²	16.95		
Total Carried to Summary Eth.Birr					
3.Roofing					
3.1	EGA 300 0.4mm ,Roof Measured in Horizontal Projection	m ²	91.08		
Total Carried to Summary Eth.Birr					
4.Carpentry and Joinery					
4.1 Truss Members					
a	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml	142.80		
b	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml	63.10		
c	Diam. 5x 7cm thick best quality sawn pine purlin	ml	158.40		
4.2	25cm wide Zigba Wood Facia Board Including one coat of Varnish & two coats of synthetic paint	ml	40.60		
Total Carried to Summary Eth.Birr					
5.Aluminum work					
5.1 Adonized Aluminium Door					
a	D 1 SIZE 100 * 250	pc	1.00		
b	D 2 SIZE 90 * 250	pc	2.00		
c	D 3 SIZE 70 * 250	pc	2.00		
5.2 Adonized Aluminium Window					
a	W 1 SIZE 200 * 180	pc	2.00		
b	W 2 SIZE 58 * 130	pc	2.00		
Total Carried to Summary Eth.Birr					
6.Finishing Work					
6.1 Wall finishing					
a	Apply Two coats of external plastering with cement mortar 1:3 ratio	m ²	121.26		
b	Apply Two coats of internal plastering with cement mortar 1:3 ratio	m ²	222.72		
c	Apply Gypsum finish to internal vertical surface	m ²	214.68		
d	6mm thick Ceramic Wall Tile	m ²	8.04		
e	32cm wide marble window sill	ml	5.40		
6.2 Floor finishing					
a	6 mm thick porcelain tile flooring	m ²	57.66		
b	7 mm thick porcelain tile Skirting	ml	20.81		
c	100cm Wide Mass Concrete Pavement Around the Building Including All Excavations,Leveling & 25cm Hardcore below the Mass Concrete.	m ²	39.40		
6.3 Ceiling Finishing					
a	Suspended 8mm thick chipwood Ceiling for all Rooms Including 4*5 Zigba Battens	m ²	43.26		
b	Suspended PVC Ceiling for Varandah Including 4*5 Zigba Battens	m ²	14.40		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
7.Painting					
7.1	Apply three coats of Plastic paint to Internal wall surface	m ²	222.72		
7.2	Apply three coats of Plastic paint to Chipwood Ceiling	m ²	43.26		
7.3	Quartz Paint to External wall surface	m ²	121.26		
Total Carried to Summary Eth.Birr					
8.Sanitary Works					
8.1 Water Supply Pipes					
Supply, lay and connect RAK Brand Polypropylene pipe (PPR) pressure pipes with metallic insert					
b	Outer diameter 20mm	ml	18.00		
c	Outer diameter 25mm	ml	20.00		
8.2 Angle Valve (RAK)					
a	Supply and fix chrome plated service (angle) valves	N ^o	10.00		
8.3 Gate Valve					
Supply and fix gate valve made of bronze,complete with all accessories					
a.1.	Internal dia.20mm (25mm)	pcs	2.00		
a.2	Internal dia.16mm (20mm)	pcs	10.00		
8.4 Waste Drainage System					
Supply lay and connect PVC pipes for foul drainage. The quality of material should satisfy the requirements of British Standard					
a.1	Internal dia. 50 mm	ml	22.00		
a.2	Internal dia. 110 mm	ml	23.00		
8.5 Sanitary Appliances					
Hand Wash Basin					
Supply and fix Hand Wash Basin , made from white vitreous China ,with pedestal, Size:- 500 x 400 mm. Gold Dragon or Equivalent					
a		N ^o	2.00		
W.C					
b	Supply and fix W.C made from Vitroues China Clay	No	2.00		
Crystal Glass Mirror					
Supply and fix approved quality frame less crystal glass mirror, back-silvered, minimum 6mm thick. Complete with theft resistant concealed wall fastening fittings and other accessories. Size :-500x400mm					
d		N ^o	2.00		
Soap Holder					
Supply and fix soap holder made of white vitreous china,complete with all accessories.					
e		N ^o	4.00		
Towel Hanger					
Supply and fix towel hanger made of chrome plated steel with best quality complete with all accessories.					
f		N ^o	2.00		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
	9.Electrical installation				
	9.1 Distribution Board				
a	Flush mounted Sub distribution board SDB with lockable door, earthing lead cable terminal,connectors and all the necessary accessories consisting of:-				
	1 pc 1 x 32A, MCCB, 1Phase				
	2 pc 1 x 16A, MCCB, 1Phase				
	1 pc 1 x 10A, MCCB, 1Phase	Nº	1.00		
	9.2 Light points				
	Flush mounted light points fed through PVC insulated conductors of 3x2.5 mm ² inside PVC conduits of 16mm diameter,including junction boxes with covers insulating screw cap connectors.	Nº	14.00		
	9.3 (Type Legrand or Equivalent)				
a	Flush mounting single switch	No	3.00		
b	Flush mounting double switch	No	3.00		
	9.4 Flush Mounted Socket Outlet Points				
	10-16A/1P socket outlet points fed through PVC insulated conductors of 3x2.5mm ² inside PVC conduit of 16mm diameter including junction boxes with covers and insulating screw cap connectors.	No	8.00		
	9.5 (Type Legrand or Equivalent)				
a	Flush mounting twin socket outlet of 10-16A/1P,	No	8.00		
	9.6 Light Fittings and Lamps				
	Connected and tested including lamps and accessories complete, all as specified or described.				
a	PELSAN 5012.908 With 1 x 'TLD' 36W/840 Fluorescent Lamp	No	10.00		
b	RZB 20146.922 WITH 1xTC-D 13W LAMP.	No	4.00		
	9.7 CONDUITS AND PIPES				
a	PVC of 110mm diameter.	ml	6.00		
b	PVC of 50mm diameter.	ml	12.00		
	9.8 MANHOLE				
a	Manhole in brick or masonry ,Size 800 * 800 * 700mm	No.	1.00		
	9.9 FEEDER CABLES				
	PVC sheathed PVC insulated power cable type NYY 0.6/1KV or equivalent to be drawn inside cement or PVC conduit (measured elsewhere)				
	(a) 1 * 10 mm ²	ml	12.00		
	9.10 Earthing				
a	Earthing system: materials, supplied, installed, connected and tested, complete, including conductors, busbar, straps, test points, connectors, and all necessary accessories, complete all as specified and / or shown on drawings.	Ls	1.00		
	Total Carried to Summary Eth.Birr				

Cafeteria

Item No	Description	Total Amount
	A. Sub Structure	
A.1	Excavation and Earth Work	
A.2	Concrete Work	
A.3	Masonry Work	
	Sub Total A	
	B.Super Structure	
B.1	Concrete Work	
B.2	Block work	
B.3	Roofing	
B.4	Carpentry and Joinery	
B.5	Metal Work	
B.6	Finishing	
B.7	Painting	
B.8	Sanitary Installation	
B.9	Electrical Installation	
	Sub Total B	
	Grand Total A + B	

Item No	Description	Unit	Qty	Rate	Amount
A. Sub Structure					
1. Excavation and Earth Work					
1.1	Site Clearing to a depth of 20cm to remove top organic soil.	m ²	344.57		
1.2	Bulk excavation for a depth of 80 cm to reduced level	m ³	147.94		
1.3	Trench excavation in ordinary soil up to a depth of 150 cm	m ³	131.76		
1.4	Back Fill Under hard core with selected material	m ³	77.06		
1.5	Back fill around stone masonry with selected material	m ³	65.88		
1.6	Cart away Surplus Excavated Material 5km Away from the compound	m ³	348.61		
1.7	25 cm thick Hard Core/Hardcore	m ²	154.12		
Total Carried to Summary Eth.Birr					
2. Concrete Work					
2.1	C-5 lean concrete Under				
	a. Stone Masonry	m ²	43.92		
	b. Grade beam	m ²	17.57		
2.2	C-25 concrete In				
	a. Grade Beam	m ³	7.03		
	b. 10cm thick Ground Floor slab	m ²	154.12		
2.3	Formwork				
	Grade Beam	m ²	70.27		
2.4	Reinforcement				
	a. Diameter 8 mm def. re Bars	kg	985.00		
	b. Diameter 12 mm def. re Bars	kg	512.00		
Total Carried to Summary Eth.Birr					
3. Masonry Work					
3.1	50cm thick Stone Masonry below NGL	m ³	65.88		
3.2	50cm thick Stone Masonry above NGL	m ³	21.96		
Total Carried to Summary Eth.Birr					
B. Super Structure					
1. Concrete Work					
1.1	C-25 concrete				
	a. Elevation column	m ³	1.66		
	b. Beams and lintels	m ³	5.27		
1.2	Formwork				
	a. For elevation column	m ²	33.28		
	b. For Beams & Lintels	m ²	52.70		
1.3	Reinforcement				
	a. Diameter 8 mm def. Re Bars	kg	136.25		
	b. Diameter 12 mm def. Re Bars	kg	523.00		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amoun
2.Block work					
2.1	20 cm. thick class-C H.C.B wall.	m ²	238.85		
2.2	15 cm. thick class-C H.C.B wall.	m ²	15.97		
Total Carried to Summary Eth.Birr					
3.Roofing					
3.1	EGA 300 0.4mm ,Roof Measured in Horizontal Projection	m ²	255.76		
Total Carried to Summary Eth.Birr					
4.Carpentry and Joinery					
4.1 Truss Members					
a	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml	319.61		
b	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml	104.74		
c	Diam. 5x 7cm thick best quality sawn pine purlin	ml	294.40		
4.2	25cm wide Zigba Wood Facia Board Including one coat of Varnish & two coats of synthetic paint	ml	71.54		
Total Carried to Summary Eth.Birr					
5.Aluminum work					
5.1 Adonized Aluminium Door					
a	D 1 SIZE 180 * 250	pc	3.00		
b	D 2 SIZE 100 * 250	pc	2.00		
c	D 3 SIZE 80 * 250	pc	2.00		
5.2 Adonized Aluminium Window					
a	W 1 SIZE 120 * 120	pc	3.00		
b	W 2 SIZE 170 * 180	pc	2.00		
c	W 3 SIZE 280 * 180	pc	2.00		
d	W 4 SIZE 240 * 180	pc	2.00		
Total Carried to Summary Eth.Birr					
6.Finishing Work					
6.1 Wall finishing					
a	Apply Two coats of external plastering with cement mortar 1:3 ratio	m ²	254.82		
b	Apply Two coats of internal plastering with cement mortar 1:3 ratio	m ²	286.75		
c	Apply Gypsum finish to internal vertical surface	m ²	286.75		
d	6mm thick Ceramic Wall Tile	m ²	57.65		
e	32cm wide marble window sill	ml	17.85		

Item No	Description	Unit	Qty	Rate	Amount
6.2	Floor finishing				
a	6 mm thick porcelain tile flooring	m ²	31.83		
b	48mm thick Cement Sand Screed	m ²	168.99		
b	7 mm thick porcelain tile Skirting	ml	53.84		
c	100cm Wide Mass Concrete Pavement Around the Building Including All Excavations, Leveling & 25cm Hardcore below the Mass Concrete.	m ²	33.90		
6.3	Ceiling Finishing				
a	Suspended 8mm thick chipwood Ceiling for all Rooms Including 4*5 Zigba Battens	m ²	168.99		
b	Suspended PVC Ceiling for Varandah Including 4*5 Zigba Battens	m ²	31.83		
Total Carried to Summary Eth.Birr					
	7.Painting				
7.1	Apply three coats of Plastic paint to Internal wall surface	m ²	286.75		
7.2	Apply three coats of Plastic paint to Chipwood Ceiling	m ²	168.99		
7.3	Quartz Paint to External wall surface	m ²	254.82		
Total Carried to Summary Eth.Birr					
	8.Sanitary Works				
8.1	Water Supply Pipes				
a	Supply, lay and connect RAK Brand Polypropylene pipe (PPR) pressure pipes with metallic insert				
b	Outer diameter 20mm	ml	18.00		
c	Outer diameter 25mm	ml	20.00		
8.2	Angle Valve (RAK)				
a	Supply and fix chrome plated service (angle) valves	N ^o	10.00		
8.3	Gate Valve				
a	Supply and fix gate valve made of bronze, complete with all accessories				
a.1	Internal dia.20mm (25mm)	pcs	2.00		
a.2	Internal dia.16mm (20mm)	pcs	10.00		
8.4	Waste Drainage System				
a	Supply lay and connect PVC pipes for foul drainage. The quality of material should satisfy the requirements of British Standard				
a.1	Internal dia. 50 mm	ml	22.00		
a.2	Internal dia. 110 mm	ml	23.00		
8.5	Sanitary Appliances				
	Kitchen Sink				
a	Supply and fix Double Bowl Kitchen Sink Size 180 * 58	N ^o	2.00		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amoun
	9.Electrical installation				
9.1	Distribution Board				
a	Flush mounted Sub distribution board SDB with lockable door, earthing lead cable terminal,connectors and all the necessary accessories consisting of:-				
	1 pc 3 x 32A, MCCB, 3Phase				
	3 pc 1 x 16A, MCCB, 1Phase				
	3 pc 1 x 10A, MCCB, 1Phase	Nº	1.00		
9.2	Light points				
	Flush mounted light points fed through PVC insulated conductors of 3x2.5 mm ² inside PVC conduits of 16mm diameter,including junction boxes with covers insulating	Nº	29.00		
8.3	Extra Over Light Points for Flush Mounted Switch (Type Legrand or Equivalent)				
a	Flush mounting single switch	No	4.00		
b	Flush mounting double switch	No	2.00		
c	Flush mounting Intermediate switch	No	2.00		
d	Flush mounting two -way switch	No	2.00		
8.4	Flush Mounted Socket Outlet Points				
	10-16A/1P socket outlet points fed through PVC insulated conductors of 3x2.5mm ² inside PVC conduit of 16mm diameter including junction boxes with covers and insulating screw cap connectors.	No	6.00		
8.5	Flush Mounted Socket Outlets with Earth Contact (Type Legrand or Equivalent)				
a	Flush mounting twin socket outlet of 10-16A/1P,	No	12.00		
b	Flush mounting water proof socket outlet of 10-16A/1P,	No	1.00		
c	Flush mounting water heater socket outlet of 20-25A/1P,	No	2.00		
d	Flush mounting socket outlet of 25A/1P,	No	2.00		
e	Flush mounting socket outlet of 3 x 20A/3P,	No	1.00		
f	Flush mounting socket outlet of 3 x 25A/3P,	No	2.00		
8.6	Light Fittings and Lamps				
	Connected and tested including lamps and accessories complete, all as specified or described.				
a	PELSAN 5012.908 With 1 x 'TLD' 36W/840 Fluorescent Lamp	No	3.00		
b	PELSAN 5012.908 With 2 x 'TLD' 36W/840 Fluorescent Lamp	No	3.00		
c	PELSAN 5014.726 With 4 x 'TLD' 18W/840 Fluorescent Lamp	No	23.00		
8.7	CONDUITS AND PIPES				
a	PVC of 110mm diameter.	ml	12.00		
b	PVC of 50mm diameter.	ml	30.00		

Item No	Description	Unit	Qty	Rate	Amoun
8.8	MANHOLE				
a	Manhole in brick or masonry ,Size 800 * 800 * 700mm	No.	1.00		
8.9	FEEDER CABLES				
	PVC sheathed PVC insulated power cable type NYY 0.6/1KV or equivalent to be drawn inside cement or PVC conduit (measured elsewhere)				
	(a) 2 * 10 mm ²	ml	25.00		
8.10	Earthing				
a	Earthing system: materials, supplied, installed, connected and tested, complete, including conductors, busbar, straps, test points, connectors, and all necessary accessories, complete all as specified and / or shown on drawings.	Ls	1.00		
	Total Carried to Summary Eth.Birr				

Male Toilet & Shower

Item No	Description	Total Amount
	A. Sub Structure	
A.1	Excavation and Earth Work	
A.2	Concrete Work	
A.3	Masonry Work	
	Sub Total A	
	B.Super Structure	
B.1	Concrete Work	
B.2	Block work	
B.3	Roofing	
B.4	Carpentry and Joinery	
B.5	Metal Work	
B.6	Finishing	
B.7	Painting	
B.8	Sanitary Installation	
B.9	Electrical Installation	
	Sub Total B	
	Grand Total A + B	

Item No	Description	Unit	Qty	Rate	Amount
A. Sub Structure					
1. Excavation and Earth Work					
1.1	soil. Site Clearing to a depth of 20cm to remove top organic	m ²	46.62		
1.2	Pit excavation for a toilet as per the Design	m ³	108.54		
1.3	Back fill around stone masonry with selected material	m ³	38.00		
1.4	Cart away Surplus Excavated Material 5km Away from the compound	m ³	117.87		
1.5	25 cm thick Hard CoreHardcore	m ²	33.92		
Total Carried to Summary Eth.Birr					
2. Concrete Work					
2.1	C-25 concrete In				
	a. Grade Beam	m ³	1.62		
	b. 10cm thick Ground Floor slab	m ²	33.92		
2.2	Formwork				
	Grade Beam	m ²	14.04		
	10cm thick Ground Floor slab	m ²	33.92		
2.4	Reinforcement				
	a. Diameter 8 mm def. re Bars	kg	532.00		
	b. Diameter 12 mm def. re Bars	kg	225.00		
Total Carried to Summary Eth.Birr					
3. Masonry Work					
3.1	50cm thick Stone Masonry below NGL	m ³	48.00		
3.2	50cm thick Stone Masonry above NGL	m ³	13.00		
Total Carried to Summary Eth.Birr					
B. Super Structure					
1. Concrete Work					
1.1	C-25 concrete				
	a. Elevation column	m ³	1.02		
	b. Beams and lintels	m ³	2.47		
1.2	Formwork				
	a. For elevation column	m ²	20.48		
	b. For Beams & Lintels	m ²	32.88		
1.3	Reinforcement				
	a. Diameter 8 mm def. Re Bars	kg	112.81		
	b. Diameter 12 mm def. Re Bars	kg	236.21		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
2.Block work					
2.1	20 cm. thick class-C H.C.B wall.	m ²	37.50		
2.2	15 cm. thick class-C H.C.B wall.	m ²	15.65		
2.3	10 cm. thick class-C H.C.B wall.	m ²	27.48		
Total Carried to Summary Eth.Birr					
3.Roofing					
3.1	EGA 300 0.4mm ,Roof Measured in Horizontal Projection	m ²	14.18		
Total Carried to Summary Eth.Birr					
4.Carpentry and Joinery					
4.1 Truss Members					
a	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml	56.65		
b	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml	38.10		
c	Diam. 5x 7cm thick best quality sawn pine purlin	ml	76.00		
4.2	25cm wide Zigba Wood Facia Board Including one coat of Varnish & two coats of synthetic paint	ml	23.52		
Total Carried to Summary Eth.Birr					
5.Aluminum work					
5.1 Adonized Aluminium Door					
a	D 1 SIZE 80 * 220	pc	8.00		
5.2 Adonized Aluminium Window					
a	W 1 SIZE 70 * 142	pc	2.00		
Total Carried to Summary Eth.Birr					
6.Finishing Work					
6.1 Wall finishing					
a	Apply Two coats of external plastering with cement mortar 1:3 ratio	m ²	37.50		
b	Apply Two coats of internal plastering with cement mortar 1:3 ratio	m ²	161.24		
c	6mm thick Ceramic Wall Tile	m ²	116.30		
d	32cm wide marble window sill	ml	9.00		
6.2 Floor finishing					
a	6 mm thick porcelain tile flooring	m ²	31.25		
b	100cm Wide Mass Concrete Pavement Around the Building Including All Excavations,Leveling & 25cm Hardcore below the Mass Concrete.	m ²	26.56		
6.3 Ceiling Finishing					
a	Suspended PVC Ceiling for Varandah Including 4*5 Zigba Battens	m ²	50.00		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
	7.Painting				
7.1	Quartz Paint to External wall surface	m ²	37.50		
	Total Carried to Summary Eth.Birr				
	8.Sanitary Works				
	8.1 Water Supply Pipes				
a	Supply, lay and connect RAK Brand Polypropylene pipe (PPR) pressure pipes with metallic insert				
b	Outer diameter 20mm	ml	18.00		
c	Outer diameter 25mm	ml	20.00		
	8.2 Angle Valve (RAK)				
a	Supply and fix chrome plated service (angle) valves	N ^o	10.00		
	8.3 Gate Valve				
a	Supply and fix gate valve made of bronze,complete with all accessories				
a.1.	Internal dia.20mm (25mm)	pcs	2.00		
a.2	Internal dia.16mm (20mm)	pcs	10.00		
	8.4 Waste Drainage System				
a	Supply lay and connect PVC pipes for foul drainage. The quality of material should satisfy the requirements of British Standard				
a.1	Internal dia. 50 mm	ml	22.00		
a.2	Internal dia. 110 mm	ml	23.00		
	8.5 Sanitary Appliances				
	Hand Wash Basin				
a	Supply and fix Hand Wash Basin , made from white vitreous China ,with pedestal, Size:- 500 x 400 mm. Gold Dragon or Equivalent	N ^o	2.00		
	W.C				
b1	Supply and fix Turkish Type W.C made from metallic alloy	No	2.00		
b2	Make a Traditonal latrine hole as per the design including its cover (used for during Emergency)	No	2.00		
c	Shower Tray Size 80 * 80 cm	No	2.00		
	Crystal Glass Mirror				
d	Supply and fix approved quality frame less crystal glass mirror, back-silvered, minimum 6mm thick. Complete with theft resistant concealed wall fastening fittings and other accessories. Size :-500x400mm	N ^o	2.00		
	Soap Holder				
e	Supply and fix soap holder made of white vitreous china,complete with all accessories.	N ^o	4.00		
	Towel Hanger				
f	Supply and fix towel hanger made of chrome plated steel with best quality complete with all accessories.	N ^o	4.00		
	Total Carried to Summary Eth.Birr				

Item No	Description	Unit	Qty	Rate	Amount
	9.Electrical installation				
8.1	Distribution Board				
a	Flush mounted Sub distribution board SDB with lockable door, earthing lead cable terminal,connectors and all the necessary accessories consisting of:-				
	1 pc 1 x 20A, MCCB, 1Phase				
	1 pc 1 x 10A, MCCB, 1Phase	Nº	1.00		
8.2	Light points				
	Flush mounted light points fed through PVC insulated conductors of 3x2.5 mm ² inside PVC conduits of 16mm diameter,including junction boxes with covers insulating screw cap connectors.	Nº	10.00		
8.3	Extra Over Light Points for Flush Mounted Switch (Type Legrand or Equivalent)				
a	Flush mounting single switch	No	12.00		
8.4	Flush Mounted Socket Outlet Points				
	10-16A/1P socket outlet points fed through PVC insulated conductors of 3x2.5mm ² inside PVC conduit of 16mm diameter including junction boxes with covers and insulating screw cap connectors.	No	2.00		
8.5	Flush Mounted Socket Outlets with Earth Contact (Type Legrand or Equivalent)				
a	Flush mounting twin socket outlet of 10-16A/1P,	No	2.00		
8.6	Light Fittings and Lamps				
	Connected and tested including lamps and accessories complete, all as specified or described.				
a	PELSAN 5012.908 With 1 x 'TLD' 36W/840 Fluorescent Lamp	No	2.00		
b	RZB 20146.922 WITH 1xTC-D 13W LAMP.	No	8.00		
8.7	CONDUITS AND PIPES				
a	PVC of 110mm diameter.	ml	6.00		
b	PVC of 50mm diameter.	ml	12.00		
8.8	MANHOLE				
a	Manhole in brick or masonry ,Size 800 * 800 * 700mm	No.	1.00		
8.9	FEEDER CABLES				
	PVC sheathed PVC insulated power cable type NYY 0.6/1KV or equivalent to be drawn inside cement or PVC conduit (measured elsewhere)				
	(a) 1 * 6 mm ²	ml	8.00		
Total Carried to Summary Eth.Birr					

Cloth Washing & Drying Area

Item No	Description	Total Amount
	A. Sub Structure	
A.1	Excavation and Earth Work	
A.2	Concrete Work	
A.3	Masonry Work	
	Sub Total A	
	B. Super Structure	
B.1	Concrete Work	
B.2	Block work	
B.3	Roofing	
B.4	Carpentry and Joinery	
B.5	Metal Work	
B.6	Finishing	
B.7	Painting	
B.8	Sanitary Installation	
B.9	Electrical Installation	
	Sub Total B	
	Grand Total A + B	

Item No	Description	Unit	Qty	Rate	Amount
	A. Sub Structure				
	1. Excavation and Earth Work				
1.1	Trench excavation in ordinary soil up to a depth of 100 cm including backfill & all other Related earth works	m ³	26.44		
1.2	25 cm thick Hard CoreHardcore	m ²	41.41		
	Total Carried to Summary Eth.Birr				
	2. Concrete Work				
2.1	C-5 lean concrete Under				
2.1.1	Grade beam	m ²	3.66		
2.2	C-25 concrete In				
2.2.1	Grade Beam	m ³	1.47		
2.2.2	Floor slab	m ²	62		
2.3	Formwork				
2.3.1	Grade Beam	m ²	23.45		
2.4	Reinforcement				
2.4.1	Diameter 8 mm def. re Bars	kg	157.5		
2.4.2	Diameter 12 mm def. re Bars	kg	247.5		
	Total Carried to Summary Eth.Birr				
	3. Masonry Work				
3.1	50cm thick Stone Masonry below NGL	m ³	5.99		
3.2	50cm thick Stone Masonry above NGL	m ³	5.00		
	Total Carried to Summary Eth.Birr				

Item No	Description	Unit	Qty	Rate	Amount
	B. Super Structure				
	1.Concrete Work				
1.1	C-25 concrete				
1.1.1	Elevation column	m ³	0.4		
1.1.2	Top tie Beams	m ³	1.1		
1.2	Formwork				
1.2.1	For elevation column	m ²	8.00		
1.2.2	For beams	m ²	14.4		
1.3	Reinforcement				
1.3.1	Diameter 8 mm def. Re Bars	kg	112		
1.3.2	Diameter 12 mm def. Re Bars	kg	130		
	Total Carried to Summary Eth.Birr				
	3.Roofing				
3.1	EGA 300/ 0.4mm ,Roof Measured in Horizontal Projection	m ²	33.138		
	Total Carried to Summary Eth.Birr				
	4.Carpentry and Joinery				
4.1	Truss Members				
a	Diam. 10-12 cm thick eucalyptus truss upper and lower chord	ml	45		
b	Diam. 8-10 cm thick eucalyptus truss diagonal and vertical member	ml	65		
c	Diam. 5x 7cm thick best quality sawn pine purlin	ml	42.5		
	Total Carried to Summary Eth.Birr				
6.2	Floor finishing				
a	48mm thick Cement Screed	m ²	14.70		
	Total Carried to Summary Eth.Birr				

Item No	Description	Unit	Qty	Rate	Amount
	8.Sanitary Works				
	Water Supply Pipes				
8.1	Supply, lay and connect Polypropylene pipe (PPR) pressure pipes with metallic insert				
a	Outer diameter 20mm	ml	8.00		
b	Outer diameter 25mm	ml	6.00		
8.2	Angle Valve				
a	Supply and fix chrome plated service (angle) valves	N°	10.00		
	Gate Valve				
8.3	Supply and fix gate valve made of bronze,complete with all accessories				
a	Internal dia.20mm (25mm)	pcs	1.00		
b	Internal dia.16mm (20mm)	pcs	4.00		
	Waste Drainage System				
8.4	Supply lay and connect PVC pipes for foul drainage. The quality of material should satisfy the requirements of British Standard				
a	Internal dia. 50 mm	ml	14.00		
b	Internal dia. 100 mm	ml	16.00		
8.5	Sanitary Appliances				
	Cloth Wash Basin				
a	Cast in Situ Cloth Wash Basin , made from RC & Covered With Ceramic Tiles As per the Detail design	N°	4.00		
b	Cloth Drying string fixed on vertical Circular Steel Profiles Diam.60mm as per the design.	LS	1.00		
	Total Carried to Summary Eth.Birr				

Site Works

Item No	Description	Total Amount
1	Internal Roadways & Walk Ways	
2	Electrical Site Work	
3	Sanitary Site Work	
4	Fence Work	
	Sub Total Site Work	

Item No	Description	Unit	Qty	Rate	Amount
Site Work					
1.Internal Road & Walkways					
1.1	Levelling the ground to the designed level in ordinary soil over the compound & parking area with an average thickness of 250 mm. The ground shall then be levelled and graded according to elevation plan.	m ²	500		
1.2	Remove surplus excavated material & deposit it at a distance not exceeding 2km. from site.	m ³	200		
1.3	Compaction of the natural Earth & spread a Gravel or Red Ash on top of it for walk Ways	m ²	500		
Total Carried to Summary Eth.Birr					
2.Electrical Site Work					
2.1	Manhole				
a	Manhole in brick or masonry, internally of 500x500x700mm including reinforced concrete cover with lifting lug.	No	12		
b	Ditto, but of 500x500x500mm for tele/data line.	No	2		
2.2	Conduits & Pipes				
a	PVC pipe of 75mm diameter.	ml	150		
b	PVC pipe of 32mm diameter.	ml	30		
2.3	Feeder Cables				
a	4X16 sq.mm from EEPKO Meter to MDB & to Other Blocks	ml	200		
b	3X4 sq.mm from MDB to SDB for garden lighting & compound Lighting	ml	300		
c	4X16 sq.mm from MDB to Water Pump Board	ml	350		
2.4	External Lighting				
a	DISANO 1240 TORPEDO + ACC 456 with 1 * SAP -70W High Pressure Sodium Vapour Lamp	No	18		
b	Compound Light to be fixed on the Gate with accessories & lamp	No	4		
Total Carried to Summary Eth.Birr					

Item No	Description	Unit	Qty	Rate	Amount
	3.Sanitary Site work				
	Cold Water Line				
3.1	Supply and install HDPE pipes PN-10 Dia 32mm pipes according to the drawing shown from elevated and/or ground water tanks to the buildings ensuring the direct supply to internal fixtures with necessary fittings and accessories complete				
	32mm diameter	ml	200		
3.2	Supply and fix gate valves of approved standards complete with unions, elastic water proofing and hand wheels of normal quality and necessary accessories.				
	32mm diameter	No	5		
3.3	Supply and fix check valves of approved standards complete with unions, elastic water proofing and hand wheels of normal quality and necessary accessories.				
	32mm diameter	No	4		
3.4	Water Pump				
	Supply & Install Domestic water pump GRUNDFOSE or equivalent Q=1.5 l/sec, H=20m, Power 2.9KW, Eff >70%, NPSH >1.5m including basket strainer, inlet outlet valves, floating switches and all required accessory	No	3		
3.2	Water Tank				
	Supply and install on the ground water tanks made from FIBER GLASS Mounted on the Ground with approved standard of a capacity of 10m ³	No	3		
	Sewerage Line				
3.3	Construct rectangular double brick manholes on a sanitary sewers on a base of 100mm thick mass concrete, with proper channel for smooth flow and 80cm thick RC slab cover and backfilling as shown in the drawings including excavation				
	size 700 x 700mm	No	14		
3.40	Supply and lay PVC sewage pipes with a slope of 2% on a firm bed of sand 10cm thick below and 30cm above crown of pipe in open ground. the joints and installation shall make possible the best conditions shall made tight				

Item No	Description	Unit	Qty	Rate	Amount
	50mm diameter	ml	36		
	110mm diameter	ml	150		
3.5	Septic Tank				
	Construct Septic Tank As per the Design	LS	1		
3.6	Storm Water Channel				
	Excavate and construct drainage channel out of Concrete pipe with one coat of cement mortar internally, price includes of necessary works red ash of minimum thickness of 50mm and excavation of trench, cart away, supply and spreading	ml	300		
3.7	Construct manholes on storm water drainage out of precast concrete pipes on a base of 100mm thick mass concrete, with proper chanel for smooth flow and 8.0cm thich RC slab cover including excavation and backfilling for 500mm diameter manhol				
	size 700 x 700mm	No	6		
	Total Carried to Summary Eth.Birr				
	4.Fence Work				
	A. Sub Structure				
	1. Excavation and Earth Work				
1.3	Trench excavation in ordinary soil up to a depth of 150 cm	m ³	294.00		
1.5	Back fill around stone masonry with selected material	m ³	147.00		
1.6	Cart away Surplus Excavated Material 5km Away from the compund	m ³	294.00		
	2.Concrete Work				
2.1	C-5 lean concrete Under				
	a.Stone Masnory	m ²	147.00		
2.2	C-25 concrete In				
	a.Grade Beam	m ³	29.40		
2.3	Formwork				
	Grade Beam	m ²	117.60		
2.4	Reinforcement				
	a.Diameter 8 mm def. re Bars	kg	581.08		
	b.Diameter 12 mm def. re Bars	kg	1280.00		

Item No	Description	Unit	Qty	Rate	Amount
	3.Masonry Work				
3.1	50cm thick Stone Masonry below NGL	m ³	147.00		
3.2	50cm thick Stone Masonry above NGL	m ³	44.10		
	B. Super Structure				
	1.Concrete Work				
1.1	C-25 concrete				
	a.Elevation column	m ³	8.08		
1.2	Formwork				
	a.For elevation column	m ²	161.60		
1.3	Reinforcement				
	a.Diameter 8 mm def. Re Bars	kg	707.00		
	b.Diameter 12 mm def. Re Bars	kg	1010.00		
	2.Block work				
2.1	20 cm. thick class-C H.C.B wall.	m ²	588.00		
	6.Finishing Work				
6.1	Wall finishing				
	Apply Pointing on both Masonry & HCB fence Wall	m ²	1162.17		
	7.Metal Work				
7.1	Main Gate				
	a Supply & Fix Metal Gate Made from Tubular Steel Profiles as per the design	No	1.00		
	Total Carried to Summary Eth.Birr				