PROPOSED CONSTRUCTION TO COMPLETION OF 4 DOORS STAFF TOILET WITH TWO DOORS FOR PLWD AND 4 DOOR BOYS TOILET WITH ONE CHAMBER FOR PLWD AT TWENDANE PRIMARY SCHOOL IN GILGIL CONSTITUENCY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT No.1 **SUBSTRUCTURE (All Provisional)** **Excavation and Earthworks**				
A	Clear site of debries ,shrubs, small trees undergrowths and the like, grub up roots and cart away arising's from site	20	SM		
B	Excavate 150 mm deep top soil wheel, deposit and spread within compound distance not exceeding 100 metres as directed	20	SM		
C	Excavate trench for foundation strip footing not exceeding 1.50 metres deep starting from stripped level	14	CM		
D	Mass excavation to reduced levels not exceeding 1.50m deep	2	CM		
E	Excavate for pits depth exceeding 1.5m but not exceeding 3.0m deep	5	CM		
F	Excavate for pits depth exceeding 3.0m but not exceeding 4.5m deep	5	CM		
G	Excavate for pits depth exceeding 4.5m but not exceeding 6.0m deep	5	CM		
H	Excavate for pits depth exceeding 6.0m but not exceeding 7.5m deep	5	CM		
J	Excavate for pits depth exceeding 7.5m but not exceeding 9.0m deep	5	CM		
K	Excavate for pits depth exceeding 9.0m but not exceeding 10.5m deep	5	CM		
L	Extra over normal excavation for excavating in rock of any class	2	CM		
M	Return, fill in and rum selected excavated material	9	CM		
N	Remove and cart away from site surplus excavated material as directed	25	CM		
P	**Filling** Hardcore filling in making up levels ground level and 300mm below, depositing an compacting in layers of 150mm maximum thickness	4	CM		
	Total Carried to Collection	**1**			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Substructure contd'				
A	50mm thick stone dust or murram blinding to surfaces over hardcore	13	SM		
B	Keeping all excavations free from water including spring or running water	1	ITEM		
C	Uphold the sides of all excavations	1	ITEM		
D	Antitermite treatment TERMIDOR' or other equal and approved insecticides with a ten-years guarantee to surfaces of fill and tops of foundations.	13	SM		
	Concrete Works				
E	50mm thick mass concrete class Q(1:4:8) to bottoms of foundations and bases	14	SM		
	Vibrated reinforced Concrete class (1;4;8)				
F	Foundations in trenches irrespective of thickness	2	CM		
G	100mm thick bed	20	SM		
	REINFORCEMENT **Supply and fix bars Reinforcement including bending ,hooks,tying wire,cutting spacersand supporting all in position as decribed**				
H	10mm bars	44	KG		
J	8mm bars	33	KG		
	Fabric B.S 4483				
K	Reference A 142mesh 200X200mm , weight 2.22kg per square meter (measured net -no allowance made for laps) including bends typing wire and distance blocks	13	SM		
	Sawn formwork to insitu concrete as described				
L	To sides vertical or battering of strip foundation	10	SM		
M	Edges of ground floor slab, 75 to 150mm wide	19	LM		
N	Soffits of suspended slab	4	SM		
P	Extra over ditto for boxing hole size 200 x 200mm in floor slab	3	NO		
	Total Carried to Collection	**2**			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Substructure contd'				
	Walling				
A	200mm thick approved local natural stone, roughly squared to foundation walling, bedding and jointing in cement sand (1:3) mortar	18	SM		
	Damp proofing				
B	Polythene, 1000 gauge, 200mm laps (no allowance made to laps) horizontal, 1 no layer laid on murram building	13	SM		
	Insitu finishings				
C	12mm thick 2 no coatwork cement sand (1:3) render, wood floated to concrete or blockwork base to walls, external	6	SM		
D	Prepare and apply three coats of black bituminous pint to Rendered plinths, externally	6	SM		
	Total Carried to Collection				
	COLLECTION				
	From page 1/1/1				
	From page 1/1/2				
	From above				
	TOTAL CARRIED TO SUMMARY	**3**			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT No. 2 CONCRETE SUPERSTRUCTURE Vibrated reinforced concrete class 20/20 as described in:				
A	Ring Beam	1	CM		
	High tensile square twisted bars to BS 4461 as before described				
B	10mm diameter	159	KG		
C	Ditto but 8mm ditto	43	KG		
	Sawn formwork to insitu concrete as described				
D	To sides and soffits of beams	17	SM		
	TOTAL CARRIED TO SUMMARY	4			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT No.3 WALLING				
	Approved machine cut natural stone bedded and jointed in cement and sand (1:4) mortar as described in:				
A	150 mm Thick walling including 25 x 20 gauge hoop iron reinforcement at every two alternate courses	58	SM		
B	Ditto gable ended facade	2	SM		
C	Extra eaves filling in 150mm thick walling a.b.d	7	LM		
D	Raking cutting to 200mm thick wall	7	LM		
	Hessian based 3 ply bituminous felt horizontal damp proof course to B.S 743, Type "A" weighing not less than 3.8kq per mm2 bedded and levelled in cement and sand (1:3) mortar as described (measured net allow for laps)				
E	150 mm Wide	25	LM		
	VENT PIPE				
F	150mm diameter P.V.C.pipe fixed to walling with holder bats at 1 meters centres	11	LM		
	TOTAL CARRIED TO SUMMARY	5			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT No.4 ROOF CONSTRUCTION				
	Roof covering 28 Gauge Resincot galvanized IT4 iron roofing sheets nailed on purlins labour and material				
A	Roof covering n.e 23 degrees from the horizontal including all necessary fixtures	38	SM		
	Grade II pressure impregnated sawn cypress in: Framed timberwork The following truss of assorted heights and spans including scarfed or dovetailed jointing, hoisted and fixed various hights above ground floor slab				
B	100 x 50 mm main rafter	21	LM		
C	100 x 50 mm Wall plate	19	LM		
D	100 X 50 mm Ridge board	7	LM		
E	100 x 50mm sawn cypress tie beam	20	LM		
F	100 x 50mm king posts	4	LM		
G	100 x 50mm sawn cypress struts & Ties	23	LM		
H	75 x 50mm sawn cypress purlins	53	LM		
	In grade II wrot cypress				
J	225 x 38 mm Fascia board	22	LM		
K	225mm x 38 mm Barge board	13	LM		
	Painting and decorating Knot, prime and stop, prepare and apply one undercoat and three finishing coats first grade external quality gloss oil paint on wood work surfaces as described:				
L	Surfaces over 200 mm but not exceeding 300mm girth	22	LM		
	TOTAL CARRIED TO SUMMARY	6			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Rainwater goods				
A	150mm diameter UPVC gutters including fixing with brackets at 1200mm centres	8	LM		
B	140mm diameter UPVC rain water downpipe	6	LM		
C	Extra over ditto for swanneck	2	NO		
D	Extra over ditto for shoe	2	NO		
	Knot,prime, stop,prepare surfaces and apply one undercoat and two finishing coats of gloss oil paint on				
E	General timber surfaces 200 to 300mm girth externally	40	LM		
	TOTAL CARRIED TO COLLECTION				
	COLLECTION From Page 6 From Above				
	TOTAL CARRIED TO SUMMARY	**7**			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5 **DOORS**				
	Supply and fix the following to UNION catalogue or other equal and approved To softwood, hardwood or the like fixing with screws, Three- lever mortice lock complete with set lever brass handle furniture, 100mm heavy duty steel butt hinges ,100mm Long aluminium barrel bolts				
A	**Approved quality Flush doors** Single leaf solid door overall size, 900 x 2100mm high and a double acting 600x600x2100mm high, complete with sawn cypress 25mm quadrant beading, 40 x 12mm architrave.	4	NO		
	The following from 'Union' or other equal and approved manufacturer(s) as per latest East Africa catalogue including all necessary matching fixing screws.				
B	100mm long, 10mm diametre mild steel pad-lock bolts with accesories	3	NO		
C	100mm x50mm sawn cypress timber rebated door frame	18	LM		
D	Supply and fix 100mm pressed butt hinges	4.5	PRS		
	TOTAL CARRIED TO SUMMARY	**8**			**-**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6 **WINDOWS** **Supply, assemble and fix the following purpose made mild steel casement windows, standard metal section from approval manufacturer complete with frames transoms, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high * 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer all welding ground to smooth finish**				
A	Window overall size 600X600mm high	4	NO		
B	4mm thick obsecured sheet glass panes over o.1m	2	SM		
C	Prepare and apply three coats of gloss oil paint on general window surfaces	4	SM		
	TOTAL CARRIED TO SUMMARY	9			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 7 FINISHES				
	FLOOR FINISH				
A	32mm thick cement sand(1;3) screed to receive non-slip ceramic tiles (m/s)	18	SM		
B	300 x 300 x 8mm ceramic floor tiles	18	SM		
C	100 x 8 mm thick skirting tiles	24	LM		
	WALL Cement and sand (1:4) as ddescribed				
D	Horizontal raking externally and flush keying to joints	58	SM		
	Cement, lime and sand (1:1:6) as described				
E	12 mm Thick cement and sand (1:4) render to wall surfaces internally to receive wall tiles (m/s)	58	SM		
F	Ditto sides surfaces of beam and gable end	9	SM		
	Wall tiles				
G	400 x 200 x 8mm ceramic wall tiles	58	SM		
	Painting and Decorating				
	Prepare and apply one undercoat and three finishing coats first quality plastic emulsion paint as before described on:				
H	Plastered wall or concrete surfaces	58	SM		
	TOTAL CARRIED TO SUMMARY	10			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 8 SANITARY FITTINGS People With Disability- Accessible WC and Wash Hand Basin				
A	Wheel chair accessible facility Comprising of the following:- i) Close coupled W.C with Dual Flush 6/3.5 litre cistern, with bottom inlet and overflow. The bowl and cistern shall be manufactured from vitreous china complying with B.S 3402 .The unit shall be complete with valveless cistern fittings including syphon, 1 /2" side inlet ballvalve, 3 /4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever.There shall also be a heavy duty seat(25mmhigh) and cover with chrome plated metal hinges. To be as 'Twyfords DOC.M wheelchair accessible W.C. facility or approved equivalent.	3	NO		
B	ii) Semi pedestal, wall mounted W.H.B of size 600x500x545mm high with flexible connectors to taps.The basin shall be manufactured from vitreous china complying with B.S 3402. chrome plated waste with height adjustable trap, pedestal and wall fixing bolts. To be as 'Twyfords DOC.M wheelchair accessible W.C. facility' or approved equivalent. It shall have one tap hole & supplied with 1/2" chrome plated, ELBOW OPERATED, Basin Tap. To be as "TAPIS Tap or approved equivalent.	3	NO		
	TOTAL CARRIED TO SUMMARY	11			

ITEM	DESCRIPTION	PAGE NO	AMOUNT
	GRAND SUMMARY		
A	SUBSTRUCTURE	FROM PAGE 3	
B	SUPERSTRUCTURE	FROM PAGE 4	
C	WALLING	FROM PAGE 5	
D	ROOF CONSTRUCTION	FROM PAGE 7	
E	DOORS	FROM PAGE 8	
F	WINDOWS	FROM PAGE 9	
G	FINISHES	FROM PAGE 10	
H	SANITARY FITTINGS	FROM PAGE 11	
	TOTAL FOR 4 DOOR		
	X2		
	TOTAL FOR 8 DOOR		
	TOTAL CARRIED TO SUMMARY	12	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PRIME COST AND PROVISIONAL COST SUMS				
	The following Provisional Sums are to be measured on completion and priced in accordance with the rates contained in these bills of Quantities or pro-rata thereto or deducted in the whole not required				
A	Provide a provisional sum of Kenya Shillings Thirty two thousand **(Kshs. 32,000.00)** only for Engineer's Transport and site Supervision		SUM		32,000.00
B	Provide a provisional sum of Kenya Shillings Fourty eight Thousand **(Kshs. 48,00.00)** only for PMC Inspection Team		SUM		48,000.00
	TOTAL FOR PC CARRIED TO GRAND SUMMARY	12			80,000.00

ITEM	DESCRIPTION	PAGE NO.	AMOUNT
	GRAND SUMMARY		
A	TOTAL FOR BULDER'S WORK FROM	PAGE 8	
B	TOTAL FOR PRIME COST AND PROVISIONAL COST SUMS	P/S/1	80,000.00
	SUB-TOTAL 1		
	ADD 0.03% PPRA LEVY		
	TOTAL FOR BOYS BLOCK CARRIED TO GRAND SUMMARY	**PAGE 13**	

Contract period …… (weeks)
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Amount in words ……
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Tenderers Name ……
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Address ……
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Signature ……Date……
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