

**MINISTRY OF HEALTH ENGINEERING DIVISION**

**Adi- Nfas Health Center New block BOQ**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
<b>A. SUBSTRUCTURE</b>						
<b>1. Excavation and Earth Work</b>						
1.01	Clear off site to remove top vegetable or grassy soil to an average depth of 20cm.	m <sup>2</sup>	1,680.00	33.43	56,168.63	
1.02	footing excavation in ordinary soil not exceeding 150 cm from stripped ground level.	m <sup>3</sup>	112.65	1,099.10	123,813.34	
1.03	Bulk excavation in ordinary soil to a depth not more than 100cm.	m <sup>3</sup>	281.30	392.32	110,358.70	
1.03	Back fill around foundation with good and selected excavated soil from site and rammed layers not exceeding 20cm thick.	m <sup>3</sup>	90.00	319.66	28,769.30	
1.04	selected and compacted soil under hard core to an average depth of 40cm. compacted to a layer of 20cm. thick.	m <sup>3</sup>	350.00	319.66	111,880.60	
1.05	Cart away surplus excavated material to a distance not less than 1km. from site.	m <sup>3</sup>	35.00	235.18	8,231.22	
1.06	25cm. Thick basaltic or equivalent stone hard core well rolled, consolidated and blinded with crushed stone to receive ground slab.	m <sup>2</sup>	620.00	285.86	177,234.99	
<b>CARRIED TO SUMMARY</b>					<b>616,456.77</b>	
<b>2. Concrete Work</b>						
2.01	Reinforced concrete in C-25, 360kg./M3 filled in to form work and vibrated around rod reinforcement steel bars.					
	A) in footing	m <sup>3</sup>	18.77	3,722.86	69,878.10	
	B) In Foundation column	m <sup>3</sup>	6.20	3,722.86	23,081.74	
	C) in grade beam	m <sup>3</sup>	70.00	3,722.86	260,600.28	
	D) In 10cm thick ground floor slab	m <sup>2</sup>	620.00	372.29	230,817.39	
	E) 10cm thick C-15 mass concrete for pavement	m <sup>2</sup>	58.00	372.29	21,592.59	
2.02	Provide cut and fix in position sawn zigba or steel form work to					
	A) in footing	m <sup>2</sup>	82.24	319.12	26,244.80	
	B) In Foundation column	m <sup>2</sup>	116.40	319.12	37,146.10	
	C) in grade beam	m <sup>2</sup>	280.00	319.12	89,354.88	

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EM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
2.03	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.					
	a) " 8mm.	Kg	406.10	46.32	18,811.64	
	b) " 10mm.	Kg	903.88	46.32	41,870.13	
	c) " 12mm.	Kg	3,568.34	49.33	176,043.15	
	CARRIED TO SUMMARY				995,440.81	
	<b>3. Masonry Work</b>					
3.01	50cm. thick basaltic or equivalent stone foundation wall bedded in cement mortar mix 1:4 below NGL.	m <sup>3</sup>	252.00	1,872.93	471,978.63	
3.02	Ditto but roughly dressed above NGL to an average height of 50cm.	m <sup>3</sup>	210.00	2,572.76	540,279.46	
	CARRIED TO SUMMARY				1,012,258.09	
	<b>B- Super Structure</b>					
	<b>1. Concrete Work</b>					
1.01	Reinforced concrete in C-25 360kg of cement/m <sup>3</sup> filled into form work and vibrated around rod reinforcement steel bars					
	a) In elevation column	m <sup>3</sup>	16.71	3,802.43	63,546.25	
	b) In lintels	m <sup>3</sup>	4.00	3,802.43	15,209.73	
	c) verandah tie beam	m <sup>3</sup>	17.12	3,802.43	65,097.64	
	d) top roof tie beam	m <sup>3</sup>	20.75	3,802.43	78,900.47	
1.02	Form work					
	a) In elevation column	m <sup>2</sup>	322.32	352.45	113,602.46	
	b) In beams and lintels	m <sup>2</sup>	60.00	352.45	21,147.14	
	c) verandah tie beam	m <sup>2</sup>	171.20	352.45	60,339.85	
	d) top roof tie beam	m <sup>2</sup>	166.00	352.45	58,507.10	
1.03	Reinforcement steel bars according to structural drawings price includes cutting, bending, placing in position and tying wires					
	a) " 8mm	Kg.	4,021.95	47.95	192,844.59	
	b) " 10mm	Kg.	4,553.46	50.47	229,792.46	
	c) " 12mm	Kg.	4,675.32	50.47	235,942.18	
	CARRIED TO SUMMARY				1,134,929.88	
	<b>2. Block work</b>					
2.01	20cm thick HCB wall bedded on cement sand mortar mix 1:4 both faces left for plastering	m <sup>2</sup>	906.00	636.17	576,371.24	

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M	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
	CARRIED TO SUMMARY				576,371.24	
	<b>3. Water Proof Work</b>					
3.01	Supply & fix G-28 galvanized sheet approved type roof covering according to instruction of the manufacturers.	m <sup>2</sup>	110.40	793.96	87,652.90	
3.02	wooden purlin 5x7 cm c/c	ml	165.60	246.49	40,818.27	
3.03	G-28 galvanized sheet gutters including all accessories. (dev. Length 40cm)	Lm	13.80	406.68	5,612.13	
3.04	PVC dia 110mm down pipe.	Lm	16.00	416.74	6,667.77	
	CARRIED TO SUMMARY				140,751.08	
	<b>4. Steel Structure</b>					
4.03	grill fence for windows (1.4x1.2)m	pcs	6.00	3,924.14	23,544.86	
	CARRIED TO SUMMARY				23,544.86	
	<b>5. Carpentry</b>					
5.01	ply wood ceiling, including 5x5 cm wooden purlin spaced at 60x60 cm, and wooden ristelli 3x1 cm to cover the joints.	m <sup>2</sup>	96.60	610.17	58,942.41	
5.02	Hard board 25 cm wide and 3cm thick for the guthers.	ml	27.60	286.45	7,906.02	
	CARRIED TO SUMMARY				66,848.43	
	<b>6. metal Work</b>					
6.01	Supply and fix doors and windows made of metal sheet profile and single glazed including all the necessary iron monger and approved lock all according to detail drawing.					
	a) D1 - 100x225 cm	Pcs	6.00	6,894.40	41,366.40	
	b) W1 - 100x120 cm	Pcs	12.00	4,136.64	49,639.68	
	CARRIED TO SUMMARY				91,006.09	
	<b>7. Finishing Work</b>					
	Finishing work shall be include all surface pre cleaning preparation application of the finishing, cleaning and polishing at the end of finishing work. Apply three coats of plaster with cement mortar up to fine finish.					
7.01	To internal surface of the wall	m <sup>2</sup>	222.08	176.84	39,272.94	
7.02	To external surface of the wall	m <sup>2</sup>	242.90	176.84	42,954.78	
7.03	Two coats of plaster in cement sand, mix (1:3) to wall surface to receive ceramic tiles	m <sup>2</sup>	5.00	134.11	670.57	

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ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
7.04	Wall tiles ceramic tiles 15x15 cm polished with white cement grout.	m <sup>2</sup>	5.00	982.49	4,912.43	
7.05	terrazzo floor tiles flooring bedded on cement sand mortar mix (1:3) and joints grouted in cement sand mortar.	m <sup>2</sup>	96.60	893.29	86,291.92	
7.06	10cm high approved type ceramic skirting stuck to wall with cement and sand mortar mix (1:3) backing	Lm	52.00	190.44	9,902.67	
	CARRIED TO SUMMARY				184,005.32	
	<b>8. Painting</b>					
8.01	Apply three coats of approved plastic wall paint to:-external wall surface and internal above 1.6 m high	m <sup>2</sup>	347.00	85.39	29,631.79	
8.02	synthetic paint to internal wall surfaces upto 1.6 m high from floor level.	m <sup>2</sup>	140.00	138.52	19,392.17	
	CARRIED TO SUMMARY				49,023.96	
	TOTAL CARRIED TO SUMMARY				4,890,636.53	

**MINISTRY OF HEALTH ENGINEERING DIVISION**

**STAFF RESIDENCE BOQ**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
<b>1.Demolishing Works</b>						
1.01	dismantle the existing corrugated iron sheet and keep properly for reuse, by checking the condition of the sheet.	m <sup>2</sup>	400.00	90.00	36,000.00	
1.02	dismantle the existing eucalyptus rafters and wooden purlins properly and hand over to client.	pcs	120.00	50.00	6,000.00	
1.03	peel off the defected cement plaster and clean properly for new plastering.	m <sup>2</sup>	310.00	120.00	37,200.00	
1.04	dismantle and remove the existing deteriorated floor tiles and cement screed.	m <sup>2</sup>	285.00	150.00	42,750.00	
1.05	dismantle and hand over the existing deteriorated wooden doors to client.	pcs	10.00	130.00	1,300.00	
1.06	dismantle and hand over the existing deteriorated metallic doors and windows to client.	pcs	29.00	190.00	5,510.00	
1.07	dismantle the existing deteriorated sanitary appliances. Such as shower tray, wc, pipes etc	pcs	8.00	75.00	600.00	
	CARRIED TO SUMMARY				129,360.00	
<b>2.Maintenance Works</b>						
2.01	demolish and renew the unstable and demolished stone masonry wall bedded on cement sand mortar (1:3 ratio)	m <sup>3</sup>	10.00	1,404.70	14,046.98	
2.02	check and maintain the defected, cracked and unstable stone masonry wall by inserting reinforcement and cement mortar	m <sup>2</sup>	15.00	865.70	12,985.50	
2.03	check and maintain the defected, cracked and unstable brick masonry wall by inserting reinforcement and cement mortar	m <sup>2</sup>	54.00	380.00	20,520.00	
	CARRIED TO SUMMARY				47,552.48	
<b>3.Concrete Works</b>						
3.01	c-25 concrete 360kg/m3 (1:2:3 ratio)	m3	12.00	5,083.25	60,998.94	

**STAFF RESIDENCE BOQ**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
3.02	reinforcement hysd					
	a) dia 12	kg	640.00	50.47	32,297.89	
	b) dia 10	kg	60.00	50.47	3,027.93	
	c) dia 06	kg	200.00	47.95	9,589.61	
3.03	form work for beam and lintels	m <sup>2</sup>	100.00	352.45	35,245.24	
	CARRIED TO SUMMARY				141,159.61	
	<b>4. Roof Works</b>					
4.01	RHS metal truss 60x60x3 mm for the top and bottom, 40x40x3 mm for vertical and diagonal parts of the truss.					
a	truss1 11.5 m long 1.2 m slope in two direction	no.s	7.00	3,400.00	23,800.00	
b	truss2 9.5 m long 1.0 m slope in two direction	no.s	5.00	3,300.00	16,500.00	
c	truss3 8.5 m long 0.8 m slope in one direction	no.s	7.00	2,600.00	18,200.00	
4.02	G-28 galvanized sheet maintenance check and renew the defected CIS according to instruction of the engineer price includes nails, and ridge cover.	m <sup>2</sup>	400.00	793.96	317,582.97	
4.03	wooden purlin 7x5 cm to receive the corrugated iron sheet.	Lm	450.00	246.49	110,919.23	
4.04	G-28 galvanized sheet gutters maintenance including all accessories. (dev. Length 40cm)	Lm	100.00	406.68	40,667.64	
4.05	Pvc pipes , dia 110mm down pipe.	Lm	80.00	318.39	25,471.54	
	CARRIED TO SUMMARY				553,141.36	
	<b>5. Carpentry</b>					
5.01	ply wood ceiling, including 5x5 cm wooden purlin spaced at 60x60 cm, and wooden ristelli 3x1 cm to cover the joints.	m <sup>2</sup>	300.00	980.00	294,000.00	
	CARRIED TO SUMMARY				294,000.00	
	<b>6. metal Work</b>					

**STAFF RESIDENCE BOQ**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
6.01	Supply and fix doors and windows made of metal sheet profile and single glazed including all the necessary iron monger and approved lock all according to detail drawing.					
	a) D1 - 110x280 cm	Pcs	1.00	5,500.00	5,500.00	
	b) D2 - 100x225 cm	pcs	2.00	3,400.00	6,800.00	
	c) D3 - 100x200 cm	pcs	2.00	3,200.00	6,400.00	
	d) W1 - 100x195 cm	Pcs	4.00	3,300.00	13,200.00	
	e) W2 - arch 110x90 cm	Pcs	5.00	1,250.00	6,250.00	
	f) W3 - 100x120 cm	Pcs	11.00	1,400.00	15,400.00	
	CARRIED TO SUMMARY				53,550.00	
	<b>7. Wood Work</b>					
7.01	Supply and fix doors made of wood with frame width not less than 12 cm sheet profile including all the necessary iron monger and approved lock all according to detail drawing.					
	a) D1 - 100x225 cm	Pcs	12.00	5,283.83	63,406.02	
	CARRIED TO SUMMARY				63,406.02	
	<b>8. Plastering</b>					
8.01	Apply three coat cement mortar plaster (1:3 ratio) both internal and external wall surfaces upto smooth finish.	m <sup>2</sup>	320.00	190.18	60,859.20	
8.02	Apply cement plaster pointing for the existing externally pointed surfaces.	m <sup>2</sup>	180.00	134.11	24,140.68	
	CARRIED TO SUMMARY				84,999.88	
	<b>9. Painting</b>					
	Apply three coats of approved plastic wall paint to:-					
9.01	a) To external wall surface and internal wall above 180 cm high	m <sup>2</sup>	760.00	85.39	64,899.61	
9.02	synthetic paint to internal wall surfaces and metallic doors and windows	m <sup>2</sup>	480.00	138.52	66,487.43	
	CARRIED TO SUMMARY				131,387.03	
	<b>10. Sanitary</b>					

**STAFF RESIDENCE BOQ**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
10.01	man hole 60x60x60 cm brick walls internal faces smoothly finished, with man hole cover slab with reinforced concrete.	pcs	3.00	1,668.96	5,006.88	
10.02	supply and fix cold water distribution pipe lines with Pvc pipes. Price includes all necessary accessories.					
	a) pipe dia 50 mm	ml	50.00	265.25	13,262.54	
	b) pipe dia 25 mm	ml	200.00	166.50	33,299.11	
	c) pipe dia 20 mm	ml	50.00	166.50	8,324.78	
	d)water tap 20 mm	pcs	2.00	701.80	1,403.59	
	e)water tap 25 mm	pcs	2.00	701.80	1,403.59	
	f)gate valve 50 mm	pcs	1.00	864.97	864.97	
	g)gate valve 25 mm	pcs	2.00	701.80	1,403.59	
	h)gate valve 20 mm	pcs	2.00	701.80	1,403.59	
	I)supply and fix complete shower tray	pcs	2.00	4,728.26	9,456.51	
	J) supply and fix complete W.C with accessories	pcs	2.00	7,304.69	14,609.38	
	K) supply and fix complete hand wash basin	pcs	2.00	8,689.61	17,379.22	
	L) soap holder	pcs	2.00	493.62	987.25	
	M) towel hunger	pcs	2.00	2,647.54	5,295.08	
	N) crystall glass mirror 40x40 cm	pcs	2.00	607.06	1,214.12	
	O) floor drain 50 mm dia	pcs	4.00	480.50	1,922.00	
	P) sink 1500x500 mm double bowl	pcs	1.00	6,915.53	6,915.53	
	CARRIED TO SUMMARY				119,144.85	
	<b>TOTAL CARRIED TO SUMMARY</b>				<b>1,617,701.24</b>	