

**MINISTRY OF HEALTH ENGINEERING DIVISION**

**Adi-Nfas Cealth Center Public Toilet BOQ**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<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>	63.75	33.43	2,131.40
1.02	Trench excavation in ordinary soil to a depth not more than 100cm.	m <sup>3</sup>	12.18	392.32	4,778.42
1.04	Back fill around strip foundation and under hard core with good and selected excavated soil from site and rammed layers not exceeding 20cm thick.	m <sup>3</sup>	25.00	319.66	7,991.47
1.06	Cart away surplus excavated material to a distance not less than 5km. from site.	m <sup>3</sup>	8.33	235.18	1,959.03
1.07	25cm. Thick basaltic or equivalent stone hard core well rolled, consolidated and blinded with crushed stone to receive ground slab.	m <sup>2</sup>	45.00	285.86	12,863.83
<b>TOTAL CARRIED TO SUMMARY</b>					<b>29,724.15</b>
<b>2. Concrete Work</b>					
2.02	Reinforced concrete in C-25, 360kg./m <sup>3</sup> filled in to form work and vibrated around rod reinforcement steel bars.	m <sup>3</sup>	5.30	3,802.43	20,152.89
2.03	Provide cut and fix in position sawn zigba or steel form work to grade beam	m <sup>2</sup>	12.27	352.45	4,324.59
2.04	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.	kg			0.00
	dia 6 mm	kg	33.09	46.32	1,533.00
	dia12 mm	kg	122.58	49.33	6,047.65
<b>CARRIED TO SUMMARY ERN</b>					<b>32,058.14</b>
<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>	12.18	2,572.76	31,336.21
	50cm. thick basaltic or equivalent stone masonry wall partially dressed bedded in cement mortar mix 1:4 above NGL.	m <sup>3</sup>	7.51	2,994.29	22,487.14
<b>CARRIED TO SUMMARY ERN</b>					<b>53,823.35</b>
<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	m <sup>3</sup>	4.29	5,083.25	21,807.12
1.02	Form work	m <sup>2</sup>	31.50	352.45	11,102.25
1.03	Reinforcement steel bars according to structural drawings price includes cutting, bending, placing in position and tying wires	Kg.			0.00
	dia 6 mm	Kg.	40.00	47.95	1,917.92

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	dia 12 mm	Kg.	170.00	50.47	8,579.13
	<i>CARRIED TO SUMMARY ERN</i>				<b>43,406.42</b>
	2. Block work				
2.01	20cm thick H.C.B wall bedded on cement sand mortar mix 1:4 both faces left for plastering	m <sup>2</sup>	112.30	636.17	71,442.04
	<i>CARRIED TO SUMMARY ERN</i>				<b>71,442.04</b>
	3. Roof Work				
3.01	Supply & fix CIS G-26 t-0.45mm approved type roof covering	m <sup>2</sup>	47.66	793.96	37,840.01
3.02	G-28 galvanized sheet gutters including all accessories. (dev. Length 40cm)	Lm	16.00	416.74	6,667.77
3.03	PVC dia 110mm down pipe.	Lm	18.00	416.74	7,501.24
3.04	Plate 250x250x5mm	No.	10.00	230.00	2,300.00
3.05	Angle iron 40x40x3 mm	No.			0.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>54,309.03</b>
	4. Steel Structure				
	RHS truss applied with anti rust and three coats of metal paint of				
4.01	a) Truss T1 size 40 x 40 x 3.6mm upper and lower chord.	Lm	62.60	450.00	28,170.00
	b) Vertical and diagonal members of size 30 x 30 x 3mm.	Lm	40.00	325.00	13,000.00
4.02	Angle iron of size 25 x 25 x 5mm	Lm	5.00	230.00	1,150.00
4.03	fence grill for windows (90x90cm)	pcs	15.00	1,500.00	22,500.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>64,820.00</b>
	5. Carpentry				
5.01	wooden purlin 7*5 cm to receive the CIS sheet	ml	80.00	145.00	11,600.00
5.02	Supply and fix ply wood ceiling indoor nailed to 50x50mm. wooden battens, placed at c/c 600mm. both ways with 10mm. open joints. Price includes zigba wooden battens, tid wood corner list and wooden support.	m <sup>2</sup>	45.00	520.00	23,400.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>35,000.00</b>
	6. Metal Work				
6.01	Metal lattice doors in 40x40 mm L.T.Z frames and metal sheet cladding of 20 gauge including door frames - and all the necessary accessories one coat of anti rust and two coats of synthetic paint.				
	a) D1 .100x210 cm	pcs	4.00	3,400.00	13,600.00
	a) D2 . 70x210 cm	pcs	8.00	2,600.00	20,800.00
	c) w1- 60x60	pcs	14.00	1,200.00	16,800.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>51,200.00</b>
	7. Finishing Work				
7.01	plastering three coat up to fine finish with cement mortar 1:3 to wall left for plastering	m <sup>2</sup>	150.00	176.84	26,526.21

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7.02	plastering two coat 1:3 to receive ceramic wall tiles	m <sup>2</sup>	120.00	134.11	16,093.79
7.03	300x300mm ceramic floor tiles flooring bedded on 3cm thick cement sand screed mortar mix (1:3) and joints grouted in cement sand mortar.	m <sup>2</sup>	50.00	982.49	49,124.34
7.04	300x200mm ceramic wall tiles including 2cm thick cement sand mortar mix (1:3) and joints grouted in cement sand mortar.	m <sup>2</sup>	120.00	982.49	117,898.42
7.05	skirting with ceramic tile 10cm height	ml	60.00	170.00	10,200.00
	<b>CARRIED TO SUMMARY ERN</b>				<b>219,842.76</b>
	<b>8. Painting</b>				
8.01	a) synthetic paint for internal wall above 1.80m	m <sup>2</sup>	30.00	138.52	4,155.46
	b) plastic paint to external wall	m <sup>2</sup>	90.00	85.39	7,685.48
	c) synthetic paint to ceiling	m <sup>2</sup>	45.00	138.52	6,233.20
	<b>CARRIED TO SUMMARY ERN</b>				<b>18,074.14</b>
	<b>9. Sanitary fixtures</b>				
9.01	manhole 60x60x60	pcs	10	2,100.00	21,000.00
9.02	pvc 110 mm dia	ml	70	250.00	17,500.00
9.03	pvc 50 mm dia	ml	80	110.00	8,800.00
9.04	w.c complete	pcs	5	5800.00	29,000.00
9.05	turkish type	pcs	4	4500.00	18,000.00
9.06	handwash basin	pcs	6	4500.00	27,000.00
9.07	Urinal with all accessories	pcs	2	3800.00	7,600.00
9.08	toilet paper holder	pcs	9	550.00	4,950.00
9.09	soap holder	pcs	4	550.00	2,200.00
9.10	Towel hanger	pcs	4	400.00	1,600.00
9.11	shower tray 70x70 cm	pcs	4	2400.00	9,600.00
9.12	floor drain	pcs	10	450.00	4,500.00
9.13	shower head	pcs	4	400.00	1,600.00
9.14	bidet with complete accessories	pcs	2	3500.00	7,000.00
9.15	handrail 50mm dia for the disabled in w.c	pcs	2	500.00	1,000.00
	<b>CARRIED TO SUMMARY ERN</b>				<b>161,350.00</b>
	<b>TOTAL CARRIED TO SUMMARY ERN</b>				<b>835,050.02</b>

**MINISTRY OF HEALTH ENGINEERING DIVISION**

**SEPTIC TANK BOQ**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
<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>	9.60	25.00	240.00
1.02	septic tank excavation to a depth of 1.5 m in ordinary soil (6x4 m area)	m <sup>3</sup>	36.00	392.32	14,123.40
1.03	septic tank excavation to a depth of 1.5 m in hard rock soil (6x 4 m area)	m <sup>3</sup>	36.00	465.79	16,768.39
1.04	Back fill around foundation and under hard core with good and selected excavated soil from site and rammed layers not exceeding 20cm thick.	m <sup>3</sup>	9.60	319.66	3,068.72
<b>TOTAL CARRIED TO SUMMARY</b>					<b>34,200.52</b>
<b>2. Concrete Work</b>					
2.01	Reinforced concrete in C-25, 360kg./m <sup>3</sup> filled in to form work and vibrated around rod reinforcement steel bars. Grade beam	m <sup>3</sup>	2.00	3,722.86	7,445.72
2.02	in roof cover slab 15 cm thick	m <sup>2</sup>	24.00	558.43	13,402.30
2.03	Provide cut and fix in position sawn zigba or steel form work to grade beam	m <sup>2</sup>	6.00	319.12	1,914.75
2.04	form work to roof slab	m <sup>2</sup>	24.00	382.95	9,190.79
2.05	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.				
	dia 6 mm	kg	30.53	46.32	1,414.00
	dia 10 mm	kg	296.16	50.77	15,036.04
	dia12 mm	kg	78.14	49.33	3,855.21
<b>CARRIED TO SUMMARY ERN</b>					<b>52,258.81</b>
<b>3. Masonry Work</b>					
3.01	50cm. thick basaltic or equivalent stone wall for septic tank joints left for water infiltration below NGL.	m <sup>3</sup>	15.00	2,572.76	38,591.39
3.02	50cm. thick basaltic or equivalent stone masonry wall partially dressed bedded in cement mortar mix 1:4 ratio for 1 m below ground level	m <sup>3</sup>	6.00	2,994.29	17,965.76
<b>CARRIED TO SUMMARY ERN</b>					<b>56,557.15</b>
<b>4. Sanitary Work</b>					
4.01	supply and lay 150 mm dia cement pipes for sewer discharge Price includes cost of excavation and backfill.	ml	80.00	420.00	33,600.00
4.02	man hole 100x100cm including cover	pcs	10.00	3,200.00	32,000.00
<b>CARRIED TO SUMMARY ERN</b>					<b>65,600.00</b>
<b>TOTAL CARRIED TO SUMMARY ERN</b>					<b>208,616.48</b>

**MINISTRY OF HEALTH ENGINEERING DIVISION**

**Adi-Nfas Cealth Center Guard House BOQ**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<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>	40.00	33.43	1,337.35
1.02	Trench excavation in ordinary soil to a depth not more than 100cm.	m <sup>3</sup>	12.18	392.32	4,778.42
1.04	Back fill around strip foundation and under hard core with good and selected excavated soil from site and rammed layers not exceeding 20cm thick.	m <sup>3</sup>	15.00	319.66	4,794.88
1.06	Cart away surplus excavated material to a distance not less than 5km. from site.	m <sup>3</sup>	8.33	235.18	1,959.03
1.07	25cm. Thick basaltic or equivalent stone hard core well rolled, consolidated and blinded with crushed stone to receive ground slab.	m <sup>2</sup>	32.00	285.86	9,147.61
<b>TOTAL CARRIED TO SUMMARY</b>					<b>22,017.29</b>
<b>2. Concrete Work</b>					
2.02	Reinforced concrete in C-25, 360kg./m <sup>3</sup> filled in to form work and vibrated around rod reinforcement steel bars.	m <sup>3</sup>	4.00	3,802.43	15,209.73
2.03	Provide cut and fix in position sawn zigba or steel form work to grade beam	m <sup>2</sup>	9.52	352.45	3,355.35
2.04	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.	kg			0.00
	dia 6 mm	kg	30.00	46.32	1,389.68
	dia12 mm	kg	98.00	49.33	4,834.81
<b>CARRIED TO SUMMARY ERN</b>					<b>24,789.56</b>
<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>	10.50	2,572.76	27,013.97
	50cm. thick basaltic or equivalent stone masonry wall partially dressed bedded in cement mortar mix 1:4 above NGL.	m <sup>3</sup>	5.20	2,994.29	15,570.32
<b>CARRIED TO SUMMARY ERN</b>					<b>42,584.30</b>
<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	m <sup>3</sup>	4.29	5,083.25	21,807.12
1.02	Form work	m <sup>2</sup>	28.00	352.45	9,868.67
1.03	Reinforcement steel bars according to structural drawings price includes cutting, bending, placing in position and tying wires	Kg.			0.00

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	dia 6 mm				
	dia 12 mm	Kg.	34.00	47.95	1,630.23
	<i>CARRIED TO SUMMARY ERN</i>	Kg.	140.00	50.47	7,065.16
	<b>2. Block work</b>				<b>40,371.19</b>
2.01	20cm thick H.C.B wall bedded on cement sand mortar mix 1:4 both faces left for plastering	m <sup>2</sup>	75.00	636.17	47,712.85
	<i>CARRIED TO SUMMARY ERN</i>				<b>47,712.85</b>
	<b>3. Roof Work</b>				
3.01	Supply & fix CIS G-26 t-0.45mm approved type roof covering	m <sup>2</sup>	36.00	793.96	28,582.47
3.02	G-28 galvanized sheet gutters including all accessories. (dev. Length 40cm)	Lm	8.00	416.74	3,333.89
3.03	PVC dia 110mm down pipe.	Lm	12.00	416.74	5,000.83
	<i>CARRIED TO SUMMARY ERN</i>				<b>36,917.18</b>
	<b>4. Steel Structure</b>				
	RHS truss applied with anti rust and three coats of metal paint of				
4.01	a) Truss T1 size 40 x 40 x 3.6mm upper and lower chord.	Lm	30.00	450.00	13,500.00
	b) Vertical and diagonal members of size 30 x 30 x 3mm.	Lm	24.00	325.00	7,800.00
4.02	Angle iron of size 25 x 25 x 5mm	Lm	5.00	230.00	1,150.00
4.03	fence grill for windows (90x90cm)	pcs	2.00	1,500.00	3,000.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>25,450.00</b>
	<b>5. Carpentry</b>				
5.01	wooden purlin 7*5 cm to receive the CIS sheet	ml	40.00	145.00	5,800.00
5.02	Supply and fix ply wood ceiling indoor nailed to 50x50mm. wooden battens, placed at c/c 600mm. both ways with 10mm. open joints. Price includes zigba wooden battens, tid wood corner list and wooden support.	m <sup>2</sup>	34.00	520.00	17,680.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>23,480.00</b>
	<b>6. Metal Work</b>				
6.01	Metal lattice doors in 40x40 mm L.T.Z frames and metal sheet cladding of 20 gauge including door frames - and all the necessary accessories one coat of anti rust and two coats of synthetic paint.				
	a) D1. 100x210 cm	pcs	1.00	3,400.00	3,400.00
	c) w1- 120x120	pcs	2.00	2,200.00	4,400.00
	<i>CARRIED TO SUMMARY ERN</i>				<b>7,800.00</b>
	<b>7. Finishing Work</b>				
7.01	plastering three coat up to fine finish with cement mortar 1:3 to wall left for plastering	m <sup>2</sup>	78.00	176.84	13,793.63

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7.02	250x250mm terrazzo floor tiles flooring bedded on 3cm thick cement sand screed mortar mix (1:3) and joints grouted in cement sand mortar.		32.00	982.49	31,439.58
8.05	skirting with terrazzo tile 10cm height	m <sup>2</sup>			
	<i>CARRIED TO SUMMARY ERN</i>	ml	20.00	170.00	3,400.00
	<b>11. Painting</b>				<b>48,633.21</b>
	a) synthetic paint for internal wall above 1.80m	m <sup>2</sup>	28.00	138.52	3,878.43
	b) plastic paint to external wall	m <sup>2</sup>	78.00	85.39	6,660.75
	c) synthetic paint to ceiling	m <sup>2</sup>	32.00	138.52	4,432.50
	<i>CARRIED TO SUMMARY ERN</i>				<b>14,971.68</b>
	<b>TOTAL CARRIED TO SUMMARY ERN</b>				<b>334,727.25</b>

**MINISTRY OF HEALTH ENGINEERING DIVISION**  
**Adi-Nfas Cealth Center Incinerator 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.					
1.02	Bulk excavation in ordinary soil to a depth of 70cm.	m <sup>2</sup>	9.00	33.43	300.90	
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>	5.00	392.32	1,961.58	
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>	0.80	319.66	255.73	
1.05	25cm. Thick basaltic or equivalent stone hard core well rolled, consolidated and blinded with crushed stone to receive ground slab.	m <sup>3</sup>	2.40	319.66	767.18	
	CARRIED TO SUMMARY	m <sup>2</sup>	3.75	285.86	1,071.99	
<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.				4,357.38	
	a) In 10cm thick ground floor slab	m <sup>2</sup>	3.75	372.29	1,396.07	
	b) 10cm thick C-15 mass concrete for pavement	m <sup>2</sup>	7.20	372.29	2,680.46	
	CARRIED TO SUMMARY				4,076.53	
<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>	3.20	1,872.93	5,993.38	
3.02	Ditto but roughly dressed above NGL to an average hight of 50cm.	m <sup>3</sup>	2.00	2,572.76	5,145.52	
	CARRIED TO SUMMARY				11,138.90	
<b>B- Super Structure</b>						
<b>1. Brick work</b>						
1.01	25cm thick brick wall bedded on cement sand mortar mix 1:4 both faces left for plastering	m <sup>2</sup>	24.00	1,422.95	34,150.68	
	CARRIED TO SUMMARY				34,150.68	
<b>2. metal Work</b>						

**Adi-Nfas Cealth Center Incinerator BOQ**

-M	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
2.01	Supply and fix metallic cover with (openable hole 50x50 cm) made of metal sheet profile and framed at corners.including all the necessary iron monger and approved lock all according to detail drawing.					
	a) 150x250cm	Pcs	1.00	12,409.92	12,409.92	
	b) smoke out let pipe 110 mm dia 1.5 m long with cover head.	Pcs	1.00	2,757.76	2,757.76	
	CARRIED TO SUMMARY				15,167.68	
	<b>3. Finishing Work</b>					
3.01	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.					
3.02	pointing the brick wall with cement mortar 1:3 ratio.	m <sup>2</sup>	44.00	176.84	7,781.02	
	CARRIED TO SUMMARY				7,781.02	
	TOTAL CARRIED TO SUMMARY				76,672.20	