

MINISTRY OF HEALTH ENGINEERING DIVISION

Adi- Nfas Health Center underground water reservoir 50 m3

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
	A. SUBSTRUCTURE					
	1. Excavation and Earth Work					
1.01	Clear off site to remove top vegetable or grassy soil to an average depth of 20cm.	m ²	22.45	33.43	750.59	
1.02	Excavate in bulk to a depth not exceeding 300cm. Starting from natural ground level	m ³	77.28	1,538.74	118,913.57	
1.03	Back fill around the wall with good and selected excavated material.	m ³	12.50	319.66	3,995.74	
1.04	Cart away surplus excavated material to a distance not less than 1km. from site.	m ³	30.00	235.18	7,055.33	
1.05	25cm. Thick basaltic or equivalent stone hard core well rolled, consolidated and blinded with crushed stone to receive ground slab.	m ²	25.76	285.86	7,363.83	
	CARRIED TO SUMMARY ERN				138,079.05	
	2. Concrete Work					
2.01	Lean concrete in C-5, 150 kg./M3 in 5cm. thick under bottom slab	m ²	25.76	135.09	3,479.95	
2.02	Reinforced concrete in C-25, 360kg./M3 filled in to form work and vibrated around rod reinforcement steel bars.					
	a) In 15cm. thick bottom slab	m ²	25.76	1,116.86	28,770.27	
	c) In 15 cm. thick side walls	m ²	61.20	1,116.86	68,351.73	
	c) In 15 cm. thick top slab	m ²	25.76	1,116.86	28,770.27	
2.03	Provide cut and fix in position sawn zigba or steel form work to					
	a) In 15 cm. thick top slab	m ²	20.00	319.12	6,382.49	
	b) In 15 cm. thick side walls	m ²	61.20	319.12	19,530.42	
2.04	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.					
	a) " 10mm.	Kg	790.97	49.33	39,022.30	
	b) " 8 mm	Kg	318.62	49.33	15,719.04	

Adi- Nfas Health Center underground water reservoir 50 m3

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
	CARRIED TO SUMMARY ERN				210,026.47	
	3. Finishing Work					
	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.					
3.01	To internal surface of the side walls floors and roof.	m ²	184.00	176.84	32,538.82	
	4. Metal work					
3.01	metallic sheet cover for an inspection opening 60x60 cm including the metallic frames hinges and locker.	pcs	1.00	1,800.00	1,800.00	
	TOTAL CARRIED TO SUMMARY ERN				382,444.34	

MINISTRY OF HEALTH ENGINEERING DIVISION

Adi-Nfas Health Center Elevated Water Tank

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	REMARK
A. SUBSTRUCTURE						
1. Excavation and Earth Work						
1.01	Clear off site to remove top vegetable or grassy soil to an average depth of 20cm.	m ²	4.00	25.00	100.00	
1.02	footing excavation in ordinary soil to a depth of 150cm.	m ³	2.40	510.01	1,224.03	
1.04	Back fill around isolated footing with selected soil from site and rammed layers not exceeding 20cm thick.	m ³	1.00	130.00	130.00	
TOTAL CARRIED TO SUMMARY					1,454.03	
2. Concrete Work						
2.01	Lean concrete in C-5, 150 kg/M3 in footing	m ²	1.96	135.09	264.78	
2.02	Reinforced concrete in C-25, 360kg./m ³ filled in to form work and vibrated around rod reinforcement steel bars.	m ³	0.98	3,802.43	3,726.38	
2.03	Provide cut and fix in position sawn zigba or steel form work to grade beam, column and footing.	m ²	2.80	500.00	1,400.00	
2.04	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.					
	dia12 mm	kg	98.00	50.47	4,945.62	
	dia 06 mm	kg	48.00	50.47	2,422.34	
CARRIED TO SUMMARY ERN					12,759.12	
B- Super Structure						
1. Concrete Work						
1.01	Reinforced concrete in C-25 360kg of cement/m ³ filled into form work and vibrated around rod reinforcement steel bars	m ³	3.19	3,802.43	12,129.76	
1.02	cement mortar 1:3 to columns and beams	m ²	50	176.84	8,842.07	
1.03	Form work	m ²	42.00	550.00	23,100.00	
1.04	Reinforcement steel bars according to structural drawings price includes cutting, bending, placing in position and tying wires					
	dia 6 mm	Kg.	45.00	50.47	2,270.95	
	dia 12 mm	Kg.	162.40	50.47	8,195.59	
CARRIED TO SUMMARY ERN					54,538.37	
2. Steel Structure						
2.01	CHS stair 4.0 m long. applied with anti rust and three coats of metal synthetic paint (detail on drawing) with steps spaced 30 cm and width of 40 cm.	pcs	1.00	3,600.00	3,600.00	
CARRIED TO SUMMARY ERN					3,600.00	
3. water supply lines and tanker						
3.01	water tank 2 cubic metre capacity reinforced pvc type including all accessories	pcs	2	12000	24,000.00	
3.02	Diam 50mm PVC Water supply pipes and fittings	ml	135	265.25	35,808.86	
3.03	manhole to join pipes and for inspection (0.7*0.6*0.6 m)	pcs	4	2100.00	8,400.00	
CARRIED TO SUMMARY ERN					68,208.86	
TOTAL CARRIED TO SUMMARY					140,560.37	

MINISTRY OF HEALTH ENGINEERING DIVISION

COMPOUND WALL BOQ

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
A. SUBSTRUCTURE						
1. Excavation and Earth Work						
1.01	Clear off site to remove top vegetable or grassy soil to an average depth of 20cm.	m ²	46.80	25.00	1,170.00	
1.02	Trench excavation in ordinary soil to a depth of 70cm.	m ³	136.50	392.32	53,551.24	
1.03	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 ³	39.00	319.66	12,466.70	
1.04	drainage channel excavation to a depth of 50 cm in ordinary soil	m ³	30.00	392.32	11,769.50	
					78,957.43	
TOTAL CARRIED TO SUMMARY						
2. Concrete Work						
2.01	Reinforced concrete in C-25, 360kg./m ³ filled in to form work and vibrated around rod reinforcement steel bars. Grade beam	m ³	39.00	3,722.86	145,191.58	
2.02	Provide cut and fix in position sawn zigba or steel form work to grade beam	m ²	195.00	319.12	62,229.29	
2.03	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.					
	dia 6 mm	kg	541.13	46.32	25,066.35	
	dia 12 mm	kg	1,385.28	49.33	68,342.44	
					300,829.67	
CARRIED TO SUMMARY ERN						
3. Masonry Work						
3.01	50cm. thick basaltic or equivalent stone foundation wall bedded in cement mortar mix 1:4 below NGL.	m ³	136.50	2,572.76	351,181.65	
3.02	50cm. thick basaltic or equivalent stone masonry wall partially dressed bedded in cement mortar mix 1:4 above NGL.	m ³	97.50	2,994.29	291,943.57	
					643,125.22	
CARRIED TO SUMMARY ERN						
B. SUPER STRUCTURE						
1. Concrete Work						
1.01	Reinforced concrete in C-25, 360kg./m ³ filled in to form work and vibrated around rod reinforcement steel bars.(Column)	m ³	7.80	3,802.43	29,658.97	
1.02	Provide cut and fix in position sawn zigba or steel form work					
	in column	m ²	98.00	352.45	34,540.34	
1.03	Reinforcement steel bar according to structural drawings price includes cutting, bending, placing in position and tying wires.				0.00	
	a) " 6mm.	Kg	152.29	47.95	7,302.10	
	b) " 12mm.	Kg	835.43	50.47	42,160.38	

COMPOUND WALL BOQ

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
	<i>CARRIED TO SUMMARY ERN</i>				113,661.79	
	2. Masonry Work					
2.01	20cm thick H.C.B wall bedded on cement sand mortar mix 1:3 both faces left for plastering	m ²	585.00	636.17	372,160.24	
2.02	pointing the H.C.B wall using cement mortar 1:3 mix	m ²	1,248.00	60.94	76,059.06	
	<i>CARRIED TO SUMMARY ERN</i>				448,219.30	
	3. Metal Work					
3.01	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) Main Gate (250x400) cm	Pcs	2.00	16,000.0	32,000.00	
	b) staff intrance door (200x200)cm	pcs	2.00	8,000.0	16,000.00	
	<i>CARRIED TO SUMMARY ERN</i>				48,000.00	
	TOTAL CARRIED TO SUMMARY ERN				1,632,793.4	

MINISTRY OF HEALTH ENGINEERING DIVISION

ADI- NIFAS HEALTH CENTER ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
	Electrical Works Installation					
1	LOW VOLTAGE EARTHING SYSTEM					
	Low voltage system earthing consisting of galvanized steel earthing rod and soft drawn bare copper conductor earthing lead inside PVC pipe , connected firmly to earthing terminal of DB at one end and to earthing rod inside manhole at the other end including all connecting and fixing accessories.					
	a) Copper bond steel cored ground rod of 1500 x 16mm with appropriate clamp	No.	4	5,000.00	20,000.00	
	b) Soft drawn galvanized copper bare conductor of 1x16sq. mm	Lm	50	95.00	4,750.00	
2	MANHOLE					
	manhole of size 60*60*70 cm in brick masonry and reinforced concrete cover with lifting lug.	no.	12	2,300.00	27,600.00	
3	PIPES AND CONDUITS	ml			-	
a	rigid pvc conduits of 50 mm diameter	ml	250	180.00	45,000.00	
b	flexible conduits of 16 mm diameter	ml	350	80.00	28,000.00	
4	FEEDER CABLES				-	
	pvc sheathed pvc insulated power cable type siemens NYY 0.6/1kv or equivalent 5x16 sq.mm	ml	1,500	80.00	120,000.00	
5	DISTRIBUTION BOARDS					
	All distribution boxes and its content shall conform to CE standards.	No.				
	a) Surface mounted distribution board type SDB-CAF in sheet steel enclosure with lockable door including bus bars of 63A rating neutral & grounding bars, complete with all accessories and of C type circuit breakers should comply with CE standards type legrand or ABB or Siemens or equivalent & consisting of :	No.	4	16,000.00	64,000.00	
	4pc main ACB of 45A/3p, 6kA rating					
	5pc main ACB of 25A/3p, 6kA rating					
	2pc ACB of 32A/3p, 6kA rating					
	6pcs ACB of 16A/1p, 6kA rating					
	20pcs ACB of 10A/1p, 6kA rating					
	Board size: 12 module					
	b) Flash mounted distribution board type SDB-CAF in sheet steel enclosure with lockable door including bus bars of 45A rating neutral & grounding bars, complete with all accessories and of C type circuit breakers should comply with CE standards type legrand or ABB or Siemens or equivalent & consisting of :	No.	3	12,500.00	37,500.00	
	2pcs ACB of 32A/1p, 6kA rating					
	3pcs ACB of 16A/1p, 6kA rating					
	4pcs ACB of 10A/1p, 6kA rating					

ADI- NIFAS HEALTH CENTER ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	REMARK
	a) Flash mounted distribution board type SDB-CAF in sheet steel enclosure with lockable door including bus bars of 32A rating neutral & grounding bars, complete with all accessories and of C type circuit breakers should comply with CE standards type legrand or ABB or Siemens or equivalent & consisting of :	No.	2	9,500.00	19,000.00	
	3pcs ACB of 16A/1p, 6kA rating					
	2pcs ACB of 10A/1p, 6kA rating					
	c) Flash mounted distribution board type SDB-CAF in sheet steel enclosure with lockable door including bus bars of 32A rating neutral & grounding bars, complete with all accessories and of C type circuit breakers should comply with CE standards type legrand or ABB or Siemens or equivalent & consisting of :	No.	2	8,000.00	16,000.00	
	3pcs ACB of 16A/1p, 6kA rating					
	2pcs ACB of 10A/1p, 6kA rating					
	1pc ACB of 32A/3p, 6kA rating					
6	sockets surface mounted on walls	No.	120	230.00	27,600.00	
7	switches surface mounted on walls	No.	98	180.00	17,640.00	
8	LIGHT FIXTURES					
	All fluorescent light fittings shall be power factor compensated (with compensation capacitor) and/or duo type (as specified here or equivalent to CE standard).					
	1) Fluorescent light fitting type Siteco (Siemens) 5LS 216 B-1A with open lamp quick release system , IP 65, and 1xT8 18W lamp.	No.	38	1,300.00	49,400.00	
	2) Fluorescent light fitting type Siteco (Siemens) 5LS 216 B-1CT1 open lamp quick release system, IP 65, and 1xT8 36W lamp.	No.	78	1,650.00	128,700.00	
9	WIRES and CABLES					
	1) wires and cables actual length to be taken on site NYM 450/750V 5x16mmsq.	ml	1,000	120.00	120,000.00	
	TOTAL CARRIED TO SUMMARY ERN				725,190.00	