Conveyance System of El Sheikh Gaber El Sabbah Canal Between KM 108.466 and KM 118.560 El Salaam No.7 (Bir El Abd) Pumping Station (Package-2) Cost Estimate

				Local C	Local Currency	Foreign (Foreign Currency
Pay Item	Description	Unit	Quantity	Egyptia	Egyptian Pound	Ď	NS\$
				Unit	Amount	Unit	Amount
DT-0800	Discharge Tank						
DT-0801	Stripping	m ₃	12,500	1.5	18,750		
DT-0802	DT-0802 Excavation (2), below the level of embankment	m ³	24,000	2.50	000'09		
DT-0803	DT-0803 Fill (1), for canal	m ³	18,500	3.25	60,125		
DT-0804	DT-0804 Fill (2), for embankment	m ₃	107,000	2.75	294,250		
DT-0805	DT-0805 Backfill (1), for structure	m ₃	892	3.25	2,899		
DT-0806	DT-0806 Stone Pitching with Mortar Caulking	m ₃	4,290	06	386,100		
DT-0807	DT-0807 Mortar Lining (0.10m thick)	m^2	7,710	15	115,650		
DT-0808	DT-0808 Polyethylene Sheet (1.5mm thick)	m ²	7,710	20	154,200		
DT-0809	DT-0809 Concrete Lining (0.25m thick), ck=225kgf/m2	m^2	5,910	58	342,780		
DT-0810	DT-0810 Concrete Lining (0.20m thick), ck=225kg/cm2	m^2	1,800	48	86,400		
DT-0811	DT-0811 Plain Concrete, ck=180kgf/cm2	m ₃	25	186	9,672		
DT-0812	DT-0812 Reinforced Concrete (2), ck=275kgf/cm2, 100kg/m3	m ₃	749	611	457,639		
DT-0813	DT-0813 Bitumen Coating (Coal Tar Painting)	m^2	526	4	2,104		
DT-0814	DT-0814 Water Stop (w=0.20m)	ш	24	57	1,368		
DT-0815	DT-0815 Expansion Joint	m^2	142	165	23,430		
DT-0816	DT-0816 Contraction Joint	m^2	106	83	862'8		
DT-0817	DT-0817 Handrail (H=0.9m)	m	64	258	16,512		
DT-0818	DT-0818 Miscellaneous Steel (Steel Ladder, etc.)	ton	1	4,500	4,500		
DT-0819	DT-0819 Additional Reinforcement (Steel Bar No.52)	ton	4	2,300	9,200		

				Local C	Local Currency	Foreign (Foreign Currency
Pay Item	Description	Unit	Quantity	Egyptia	Egyptian Pound	O	\$SO
		:		Unit	Amount	Unit	Amount
DT-0820	DT-0820 Surface Course of Asphalt Paved Road (Asphalt Concrete	m ²	3,450	6	31,050		
	of 5cm thick)						
DT-0821	DT-0821 Prime coat	m^2	3,450	1	3,450		
DT-0822	DT-0822 Upper Subgrade (Macadam Layer of 0.30m)	m^2	3,580	10	35,800		
DT-0823	DT-0823 Lower Subgrade (0.25m thick Laterite Pavement)	m^2	3,580	9	21,480		
DT-0824	DT-0824 Laterite Paved Road (0.25m thick Laterite Pavement)	m^2	4,150	9	24,900		
DT-0826	DT-0826 Laterite Pavement of 0.2m thick on Berms, etc.	m ²	5,690	5	28,450		
DT-0827	DT-0827 Excavation of Pits for Planting Trees	Km	1.4	300	420		
DT-0828	DT-0828 Supply of Clayey Soil for Pits	Km	1.4	2,500	3,500		
DT-0829	DT-0829 Plantation of Gasuarina Tree	Km	6.0	500	450		
DT-0830	DT-0830 Plantation of Acacia Tree	Km	5.0	500	250		
DT-0830	DT-0830 Care of Trees	Km	1.4	2,500	3,500		
DT-0831	DT-0831 Drip Irrigation Systems for Pay Item No. DT-0829 and DT-0830	L.S.	1		5,600		
DT-800 Total	Total				1,755,588		

Conveyance System of El Sheikh Gaber El Sabbah Canal Between KM 108.466 and KM 118.560 El Salaam No.7 (Bir El Abd) Pumping Station (Package-2) Cost Estimate

				Local C	Local Currency	Foreign	Foreign Currency
Pay Item	Description	Unit	Quantity	Egyptian Pound	n Pound	Ö	\$SO
				Unit	Amonnt	Unit	Amount
OR-0900	No.3 Access Road						
OR-0901	OR-0901 Stripping	m,	77,200	1.5	115,800		
OR-0902	OR-0902 Excavation	m,	20,200	2.25	45,450		
OR-0903 Fill	Fill	m	333,000	3.25	3.25 1,082,250		
OR-0904	OR-0904 Stone Pitching with Mortar Caulking	, III	13,700	06	90 1,233,000		
OR-0905	OR-0905 Surface Course of Asphalt Paved Road (Asphalt Concrete	m^2	65,800	6	592,200		
OR-0906	OR-0906 Prime coat	m ²	65,800	1	65,800		
OR-0907	OR-0907 Upper Subgrade (Macadam Layer of 0.30m)	m ^z	68,300	10	683,000		
OR-0908	OR-0908 Lower Subgrade (0.25m thick Laterite Pavement)	m ^z	68,300	9	409,800		
OR-0900 Total	Total				4,227,300		

(Package-2)

Description	Unit	Unit Price Egyptian Pound	Remarks
Excavation (1), above embankment	m ³		above bank level
Excavation (2), below embankmet		2.50	below bank level
Fill (1), for canal			backfilling
			embankment
Trimming of Side Slopes of	m ³		
Fill with Laterite and Laterite	m ³	25	
Laterite Pavement of 0.2m thick	m ²	5	
Stone Pitching with Mortar Caulking	m ³	90	
Crushed Gravel Bedding	m ³	35	
Mortar Lining of 10cm thick		15	
Polyethylene Sheet (1.5mm thick)		20	
Concrete Lining (0.25m thick)			
<u> </u>			
Reinforced Concrete (1)	m ³	607	
Reinforced Concrete (2)	m ³	611	
Fino Concrete, 275kgf/cm2	m ³	216	
Plain Concrete, 180kgf/cm2	m ³	186	
Bitumen Coating	m ²	4	
Ladder Rung & Miscellaneous Steel	ton	4,500	
Additional Reinforcement (Steel Bar No. 52)	ton	2,300	
Laterite Paved Road (0.25m	m ²	6	
Surface Course of Asphalt Paved Road (Asphalt Concrete of 5cm thick)	m ²	9	
Prime Coat	m ²	1	
Upper Subgrade (Macadam Layer of 0.30m)	m ²	10	
Lower Subgrade (0.25m thick Laterite Pavement)	m ²	6	
Kilometer Sign	No.	250	
	Km		
Plantation of Acacia Trees	Km	500	
	Excavation (1), above embankment Excavation (2), below embankmet Fill (1), for canal Fill (2), for embankment Trimming of Side Slopes of Concrete Lined Canal Fill with Laterite and Laterite Bedding Laterite Pavement of 0.2m thick on Berms, etc. Stone Pitching with Mortar Caulking Crushed Gravel Bedding Mortar Lining of 10cm thick Polyethylene Sheet (1.5mm thick) Concrete Lining (0.25m thick) Concrete Lining (0.20m thick) Leakage Test Reinforced Concrete (1) ck=275kgf/cm2, 80kg/m3 Reinforced Concrete (2) ck=275kgf/cm2, 100kg/m3 Fino Concrete, 275kgf/cm2 Plain Concrete, 180kgf/cm2 Bitumen Coating Ladder Rung & Miscellaneous Steel Additional Reinforcement (Steel Bar No. 52) Laterite Paved Road (0.25m thick Laterite Pavement) Surface Course of Asphalt Paved Road (Asphalt Concrete of 5cm thick) Prime Coat Upper Subgrade (Macadam Layer of 0.30m) Lower Subgrade (0.25m thick Laterite Pavement) Kilometer Sign Excavation of Pits for Planting Trees Supply of Clayey Soil for Pits Plantation of Gasuarina Trees	Excavation (1), above embankment m³ Excavation (2), below embankmet m³ Fill (1), for canal m³ Fill (2), for embankment m³ Trimming of Side Slopes of Concrete Lined Canal Fill with Laterite and Laterite Bedding Laterite Pavement of 0.2m thick on Berms, etc. Stone Pitching with Mortar Caulking Crushed Gravel Bedding m³ Mortar Lining of 10cm thick m² Concrete Lining (0.25m thick) m² Concrete Lining (0.25m thick) m² Concrete Lining (0.20m thick) m² Leakage Test No. Reinforced Concrete (1) m³ Reinforced Concrete (2) m³ Reinforced Concrete (2) m³ Fino Concrete, 275kgf/cm2 m³ Plain Concrete, 180kgf/cm2 m³ Bitumen Coating m² Ladder Rung & Miscellaneous Steel ton Additional Reinforcement (Steel Bar No. 52) ton Laterite Paved Road (0.25m thick) m² Upper Subgrade (Macadam Layer of 0.30m) Lower Subgrade (Macadam Layer of 0.30m) Lower Subgrade (0.25m thick Laterite Pavement) Kilometer Sign No. Excavation of Pits for Planting Trees Km Supply of Clayey Soil for Pits Plantation of Gasuarina Trees Km	Excavation (1), above embankment m³ 2.25

(Package-2)

Ser. No.	Description	Unit	Unit Price Egyptian Pound	
33	Drip Irrigation Systems	Km	4,000	
34	Marble Staff Gauge	m	125	
35	Water Stop (w=0.20m)	m	57	
36	Expansion Joint	m ²	165	
37	Contraction Joint	m ²	83	
38	Handrail (H=1.10m)	m	250	16.99 kg/m
39	Kilometer Post	No.	1,081	
40	Riprap	m^3	60	
41	Dowel Bars (φ 19, L=1.0m)	No.	8	
42	Net Wire Fence H=1.5m	m ²	20	
43	Stone Pitching without Mortar Caulking	m ³	60	
44	Excavation (3); (with Dewatering)	m^3	33	
45	Backfill (2); (with Dewatering)	m^3	42	
46	Reinforced Concrete (1); (with Dewatering), 80 kg/m3	m ³	743	
47	Reinforced Concrete (2); (with Dewatering), 100 kg/m3	m ³	747	
48	Reinforced concrete (3) (Fcu=300kgf/cm2), 170 kg/m3	m ³	772	Building Works
49	Handrail (H=0.90m)	m	258	17.55 kg/m
50	Green Belt (Width 50m of Planting Trees)	m	290	
51	Secondary Concrete, ck=275kgf/cm2, 10 kg/m3	m ³	218	
52	Brick Wall t=0.24m	m ³	200	
53	Mortar Steel Trowel	m ²	14	
54	Non Slip Tile Facing	m	57	
55	Drain Pit with Gravel Filter and PVC ϕ 100	No.	17	
56	Stripping	m3	1.5	
57	Laterite and Crushed Gravel Pavement including trimming	m2	12	

Breakdown of Unit Price

(Package-2)

Pay Item No. PP-0789: Drain Pit with Gravel Filter and PVC ϕ 100

Pay	Description	Unit	Quantity	Unit	Amount
Item				L.E	Egyptian Pound
	Crushed Gravel Bedding	m3	0.125	35	4.38
	PVC (D=100mm)	m	0.6	21	12.60
	Excavation	m3	0.125	2.25	0.28
	Total	No.			17

Pay Item PP-0766: Laterite and Crushed Gravel Pavement including trimming

Pay Item	Description	Unit	Quantity	Unit L.E	Amount Egyptian Pound
	Laterite (t=0.2m)	m3	0.2	25	5
	Crushed Gravel (t=0.2m)	m3	0.2	35	7
	Total	m2			12

Conveyance System of El Sheikh Gaber El Sabbah Canal Between KM 118.560 and KM 132.500 (Package-3) Cost Estimate

SUMMARY AND TOTAL

Pay Item No.	Item of Works	Amount	Remarks
		Egyptian Pound	
CC-0300	No.3 Open Canal	94,781,000	
Total		94,781,000	

Conveyance System of El Sheikh Gaber El Sabbah Canal Between KM 118.560 and KM 132.500 Cost Estimate

Pay Item	Description	Unit	Quantity	Unit L.E	Amount Egyptian Pound
CC-0300	No.3 Open Canal	·· -			
	Excavation (1), above embankment	m^3	1,850,000	2.25	4,162,500
CC-0302	Excavation (2), below embankment	m ³	1,660,000	2.50	4,150,000
CC-0303	Fill (1), for canal	m ³	1,720,000	3.25	5,590,000
CC-0304	Fill (2), for embankment	m ³	2,270,000	2.75	6,242,500
CC-0305	Trimming of Side Slopes of Concrete Lined Canal	m ³	136,000	3.00	408,000
CC-0306	Fill with Laterite and Laterite Bedding	m ³	2,000	25.00	50,000
CC-0307	Laterite Pavement of 0.2m thick on Berms, etc.	m ²	115,000	5.00	575,000
CC-0308	Stone Pitching with Mortar Caulking	m ³	230,000	90	
CC-0309	Crushed Gravel Bedding	m^3	3,100	35	108,500
CC-0310	Mortar Lining of 10cm thick	m ²	464,000	15	6,960,000
CC-0311	Polyethylene Sheet (1.5mm thick)	m ²	461,000	20	9,220,000
CC-0312	Concrete Lining (0.25m thick), ck=275kgf/cm2	m ²	339,000	58	19,662,000
CC-0313		m ²	108,000	48	5,184,000
CC-0314	Leakage Test	No.	28	7,500	210,000
CC-0315	Reinforced Concrete (1) other than Bridge Deck ck=275kgf/cm2, 50kg/m3	m ³	6,200	601	3,726,200
CC-0316	Reinforced Concrete (2) for Bridge Deck, ck=275kgf/cm2, 130kg/m3	m ³	1,000	617	617,000
CC-0317	Fino Concrete, 275kgf/cm2	m ³	100	216	21,600
CC-0318	Plain Concrete, 180kgf/cm2	m^3	800	186	148,800
CC-0319	Bitumen Coating	m^2	5,700	4.00	22,800
CC-0320	Ladder Rung & Miscellaneous Steel	ton	1	4,500	4,500
CC-0321	Additional Reinforcement (Steel Bar No. 52)	ton	50	2,300	115,000
CC-0322	Laterite Paved Road (0.25m thick Laterite Pavement)	m ²	189,000	6.00	1,134,000
CC-0323	Surface Course of Asphalt Paved Road (Asphalt Concrete of 5cm thick)	m ²	182,000	9.00	1,638,000
CC-0324	Prime Coat	m^2	182,000	1.00	182,000
CC-0325	Upper Subgrade (Macadam Layer of 0.30m)	m ²	189,000	10.00	1,890,000
	Lower Subgrade (0.25m thick Laterite Pavement)	m ²	189,000	6.00	1,134,000

Pay	Description	Unit	Quantity	Unit	Amount
Item				L.E	Egyptian Pound
CC-0327	Kilometer Sign	No.	15	250	3,750
CC-0328	Excavation of Pits for Planting Trees	Km	148	300	44,400
CC-0329	Supply of Clayey Soil for Pits	Km	148	2,500	370,000
CC-0330	Plantation of Gasurina Trees	Km	92	500	46,000
CC-0331	Plantation of Acacia Trees	Km	56	500	28,000
CC-0332	Care of Trees	Km	148	2,500	370,000
CC-0333	Drip Irrigation Systems for Pay Item Nos. CC-0330 and CC-0331	L.S.	1		56,000
CC-0334	Marble Staff Gauge	m	48	125	6,000
CC-0300	Total				94,780,550

(Package-3)

Ser. No.	Description	Unit	Unit Price Egyptian Pound	Remarks
1	Excavation (1), above embankment	m ³	2.25	above bank level
2	Excavation (2), below embankment	m ³	2.50	below bank level
3	Fill (1), for canal	m ³	3.25	
4	Fill (2), for embankment	m ³	<u> </u>	embankment
	Trimming of Side Slopes of	$\frac{m}{m^3}$		
5	Concrete Lined Canal	111	3.00	
	Fill with Laterite and Laterite	m^3		
6	Bedding		25	
_	Laterite Pavement of 0.2m thick	m^2	_	
7	on Berms, etc.		5	
0	Stone Pitching with Mortar	m^3	00	
8	Caulking	3	90	
9	Crushed Gravel Bedding	m ³	35	
10	Mortar Lining of 10cm thick	m ²	15	
11	Polyethylene Sheet (1.5mm thick)	m ²	20	
12	Concrete Lining (0.25m thick)	m^2	58	
13	Concrete Lining (0.20m thick)	m^2	48	
14	Leakage Test	No.	7,500	
	Reinforced Concrete (1)	m^3		
15	other than Bridge Deck			
	ck=275kgf/cm2, 50kg/m3		601	
1.0	Reinforced Concrete (2)	m^3		
16	for Bridge Deck,		617	
17	ck=275kgf/cm2, 130kg/m3 Fino Concrete, 275kgf/cm2	m ³		
17			216	
18	Plain Concrete, 180kgf/cm2	m ³	186	
19	Bitumen Coating	m ²	4	
20	Ladder Rung & Miscellaneous Steel	ton	4,500	
21	Additional Reinforcement	ton	2 200	
	(Steel Bar No. 52) Laterite Paved Road (0.25m)	2	2,300	
22	thick Laterite Pavement)	m^2	6	
	Surface Course of Asphalt Paved	m^2		
23	Road (Asphalt Concrete of 5cm	111		
	thick)		9	
24	Prime Coat	m ²	1	
	Upper Subgrade (Macadam	m ²		
25	Layer of 0.30m)		10	
	Lower Subgrade (0.25m thick	\mathbf{m}^2		
26	Laterite Pavement)		6	
27	Kilometer Sign	Nos.	250	
28	Excavation of Pits for Planting Trees	Km	300	
29	Supply of Clayey Soil for Pits	Km	2500	
30	Plantation of Gasuarina Trees	Km	500	

(Package-3)

Ser. No.	Description	Unit	Unit Price	Remarks
			Egyptian Pound	
31	Plantation of Acacia Trees	Km	500	
32	Care of Trees	Km	2500	
33	Drip Irrigation Systems	Km	4,000	L=14 Km
34	Marble Staff Gauge	m	125	

SUMMARY AND TOTAL

Pay Item No.	Item of Works	Local Currency Amount Egyptian Pound	Foreign Currency Amount
SE-0400	Main Power Substation (Electrical Works)	39,214,000	
WB-0400	Main Power Substation (Building Works)	1,284,000	
AB-0400	Administration (Building Works)	842,000	
Total		41,340,000	

,	4	:		Local C	Local Currency	Foreign Currency	urrency
Pay Item	Description	Onit	Quantity	Egyptia	Egyptian Pound		
				UnitPrice	Amount	UnitPrice	Amount
SE-0400	Main Power Substation (Electrical Works)						
SE-0401	Power Transformer: Outdoor type						
	66/11 kV, 50 Hz, 3-Phase, 25 MVA	unit	4	1,943,052	7,772,209		
SE-0402	SE-0402 Voltage Detector						
	Rated voltage: 66 kV, 3-Phase, 50 Hz	unit	2	38,861	77,722		
SE-0403	Earthing switch: 72.5 kV, 1250 A						
	50 Hz, 3 - pole, Air disconnector						
	Manual operation, indoor type	unit	2	582,916	1,165,831		
SE-0404	SE-0404 66 kV Disconnector: 72.5 kV, 1250 A						
	50 Hz, 3 - pole, Air disconnector						
	Electric Motor driven type	unit	4	388,610	1,554,442		
SE-0405	SE-0405 66 kV Disconnector						
	Electric Motor driven type 1000A						
	DS-P1, DS-P2, DS-P3 and DS-P4	unit	4	349,749	1,398,998		
SE-0406	SE-0406 66 kV Disconnector						
	Manual operation type 800A	unit	2	233,166	466,333		
SE-0407	SE-0407 66 kV Circuit Breaker (Indoor type)						
	Gas Insulated Circuit Breaker						
	3-Phase, 50 Hz, 72.5 kV, 25 kA, 1250 A						
	Hydraulic or Electric motor operation type	unit	2	466,333	932,665		
SE-0408	SE-0408 Ditto, but rating current: 800 A	unit	4	466,333	1,865,330		
SE-0409	SE-0409 66 kV Current transformer (Indoor type)						
	Rated as 66 kV, 3-Phase, 50 Hz, 1250/5A						
	Rated Burden: 60 VA	unit	2	155,444	310,888		
SE-0410	Ditto, but Primary current: 400 A	unit	4	155,444	621,777		

				Local (Local Currency	Foreign Currency	Jurrency
Pay Item	Description	Unit	Quantity	Egyptia	Egyptian Pound		
				UnitPrice	Amount	UnitPrice	Amount
SE-0411	66kV Capacitance Potential Device 66 kV/110 V	unit	3	174,875	524,624		
SE-0412	66 kV Lightning Arrestor: Serge gap type 84 kV, 10,000 A with operation time counter	unit	2	77,722	155,444		
SE-0413	SE-0413 Cubicle type 11kV Switchgears: IP 55 Vertical self standing type, made of sheet steel (See DWG. SSE-404) Neutral Grounding Panel Grounding current transformer, lightning						
SE-414	Ditto, but 11 kV Cable termination Panel Terminal for 11 kV XLPE 400mm2 x 9	umit	4	116,583	466,333		
SE-0415	Ditto, but VCB Panel VCB 12 kV, 2000 A, 40 kA, drawable type	unit	4	567,371	2,269,485		
SE-0416	Ditto, but 11 kV Feeder Panel VCB 12 kV, 3000 A, 40 kA, drawable type GCT and Grounding over current relay	unit	2	1,088,109	2,176,219	:	
SE-0417	Ditto, but Lightning Arrestor Panel VCB 12 kV, 1000 A, 40 kA, drawable type and Lightning arrestor	unit	2		1,243,553		
	Ditto, but 11 kV Feeder Panel VCB 12 kV, 400A, 40 kA, drawable type	unit	2	621,777	1,243,553		
SE-0419	Ditto, but Bus-Tie Panel VCB 12 kV, 3000 A, 40 kA, drawable type and CT x 2	unit	1	1,088,109	1,088,109		
SE-0420	Station Transformer Panel Indoor cubicle, vertical self standing, IP 55 (See DWG. SSE-404) Transformer Panel (Dry type transformer) 11 kV/380-220 V, 500 kVA	unit	2	582,916	1,165,831		

				Local	Local Currency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egypti	Egyptian Pound		
				UnitPrice	Amonnt	UnitPrice	Amount
SE-0421	Ditto, but Transformer feeder Panel						
	VCB: 12.5 kV, 3-Pole, 600 A, 40 kA						
	Drawable, manual operation type	unit	2	621,777	1,243,553		
SE-0422	Ditto, but Low Voltage Distribution Panel						
	Main MCCB: 3-Pole+N 800A x 2						
	Bus-Tie MCCB: 3-Pole +N 800 A						
	Branch MCCB: 3-Pole+N 100A x 10	unit	1	310,888	310,888		
SE-0423	Relay Panel: Indoor vertical stand type, IP 55	unit	1	388,610	388,610		
SE-0424	66 kV Substation Control Board						
	Consist of remote operation switches,						
	status indication lamps, alarm indication and						
	mimic diagram.	unit	—	310,888	310,888		
SE-0425	DC Power Unit: Metal clad type, IP 55						
	Battery: Alkaline type 220V, 500Ah						
	Charger: Thyristor, AC -Phase, 380V, 50A						
	DC Circuit Breaker: 2-Pole, 100A x 2 and						
	2-Pole 50A x 8	unit	1	139,900	139,900		
SE-0426	SE-0426 Cubicle type 11 kV VCB Panel: IP 55						
	Vertical self standing, unit enclosed type						
	Installed in No.7 Pumping Station						
	Power cable lead-in Panel						
	For 11 kV XLPE '1C-500mm2 x 4) x 3	unit	2	83,065	166,131		
SE-0427	Ditto, but Power receiving panel						
	Draw out type VCB: 12 kV, 3000 A,	unit	2	668,896	1,337,791		
SE-0428	Ditto, but PT panel						
	2-PTs: 11kV/110V, 50VA	unit	2	215,679	431,358		
SE-0429	SE-0429 66kV aerial busbars (AC1)						
	Heat resistance aluminum alloy stranded						
	wire, Sectional area: 1600mm2	ш	240	486	116,580		

				Local (Local Currency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egyptia	Egyptian Pound		
				UnitPrice	Amount	UnitPrice	Amount
SE-0430	Aerial earthing conductor						
	Hard drawn copper stranded conductor						
	5mm diameter.	E	40	16	648		
SE-0431	66 kV aerial bus bar (AC2)						
	Aluminum Pipe 60 mm diameter	ш	200	486	97,150		
SE-0432	66 kV aerial bus bar (AC3)						
	Aluminum Pipe 50 mm diameter	m	300	421	126,295		
SE-0433	Insulators/Bushing						
	Consist of insulator, accessories and fittings						
	4-Couple of 250 mm diameter. Disk type Insulator	pc.	12	1,133	13,601	-	
SE-0434	Ditto, but Line post insulator						
	For 66kV busbars, 190 mm diameter. 740 mm length	pc.	18	1,781	32,060		
SE-0435	Wall through Bushing (WB1)						
	66 kV, 2000 A	pc.	9	8,096	48,575		
SE-0436	Wall through Bushing (WB2)						
	66 kV, 800 A	pc.	12	5,181	62,176		•
SE-0437	11 kV Feeder cable						
	11 kV XLPE 1C-400 mm2	m	470	583	273,964		
SE-0438	SE-0438 Control and Operation cables include with						
	terminals, accessories and fittings						
	Copper tape shielding type SCC 4C-10 mm2	m	875	113	99,174		
SE-0439	Ditto, but SCC 4C-6 mm2	m	385	26	37,403		
SE-0440	Ditto, but SCC-4C-4 mm2	ш	2,030	18	164,346		
SE-0441	Ditto, but SCC-3C-4 mm2	ш	1,190	99	77,073		
SE-0442	SE-0442 Underground grounding grid wire						
	Bare stranded copper, 120 mm2	m	1,000	16	16,192		
SE-0443	Indoor grounding conductor						
	Bare stranded copper, 70 mm2	m	80	10	777		
SE-0444	SE-0444 Grounding rod						
	Copper rod: 14mm diameter, 3m length	unit	34	324	11,010		

				Local (Local Currency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egyptia	Egyptian Pound		
				UnitPrice	Amount	UnitPrice	Amount
SE-0445	SE-0445 Grounding plate						
	Copper plate: 900mm x 900mm,						
	thickness: more than 1.5mm	unit	11	1,619	17,811		
SE-0446	SE-0446 Grounding conductor in Cable pit						
	Bare stranded copper, 70 mm2	ш	330	10	3,206		
SE-0447	SE-0447 Grounding for structure/foundations						
	Bare stranded copper, 120 mm2	unit	300	16	4,858		
SE-0448	SE-0448 Underground feeder cables for No.7 Pumping Station						
	including excavation and backfilling						
	Consist of cables, connectors, fittings, conduits,						
	supporters, accessories and etc. as required.						
	11 kV XLPE 1-Core, 500 mm2	ш	00009	648	3,886,010		
SE-0449	SE-0449 Manhole: inside dimension 2 x 2 x 2.5 m						
	Made of reinforced concrete include with						
	cable support brackets, steps, drainage system						
	and heavy weight withstand type cast iron	•					
	manhole cover	set	9	9,715	58,290		
SE-0450	SE-0450 Cable trench: Width=1.5 m, Depth=0.6 m						
	and Width=1m, Depth=0.4m						
	including excavation and backfilling						
	with sheet steel cover	m	160	810	129,534		:
SE-0400 Total	Total				39,214,084		

				Local	Local Currency	Foreign Currency	Currency
Pay Item	Description	Unit	Quantity	Egyptia	Egyptian Pound		•
				Unit Price	Amount	Unit Price	Amount
WB-0400	WB-0400 Main Power Substation (Building Works)						
WB-0401	WB-0401 Excavation and disposal for building	m3	2,017	2.25	4,538		
WB-0402	WB-0402 Backfill including supply of material	m3	1,900	3.25	6,175		
WB-0403	WB-0403 Final grading	m2	7,520	1	7,520		
WB-0404	WB-0404 Lean concrete 75 mm thick.	m3	137	186	25,482		
WB-0405	WB-0405 Reinforced concrete (Fcu=275kg/cm2) for	m3	098	615	221,400		
	foundation and slab on grade, including						
	reinforcing deformed bars (Grade 36/52) 120						
	kg/m3 and form works						
WB-0406	WB-0406 Reinforced concrete (Fcu=300kg/cm2) for grade	m3	482	764	368,248		
	beams, columns, walls beams and slabs,						
	including reinforcing deformed bars (Grade						
	36/52) 130 kg/m3 and form works						
WB-0407	WB-0407 Masonry brick wall works (cement bricks)	m3	200	200	100,000		
	including reinforced concrete lintel and bond						
	beams where necessary, t=240mm						
WB-0408	WB-0408 Cement plastering, t=20mm	m2	4,160	14	58,240		
WB-0409	WB-0409 Steel ladders w/painting	kg	200	4.5	006		
WB-0410	WB-0410 Checkered plates, t=4.5mm	kg	7,144	4.5	32,148		
WB-0411	WB-0411 Wire mesh fencing, complete	m2	65	200	11,800		
WB-0412	WB-0412 Wire mesh doors, complete	m2	6	300	2,700		
WB-0413		m2	1,425	30	42,750		
	insulation 500mm, covered with cement mortar 70 mm and						
 	cement tiles.		6				
WB-0414	WB-0414 Paint on plastered walls, exterior	m2	2,080	16	33,280		

				Local	Local Currency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egypti	Egyptian Pound		
				Unit Price	Amount	Unit Price	Amount
WB-0415	WB-0415 Paint on plastered walls, interior	m2	2,080	16	33,280		
WB-0416	WB-0416 Paint on ceiling	m2	1,344	16	21,504		
WB-0417	WB-0417 Steel door, including painting	kg	100	3.8	086		
WB-0418	WB-0418 Steel main access door, including glazing and	kg	1,020	3.8			
WB-0419	Aluminum window	m2	130	375	48,750		
WB-0420	WB-0420 Fixed aluminum louver	m2	9	375	2,250		
WB-0421	WB-0421 Separate cement floor finishing, with hardener including base (H=100mm)	m2	1,344	20	26,880		
WB-0422	WB-0422 Lighting fixture: Ceiling surface mounted open type IP 51, for fluorescent lamp 32 watt -1 Type:B - FL321	set	36	250	9,000		
WB-0423	WB-0423 Ditto, but for fluorescent lamp 32 watt - 2 Type: B-FL322	set	18	150	2,700		
WB-0424	WB-0424 Lighting fixture: High ceiling mounted type with metallic reflector IP 51, for 400 watt high-pressure sodium lamp Type: D-HPS400	set	15	200	7,500		
WB-0425	WB-0425 Lighting fixture: Wall mounted type with plastic cover IP 65, for fluorescent lamp 32 watt -1 Type: G - FL321	set	3	150	450		
WB-0426	WB-0426 Emergency lighting fixture: Ceiling or wall mounted open type IP 51, for incandescent lamp 100 watt powered by DC 100 V, Type: H-IL100	set	26	250	0,500		
WB-0427	WB-0427 Socket outlet: Wall surface flush mounted type AC Single Phase 220 V, 2-Pole with earth pole 15 amp double	set	31	20	1,550		
WB-0428	Ditto, but 30 amp single outlet	set	7	120	840		
WB-0429	WB-0429 Socket outlet: Wall surface mounted type AC 3-Phase 380 V, 3-Pole with earth pole 30 amp single outlet	set	5	120	009		
WB-0430	WB-0430 Lighting switch: Wall surface flush mounted type, one way switch, AC 250 V, 10 amp	set	9	20	300		
WB-0431	WB-0431 Ditto, but remote control switch for magnetic contactor installed in distribution board	set	3	250	750		
WB-0432	WB-0432 Distribution board: Wall surface mounted metallic cabinet type DB-SS1	set	1	500	500		

				Local	Local Currency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egypti	Egyptian Pound		
				Unit Price	Amount	Unit Price Amount	Amount
WB-0433 Ditto, but	Ditto, but DB-SS2	set	1	200	500		
WB-0434	WB-0434 Lighting main feeder cable from Station Transformer	ш	20	08	1,600		
	Panel to DB-SS1 600V XLPE 3C+N 25 mm ²						
WB-0435	WB-0435 Ditto, but to DB-SS2 600V XLPE 3C+N 35 mm ²	ш	40	100	4,000		
WB-0436	WB-0436 Wiring for lighting system, consist of PVC wires of 4	L.S.	1		106,900		
	mm2, steel conduit 20 mm, conduit accessories, cable						
	connections, outlet boxes, mounting fittings and necessary					,	
	devices.						
WB-0437	WB-0437 Wiring for socket outlet system, consist of PVC	L.S.	1		53,800		
	wires of 4 mm2, steel conduit 20 mm, conduit accessories,						
	cable connections, outlet boxes, mounting fittings and						
	necessary devices.						
WB-0438	WB-0438 Grounding conductors for distribution board, lighting	L.S.	1		13,000		
	fixtures and socket outlets						
WB-0439	WB-0439 Ventilation, axial flow type supply fan, 600 mm	No.	1	700	700		
	dia. x 250 mm x 2.2kw, with 8 Nos. SAH-HS						
	750 x 200 34CMM						
WB-0440	WB-0440 Roof water down pipes, cast iron diam. 150 mm	ш	34	09	2,040		
WB-0441	WB-0441 Portable fire extinguishers	set	18	1,000	18,000		
WB-0442	WB-0442 Lightning Protection	L.S.	1		1,000		
WB-0400 Total	Total				1,284,331		

				Local Currency	urrency	Foreign Currency	Jurrency
Pay Item	Description	Unit	Quantity	Egyptian Pound	Pound	ı	•
				Unit Price	Amount	Unit Price Amount Unit Price	Amount
AB-0400	AB-0400 Administration (Building Works)						
AB-0401	AB-0401 Excavation and disposal for building	m3	1,135	2.25	2,554		
AB-0402	AB-0402 Backfill including supply of material	m3	1,053	3.25	3,422		
AB-0403	AB-0403 Lean concrete 75 mm thick.	m3	18	186	3,348		
AB-0404	AB-0404 Reinforced concrete (Fcu=275kg/cm2) for	m3	144	615	88,560		
	foundation and slab on grade, including						
	reinforcing deformed bars (Grade 36/52)						
	120kg/m3 and form works						
AB-0405	AB-0405 Reinforced concrete (Fcu=300kg/cm2) for grade	m3	234	764	178,776		
	beams, columns, walls beams and slabs,						
	including reinforcing deformed bars (Grade						
	36/52) 130kg/m3 and form works						
AB-0406	AB-0406 Cinder concrete, using light weight aggregates	m3	5.4	200	1,080		
AB-0407	AB-0407 Masonry brick wall works (cement bricks)	m3	235	200	47,000		
	including reinforced concrete lintel and bond						
	beams where necessary, t=240mm						
AB-0408	AB-0408 Masonry brick wall works (lime sand bricks)	m3	06	288	25,920		
	including reinforced concrete lintel and bond						
	beam where necessary, t=250mm						
AB-0409	AB-0409 Cement plastering, t=20mm	m2	1,960	14.0	27,440		
AB-0410	AB-0410 Steel ladders w/painting	kg	110	4.5	495		
AB-0411	AB-0411 Checkered plates, t=4.5mm	kg	286	4.5	4,442		

				Local Currency	ırrency	Foreign Currency	rency
Pay Item	Description	Unit	Quantity	Egyptian Pound	Pound		
				Unit Price	Amount	Unit Price A	Amount
AB-0412	AB-0412 Bituminous waterproofing membrane with insulation 500mm, covered with cement mortar 70 mm and cement tiles.	m2	625	30	18,750		
AB-0413	Paint on plastered walls, exterior	m2	413	16	909'9		
AB-0414		m2	1,133	16	18,128		
AB-0415	Paint on ceiling	m2	409	16	6,544		
AB-0416	AB-0416 Steel door, including painting	kg	200	3.8	2,660		
AB-0417	AB-0417 Steel door, with glazing, including painting	kg	300	3.8	1,140		
AB-0418	AB-0418 Aluminum window	m2	36	375	13,500		
AB-0419	AB-0419 Wooden door, including painting	m2	16	375	6,000		
AB- 0420	Mirror, W60cm x H 75cm	set	5	200	1,000		
		m2	256	20	5,120		
AB-0422	AB-0422 Ceramic floor tiles, 150 x 150 x 10 mm, including	m2	39	106	4,134		
	cement mortar screeding for adjustment						
AB-0423	AB-0423 Ceramic wall tiles, 200 x 200 x 6 mm and	m2	131	50	6,550		
	skirting (H=100)						
AB-0424	AB-0424 Terrazzo floor tiles, 250 x 250 x 25 mm and	m2	281	40	11,240	-	
	skirting (H=100) including cement mortar screeding for adjustment						
AB-0425	AB-0425 Suspended ceiling, acoustical types	m2	168	300	50,400		
AB-0426	AB-0426 Kitchen unit for pantry	LS	1		1,000		
AB-0427	AB-0427 Lighting fixture: Ceiling surface mounted type with metallic low brightness louver IP 51, for fluorescent lamp 32 watt -2 Type: A-FL322	set	20	250	5,000		
AB-0428	AB-0428 Lighting fixture: Ceiling surface mounted open type IP 51, for fluorescent lamp 32 watt -3 Type:B - FL321	set	15	250	3,750		
AB-0429	AB-0429 Ditto, but for fluorescent lamp 32 watt - 2 Type: B-FL322	set	35	150	5,250		

				Local Currency	ırrency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egyptian Pound	Pound		
				Unit Price	Amount	Unit Price	Amount
AB-0430	AB-0430 Lighting fixture: Pole top mounted type area lighting fixture IP65, for 125 watt sodium lamp Type: F-SON125	set	50	300	15,000		
AB-0431	Emergency lighting fixture: Ceiling or wall mounted open type IP 51, for incandescent lamp 100 watt powered by DC 100 V, Type: H-IL100	set	27	100	2,700		
AB-0432	AB-0432 Socket outlet: Wall surface flush mounted type AC Single Phase 220 V, 2-Pole with earth pole 15 amp double outlet	set	33	50	1,650		
AB-0433	Ditto, but 30 amp single outlet	set	4	120	480		
AB-0434	AB-0434 Socket outlet: Wall surface mounted type AC 3-Phase 380 V, 3-Pole with earth pole 30 amp single outlet	set	2	120	240		
AB-0435	AB-0435 Lighting switch: Wall surface flush mounted type, switch, AC 250 V, 10 amp	set	13	50	650		
AB-0436	AB-0436 Lighting switch, Wall surface flush mounted type, three way switch AC 250 V, 10 amp	set	2	100	200		
AB-0437	AB-0437 Distribution board: Wall surface mounted metallic cabinet type DB-SS3	set	1	200	500		
AB-0438	Exterior lighting control panel: Wall surface mounted metallic cabinet type ELC	set	1	500	500		
AB-0439	AB-0439 Lighting main feeder cable from Station Transformer Panel to DB-SS1 600V XLPE 3C+N 25 mm ²	ш	75	80	6,000		
AB-0440	AB-0440 Wiring for lighting system, consist of PVC wires of 4 mm2, steel conduit 20 mm, conduit accessories, cable connections, outlet boxes, mounting fittings and necessary	LS	1		25,900		
AB-0441	AB-0441 Wiring for socket outlet system, consist of PVC wires of 4 mm2, steel conduit 20 mm, conduit accessories, cable connections, outlet boxes, mounting fittings and necessary devices.	LS			25,900		

				Local Currency	ırrency	Foreign Currency	ncy
Pay Item	Description	Unit	Quantity	Egyptian Pound			
				Unit Price	Amount	Unit Price Amount	unt
AB- 0442	AB-0442 Wiring for exterior lighting system, consist of 600 V XLPE 4c-16 mm2, 3C-16 mm2 or 2C-8 mm2 in plastic conduit 30 mm	LS	1		56,700		
AB-0443	AB-0443 Grounding conductors for distribution board, lighting fixtures and socket outlets	LS	1		5,800		
AB-0444	AB-0444 Ventilation, wall mounted exhaust fan, 250 mm dia. x 18CMM x 25W	No.	2	200	1,000		
AB-0445	AB-0445 Ventilation, wall mounted exhaust fan, 300 mm dia. x 28CMM x 50W	No.	1	009	009		
AB- 0446	AB-0446 Ventilation, wall mounted exhaust fan, 400 mm dia. x 82CMM x 0.4KW	No.	1	700	700		
AB-0447	AB-0447 Ventilation, O.A. (outside air) supply fan, 550 mm dia. x 185 CMM x 2.5KW with SAR 750 x 200 34CMM (6 Nos.)	No.	1	700	700		
AB-0448	AB-0448 Air conditioners, split type, wall mounted, cooling cap. 4KW	No.	3	6,000	18,000		
AB-0449	AB-0449 Air conditioners, split type, ceiling suspended, cooling cap.12KW	No.	2	15,000	30,000		
AB-0450	Air conditioners, split type, cooling cap.10KW	No.	. 1	12,000	12,000	:	
AB-0451		m .	18	09	1,080		
AB-0452 AB-0453	AB-0452 Water closet, including flush valves AB-0453 Wall urinals, including flush valves	set	4 ε	150	1,600		
AB-0454	AB-0454 Lavatories	set	5	300	1,500		
AB-0455	Service sink	set	1	250	250		
AB-0456	AB-0456 Floor drains 50 mm dia. Including trap as specified and dfined on the drawing.	set	6	100	006		

				Local Currency	urrency	Foreign Currency	urrency
Pay Item	Description	Unit	Quantity	Egyptian Pound	η Pound		
				Unit Price	Amount	Unit Price Amount Unit Price Amount	Amount
AB-0457	AB-0457 Water supply system including piping works,	TS	1		20,000		
	elevated water tank, isolation valves and all						
	fittings necessary to complete the works as						
	specified and defined on the drawing.						
AB-0458	AB-0458 Drainage system including piping works, septic	LS	1		50,000		
	tank, evaporation pit, manholes and all fittings						
	necessary to complete the works as specified and	-					
	defined on the drawing.						
AB-0459	AB-0459 Portable fire extinguishers	set	10	1,000	10,000		
AB-0460	AB-0460 Lightning Protection	LS	1		1,000		
AB-0400 Total	Total				841,811		

(Package-4)

Ser. No.	Description	Unit	Unit Price Egyptian Pound	Remarks
1	Excavation (1), above embankment	m ³	2.25	above bank level
2	Excavation (2), below embankment	m ³		below bank level
3	Fill (1), for canal	m ³	·	backfilling
4	Fill (2), for embankment	m ³	•	embankment
5	Trimming of Side Slopes of	m ³	3.00	
3	Concrete Lined Canal	m	3.00	
6	Fill with Laterite and Laterite Bedding	m ³	25	
7	Laterite Pavement of 0.2m thick on Berms, etc.	m ²	5	
8	Stone Pitching with Mortar Caulking	m ³	90	
9	Crushed Gravel Bedding	m ³	35	
10	Mortar Lining of 10cm thick	$\frac{m}{m^2}$	15	
11	Polyethylene Sheet (1.5mm thick)	$\frac{m}{m^2}$	20	
12	Concrete Lining (0.25m thick)	$\frac{m}{m^2}$	58	
13	Concrete Lining (0.20m thick)	$\frac{m}{m^2}$	48	ļ
			7,500	ļ
14 15	Leakage Test Reinforced Concrete (1)	No.	607	
13	ck=275kgf/cm2, 80kg/m3	m	007	
16	Reinforced Concrete (2)	m ³	611	
	ck=275kgf/cm2, 100kg/m3	***		
17	Fino Concrete, 275kgf/cm2	m ³	216	
18	Plain Concrete, 180kgf/cm2	m ³	186	
19	Bitumen Coating	m ²	4	
20	Ladder Rung & Miscellaneous Steel	ton	4,500	
21	Additional Reinforcement		Í	
	(Steel Bar No. 52)	ton	2,300	
22	Laterite Paved Road (0.25m thick Laterite Pavement)	m ²	6	
23	Surface Course of Asphalt Paved Road (Asphalt Concrete of 5cm thick)	m ²	9	
24	Prime Coat	m ²	1	
25	Upper Subgrade (Macadam Layer of 0.30m)	m ²	10	
26	Lower Subgrade (0.25m thick Laterite Pavement)	m ²	6	
27	Kilometer Sign	No.	250	
28	Excavation of Pits for Planting Trees	Km	300	
29	Supply of Clayey Soil for Pits	Km	2,500	
30	Plantation of Gasuarina Trees	Km	500	
31	Plantation of Acacia Trees	Km	500	
32	Care of Trees	Km	2,500	

(Package-4)

Ser. No.	Description	Unit	Unit Price Egyptian Pound	Remarks
33	Drip Irrigation Systems	Km	4,000	
34	Marble Staff Gauge	m	125	i
35	Water Stop (w=0.20m)	m	57	
36	Expansion Joint	m ²	165	
37	Contraction Joint	m ²	83	
38	Handrail (H=1.10m)	m	250	16.99 kg/m
39	Kilometer Post	No.	1,081	
40	Riprap	m ³	60	
41	Dowel Bars (φ 19, L=1.0m)	No.	8	ļ.
42	Net Wire Fence H=1.5m	m ²	20	
43	Stone Pitching without Mortar	m ³	60	
44	Caulking Excavation (3); (with Dewatering)	m ³	33	
45	Backfill (2); (with Dewatering)	m ³	42	
46	Reinforced Concrete (1); (with Dewatering), 80 kg/m3	m ³	743	
47	Reinforced Concrete (2); (with Dewatering), 100 kg/m3	m ³	747	
48	Reinforced concrete (3) (Fcu=300kgf/cm2), 170 kg/m3	m ³	772	Building Works
49	Handrail (H=0.90m)	m	258	17.55 kg/m
50	Green Belt (Width 50m of Planting Trees)	m	290	<u> </u>
51	Secondary Concrete, ck=275kgf/cm2, 10 kg/m3	m ³	218	
52	Brick Wall t=0.24m	m ³	200	
53	Mortar Steel Trowel	$\frac{m}{m^2}$	14	
54	Non Slip Tile Facing	m	57	
55	Drain Pit with Gravel Filter and PVC ϕ 100	No.	17	
56	Stripping	m3	1.5	
57	Laterite and Crushed Gravel Pavement including trimming	m2	12	
58	Reinforced concrete (2) (Fcu=275kgf/cm2), 120 kg/m3	m ³	615	Building Works
59	Reinforced concrete (3) (Fcu=300kgf/cm2), 130 kg/m3	m ³	764	Building Works
60	Final Grading	m2	1	
61	Cement Plastering	m2	14	
62	Paint	m2	16	

Unit Price of Reinforced Concrete and Plain Concrete

															-						unit price	5 727	5 731
																						136	136
unit price			575	200	2.1	2.3	603	746	563	263	738	287	583	170		282	109		591	565		169	265
unit			m3	m3	kg	kg	m3	m3	m3	m3	m3	m3	m3	m3		m3	m3		m3	m3		m3	m3
R.W.	(kg/m3)		140	230			140	230	120	100	160	120	100	160		20	130		80	100		80	100
Steel No.			37	37			52	52	37	37	37	52	52	52		52	52		52	52		52	52
Ck	(kgf/cm2)		275	275			275	275	300	300	300	300	300	300		275	275		275	275		275	275
Description		Portland Cement Type I	NSDO Reiforced Concrete	NSDO Reiforced Concrete	Steel Bar No.37	Steel Bar No.52	Reinforced Concrete	Reinforced Concrete	MED Reiforced Concrete	MED Reiforced Concrete	MED Reiforced Concrete	Reinforced Concrete, bundle	Reinforced Concrete under floors level	Reinforced Concrete over floors level	Package-1 & 3	Reiforced Concrete (1)	Reiforced Concrete (2)	Package-2	Reiforced Concrete (1)	Reiforced Concrete (2)		Reiforced Concrete (1) with dewatering	Reiforced Concrete (2) with dewatering
No.				1		- ([]						

Zo.	Description	Č	Steel No.	R.W.	unit	unit price		
		(kgf/cm2)		(kg/m3)		1		
	Secondary Concrete	275	52	10	m3	202		
	Building Works							
	Reiforced Concrete (3)	300	Grade 36/52	170	m3	772		
	Package-4							
	Building Works							
	Reinforced Concrete (2)	275	Grade 36/52	120	m3	599		
	Reinforced Concrete (3)	300	Grade 36/52	130	m3	764		
	Plain Concrete	180			m3	175		
	Plain Concrete (Building Works)	200			m3	190		
	Fino Concrete	275			m3	200		
	Concrete Lining, t=25 cm	225			m2	25	m3	220
	Concrete Lining, t=20 cm	225			m2	45	m3	225
	Concrete Lining, t=10cm	275			m2	17	m3	170

unit price	0.220	0.265	0.045
unit	kg	kg	kg
	Portland Cement Type I	Portland Cement Type V	Balance

Unit Price Unit Price	Cement unit price Type-I Type-V	kg 350 0.045 16 585 601	kg 350 0.045 16 601 617	16 771 955
Use of Portland Cement Type V	Package-1 & 3	Reiforced Concrete (1) kg	Reiforced Concrete (2) kg	Reiforced Concrete (2) for Box Culvert

	Package-2	•					
	Reiforced Concrete (1)	kg	350	0.045	16	591	209
	Reiforced Concrete (2)	kg	350	0.045	16	262	611
	Reiforced Concrete (1) with dewatering	kg	350	0.045	16	727	743
	Reiforced Concrete (2) with dewatering	kg	350	0.045	16	731	747
	Building Works						
	Reiforced Concrete (3)					772	ı
	Secondary Concrete	kg	350	0.045	16	202	218
	Package-4						
	Building Works						
	Reinforced Concrete (1)	kg	320	0.045	16	599	615
ī	Reinforced Concrete (2)		_			764	•

19	17	1.6	0.045	350	kg	Concrete Lining, t=10cm
48	45	2.7	0.045	300	kg	Concrete Lining, t=20 cm
28	55	3.4	0.045	300	kg	Concrete Lining, t=25 cm
216	200	16	0.045	320	kg	Fino Concrete
186	175	11	0.045	250	kg	Plain Concrete

Case-1 Concrete (ck=240kgf/m2) m3 1 Reiforced Bar kg 130 Steel Form m2 2.0 Box Culvert m3 1 Form m3 1 Form kg 130 Case-2 Concrete (ck=240kgf/m2) m3 1 Reiforced Bar kg 130 Steel Form m2 2.0 Steel Form m3 1 Lase-3 Concrete (ck=240kgf/m2) m3 1 Lase-3 Concrete (ck=240kgf/m2) m3 1 Steel Form m2 2.0 Steel Form m3 1 Lase-3-2 Concrete (ck=300kgf/m2) m3 1 Susc Bridge Reiforced Bar kg 130 Susc Bridge Reiforced Bar m3 1 Sastfording m3 2.1 Supporting m3 2.1	Quotation	Q'ty	unit price	Price	Overhead	
240kgf/m2) m3 kg m2 m3 240kgf/m2) m3 kg m3 m3 m3 m3 m2 m2 m2 m2 m2 m2 m2 m2 m3	Box				1.20	617
240kgf/m2) m3 240kgf/m2) m3 240kgf/m2) m3 240kgf/m2) m3 m2 m2 m2 m2 m3	Concrete (ck=240kgf/m2)	m3	1 341	341		19,053
240kgf/m2) m3 kg m3 kg m2 m3	Reiforced Bar		0 1.72	727		
240kgf/m2) m3 240kgf/m2) m3 240kgf/m2) m3 800kgf/m2) m3 m2 m2 m2 m3 m3 m3 m3 m3 m3			65 0	118		
240kgf/m2) m3 kg m2 240kgf/m2) m3 kg m2 m2 m2 m2 m2 m3 m3 m3 m3 m3 m3 m3 m3				683	819	25,298
240kgf/m2) m3 kg m2 240kgf/m2) m3 kg m2 m2 m2 m2 m2 m2 m3						
240kgf/m2) m3 kg 1 m2	Box Culvert	9.08	4 54.76	25.88	m3/m	
240kgf/m2) m3 kg m2 m2 m3 kg m3 m3 m3 m2 m2 m3				51.8	51.8 m2/m	
240kgf/m2) m3 240kgf/m2) m3 m2 m2 m2 m3 m3 m3 m3 m3 m3	Form			2.0	2.0 m2/m3	
240kgf/m2) m3 kg 1 m2 m2 m3 m3 m3 m3 m3 m3 m3 m3 m2 m3						
Reiforced Bar kg	Concrete (ck=240kgf/m2)	m3	1 270	270		
240kgf/m2) m3 kg m2 m3 m3 m3 m3 m2 m2 m2 m2 m2 m2 m2 m2 m2 m3	Reiforced Bar		0 1.65	215		
240kgf/m2) m3 kg m2 m2 m2 m3 m3 m3 m2 m2 m2 m3 m3 m3 m3 m3	Steel Form			118		
240kgf/m2) m3 kg m2 m2 m2 m3 m3 m3 m3 m2 m2 m2 m2 m3 m3				603	723	22,326
240kgf/m2) m3 kg m2 m2 m3 300kgf/m2) m3 m2 m2 m2 m2 m3 m3						
240kgf/m2) m3 kg m2 m2 m2 m2 m2 m3 m3 m3 m3 m3 m3 m3 m3 m3				Average	771	23,812
240kgf/m2) m3 kg m2 m2 m3 300kgf/m2) m3 kg m2 m2 m2 m3 m3 m3						
300kgf/m2) m3 kg m2 m2 m2 m2 m2 m3	Concrete (ck=240kgf/m2)	m3	$1 \qquad 166$		1996	
300kgf/m2) m3 kg m2 m2 m2 m2 m2 m3 m3 m3	e Reiforced Bar		0 2.1	273		1.25 Price escalation
300kgf/m2) m3 kg m2 m2 m2 m3 m3 m3	5 Steel Form	m2	2 38	9/		
300kgf/m2) m3 kg m2 m2 m2 m2 m2 m3				515		
300kgf/m2) m3 kg m2 m2 m2 m2 m3 m3					773	
kg m2 m2 m3	Concrete (ck=300kgf/m2)	m3	1 169	169		
m2 m3 m3	e Reiforced Bar		0 2.1	273		
m3 m3	5 Steel Form	m2	2 38	9/		
m2 m3				518	622	
s m2 m3					8//	
m3 m3				Average	774	23,901
m3	Scaffording	-	3 885.5	266	997	
	Supporting		1 10.45	22	22	
					1,062	
Unit Price of Reinforced Concrete for Box Culvert		vert		%06	955	29,503

T-1 Temporary Works (Dewatering for Pumping Station)

30.88 3.42 105.60	Remarks				month	300,000	2,500,000	7,500		21,182,000	months		2 months		¥62,156,000			140 kg/m3	0 kg/m3	100 kg/m3				
rate 1US\$ 1US\$		Total	7,000	401,000	T	30,000	81,000	54,000		000'989	1,080,000 9 months	7,000	240,000 2	247,000	2,013,000 ¥		905,200	1		4,922,077	325,100	7,017,940		
	Amount	Foreign Currency																	743	747				
		Local Currency			120,000	30,000	81,000	54,000			1,080,000		240,000		(A+B+C)				16	16				
		Total			4,000	10,000		80			4,000		4,000		TOTAL		33		727	731	42			
	Unit Price	Foreign Currency														Dewatering	25	136	136	136	32			
		Local Currency			4,000	10,000		08			4,000		4,000			Civil Works	8		591	595	10			
mping Station	Quantities	<u> </u>	1	1	30	3	1	029	-		270		09				27,400	7,920	1,190	6,730	7,810			
ring for Pu	Unit		T.S	F.S	day	unit	T.S	ш			day		day				m3	m3	m3	m3	m3			
Temporary Works (Dewatering for Pumping Station)	Description		Mobilaization	Deep Well Insatalation	Pump Operation	Distribution Panel	Cable	Header Pipe (D=350mm)		Sub-Total	Pump Operation	Demobilization	Pump Operation	Sub-Total			Excavation (3)	PC-0328,9 Reiforced Concrete	PC-0327 Reiforced Concrete (1)	Reiforced Concrete (2)	Backfill (2)			
T-1	Ser.		A1	A2	A3	44	A5	A6			B1	CI					PC-0303	PC-0328,9	PC-0327	PC-0328	PC-0306			

T-1-1 Deep Well Installation

Remarks					2			20	15		1 ¥12,393,000										
	Total	Loral			258,552		110,808	21,546	10,465		401,371	401,000									
Amount	Foreign	Currency																			
A		Currency			258,552		110,808		10,465												
	Total	Total			616		7,387	1,436	869												
Unit Price	Foreign	Currency																			
	Local	Currency			616		7,387	1,436	869	5											
Quantities					420		15	15	15												
Unit			s=15		ш		hole	hole	hole												
Description			D=350mm, Depth=28.0m, Nos=15	Q=0.828 cum/min	Well Drilling (15 wells)	Installation of Casing and	Screen	Gravel-packing	Grout-sealing		Total									Art and a second	
Ser.																					

VIII - 70

Remarks			3,000 15 wells	900 3 sets												
Amount	Total	100	3,000	006	000	4,000										
	Foreign Currency															
	Local Currency	100	3,000	006												
	Total	50	200	300												
Unit Price	Foreign Currency															
	Local Currency	50	200	300												
Quantities	,,,,	2	15	3												
Unit		person	day	day												
Description		Skilled Labor	Pump Operation	Generator (150 kva)	- T E	I Otal										
Ser.																

(day)

T-1-2 Pump Operation

Breakdown of Steel Pipe Unit Price

per 12 m	
Local Currency	

Item	unit	Q'ty	unit cost	unit cost	Foreign Currency	Local Currency		
			US\$	LE	US\$	LE		
Material Cost	ton	15.732	695	-	10,934		40%	
Fablication Cost	ton	15.732	310			16,679	18%	
External coating	m2	92	35			11,012	12%	
Sub Total					10,934	27,691		
Freight cost					0			
Inland Transportation	ton	15.732	19	65		1,022	1%	
Installation Cost	LS	1	1,557	5,325		5,325	6%	
Mortar lining	m2	90.5	60			18,571	20%	
X-ray cost		12	58	198		2,380	3%	
Sub Total					0	27,298	1000	
Total			,		10,934		100% 92,383	
per linear meter					911	4,582	7,699 40%	LE/m 60%
Double Bend	pc	6	12,360	42,270			1070	00,0
Installation	pc	6		5,324		31,944		
Test	pc	6		400		2,400		
Sub Total					30,017	185,308		
Single Bend	рс	84	10,179	34,812		1,740,591		
Installation	рc	84		5,324		447,216		
Test	рс	84		440		36,960		
Sub Total					346,087	2,224,767		
Total of Bend					376,103	2,410,075		
	m	27,685.8	911	4,582	25,225,778	126,869,237	_	
Pipe + Bend Total					25,601,882		I E /	
	-	05.05=			Adopted U		LE/m	
per linear meter	m	27,867			919 40%		7,781	

Exchange Rate as of April 3, 2000

1 US\$ 105.60 Yen

3.42 LE

1 LE 30.88 Yen