

**ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
RESERVOIR AND GRAND BARRAGES SECTOR**

**THE ARAB REPUBLIC OF EGYPT
THE PROJECT FOR CONSTRUCTION OF
THE NEW DIROUT GROUP OF REGULATORS
DETAILED DESIGN STUDY**

FINAL REPORT

Appendix (2/3)

May, 2017

JAPAN INTERNATIONAL COOPERATION AGENCY

SANYU CONSULTANTS INC.

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APPENDIX E-1

Calculation of Exchange Rate

E-2

YEN—US\$ (TTS)

Date	February 2017	March 2017	April 2017
1	114.08	114.17	
2	114.07	115.00	
3	113.98	115.23	112.27
4			111.60
5			111.77
6	113.37	114.78	111.56
7	112.75	114.98	111.93
8	113.45	114.91	
9	113.06	115.60	
10	114.74	116.22	112.43
11			111.83
12			110.58
13	114.96	115.82	109.83
14	114.69	115.86	110.22
15	115.50	115.83	
16	115.11	114.28	
17	114.47	114.48	109.29
18			110.19
19			109.56
20	113.88		
21	114.43	113.40	
22	114.66	112.72	
23	114.37	112.48	
24	113.86	112.35	
25			
26			
27	113.18	111.44	
28	113.56	111.77	
29		112.05	
30		112.37	
31		113.19	
total	2,282.17	2,508.93	1,443.06
nos	20	22	13
Avg.	114.10	114.04	111.00
monthly Avg.	113.34		

Exchange rate (YEN—US\$)
1US\$ = **113.34** (YEN)

source: YEN—US\$ TTS
Bank of Tokyo-Mitsubishi UFJ
<http://www.bk.mufg.jp/index.html>

YEN—€ (TTS)

Date	February 2017	March 2017	April 2017
1	123.51	121.03	
2	123.37	121.63	
3	123.06	121.60	120.28
4			119.48
5			119.79
6	122.58	122.25	119.53
7	121.36	122.03	119.55
8	121.55	121.89	
9	121.25	122.24	
10	122.71	123.47	119.38
11			118.88
12			117.73
13	122.56	124.17	117.59
14	121.98	123.86	117.44
15	122.52	123.42	
16	122.66	123.14	
17	122.50	123.65	116.47
18			117.70
19			117.92
20	121.31		
21	121.60	122.53	
22	121.37	122.16	
23	121.07	121.75	
24	120.82	121.31	
25			
26			
27	120.03	121.26	
28	120.48	121.80	
29		121.62	
30		121.18	
31		121.29	
total	2,438.29	2,689.28	1,541.74
nos	20	22	13
Avg.	121.91	122.24	118.59
monthly Avg.	121.26		

Exchange rate (YEN—€)
1€ = **121.26** (YEN)

1€ = 121.26 / 113.34
= **1.07** (USD)

source: YEN—€ TTS
Bank of Tokyo-Mitsubishi UFJ
<http://www.bk.mufg.jp/index.html>

LE—US\$ (TTB)

Date	February 2017	March 2017	April 2017
1	18.7537	15.9250	
2	18.6168	16.1986	18.0772
3			18.0546
4			17.9943
5	18.3560	16.3284	17.9576
6	18.3419	16.5964	17.9686
7	18.2765	17.3314	
8	18.0859	17.6292	
9	17.8673	17.6578	17.9714
10			17.9789
11			18.0084
12	17.5232	17.6338	18.0216
13	17.2241	17.6732	18.0297
14	16.4986	17.9232	
15	16.3835	18.1030	
16	16.0851	18.0782	
17			
18			18.0262
19	15.7346	18.0754	18.0324
20	15.7181	18.0781	
21	15.7357	18.0770	
22	15.7224	18.0792	
23	15.7527	18.0773	
24			
25			
26	15.7484	18.0724	
27	15.7573	18.0735	
28	15.7586	18.0749	
29		18.0734	
30		18.0778	
31			
total	337.94	387.84	216.12
nos	20	22	12
Avg.	16.89	17.62	18.01
monthly Avg.	17.44		

Exchange rate (YEN—LE)
1LE = 113.34 / 17.44

= **6.49** (YEN)

source: LE—US\$ TTB
CENTRAL BANK OF EGYPT
<http://www.cbe.org.eg/ar/Pages/default.aspx>

APPENDIX E-2

Calculation of Price Escalation

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E-2-1. Calculation of the Price escalation (stable price increase)

1. Foreign Currency

1.6%

 /year

source : JICA

2. Local currency

	PPI ※	fluctuation rate	CPI ※	fluctuation rate
2012	117.52	3.1%	117.69	8.7%
2013	121.22	4.0%	127.98	8.7%
2014	126.04	-2.7%	139.08	8.6%
2015	122.58	3.6%	150.99	9.4%
2016	126.97		165.20	

※ Producer Price Index

※ Consumer Price Index

Average	2.0%	8.8%
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Average of Inflation rate = **5.4%**

	Annual average of exchange rate (LE / USD(\$))	fluctuation rate	Annual average of exchange rate (LE / EURO(€))	fluctuation rate	Annual average of exchange rate (LE / YEN)	fluctuation rate	Annual average of exchange rate (LE / GBP(£))	fluctuation rate	Annual average of exchange rate (LE / CAD(\$))	fluctuation rate
2012	6.0383	13.7%	7.7583	17.5%	0.0757	-7.1%	9.5384	12.5%	6.0432	10.3%
2013	6.8633	3.0%	9.1127	2.9%	0.0703	-5.1%	10.7296	8.4%	6.6647	-4.1%
2014	7.0707	8.5%	9.3810	-9.3%	0.0667	-5.0%	11.6347	0.8%	6.3925	-6.1%
2015	7.6748	11.6%	8.5119	11.3%	0.0634	24.1%	11.7254	-1.4%	6.0002	7.7%
2016	8.5625		9.4714		0.0787		11.5610		6.4603	
Average	9.1%	5.1%	1.0%	4.9%	1.7%					

Average of Fluctuation of exchange rate = **4.4%**

$$\begin{aligned}
 \text{Price escalation rate of LE} &= \text{Average of Inflation rate} - \text{Average of Fluctuation of exchange rate} \\
 &= 5.4\% - 4.4\% \\
 &= \boxed{1.0}\% \text{ /year}
 \end{aligned}$$

source : data base of International Monetary Fund
 Ministry of Finance in Egypt
 Central Bank of Egypt

	2010	2011	2012	2013	2014	2015	2016	
Canada	100.00	106.94	108.12	108.56	111.26	110.32	110.08	Average
Egypt	100.00	114.85	117.52	121.22	126.04	122.58	126.97	
Euro Area	100.00	105.73	108.71	108.48	106.82	103.94	101.55	
Japan	100.00	101.47	100.58	101.85	105.12	102.74	99.26	
United Kingdom	100.00	104.80	107.00	108.40	108.40	106.60	107.00	
United States	100.00	108.83	109.43	110.11	111.14	103.09	100.37	

	2010	2011	2012	2013	2014	2015	2016	
Canada	100.00	102.91	104.47	105.45	107.46	108.67	110.22	Average
Egypt	100.00	110.23	117.69	127.98	139.08	150.99	165.20	
Japan	100.00	99.73	99.68	100.03	102.79	103.60	103.48	
United Kingdom	100.00	104.48	107.43	110.18	111.79	111.84	112.56	
United States	100.00	103.16	105.29	106.83	108.57	108.70	110.07	

	2010	2011	2012	2013	2014	2015	2016	
Canada	1.03016	0.98953	0.99919	1.02980	1.10610	1.27910	1.32540	Average
Egypt	5.62	5.93421	6.03827	6.86331	7.07073	7.67483	8.56250	
Euro Area	0.75504	0.71936	0.77829	0.75316	0.75373	0.90166	0.90404	
Japan	87.77988	79.80702	79.79046	97.59566	105.94478	121.04403	108.79290	
United Kingdom	0.64718	0.62414	0.63305	0.63966	0.60773	0.65455	0.74063	
United States	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	

National
Currency, per
US\$ Period
Average

Comparison Table for economic data between IMF, CBE and MOF

IMF: International Monetary Fund, CBE: Central Bank of Egypt, MOF: ministry of Finance (in Egypt)

- Producer Price Index (PPI)

2010	PPI			2011	PPI			2012	PPI			2013	PPI			2014	PPI			2015	PPI			2016	PPI		
	IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF
Jan-2010	93.90		12.9	Jan-2011	107.63		14.7	Jan-2012	115.64		7.4	Jan-2013	115.16		-0.5	Jan-2014	125.16		8.7	Jan-2015	118.47		-5.3	Jan-2016			0.5
Feb-2010	93.35		13.1	Feb-2011	109.07		16.8	Feb-2012	118.65		8.8	Feb-2013	117.69		-0.8	Feb-2014	124.97		6.2	Feb-2015	121.60		-2.7	Feb-2016			-1.3
Mar-2010	94.86		13.7	Mar-2011	114.25		20.4	Mar-2012	120.34		5.4	Mar-2013	116.78		-3.0	Mar-2014	125.58		7.6	Mar-2015	121.54		-3.3	Mar-2016			0.6
Apr-2010	98.47		15.9	Apr-2011	118.77		20.5	Apr-2012	122.08		2.9	Apr-2013	120.04		-1.7	Apr-2014	126.78		5.6	Apr-2015	124.19		-2.4	Apr-2016			1.1
May-2010	96.73		9.9	May-2011	116.12		20.1	May-2012	119.37		2.8	May-2013	118.95		-0.4	May-2014	126.54		6.4	May-2015	126.18		-0.3	May-2016			1.5
Jun-2010	96.55		8.6	Jun-2011	115.70		19.4	Jun-2012	111.42		-3.7	Jun-2013	120.76		8.4	Jun-2014	125.88		4.3	Jun-2015	123.11		-2.3	Jun-2016			5.7
Jul-2010	98.84		10.3	Jul-2011	115.88		17.3	Jul-2012	113.47		-2.1	Jul-2013	123.53		8.9	Jul-2014	130.52		5.7	Jul-2015	121.84		-6.6	Jul-2016			7.2
Aug-2010	101.49		10.3	Aug-2011	115.70		14.0	Aug-2012	118.29		2.3	Aug-2013	124.01		4.8	Aug-2014	129.61		4.4	Aug-2015	121.00		-6.6	Aug-2016			11.2
Sep-2010	104.74		14.1	Sep-2011	117.02		11.8	Sep-2012	122.32		4.5	Sep-2013	124.31		1.6	Sep-2014	129.43		4.0	Sep-2015	124.31		-3.9	Sep-2016			9.2
Oct-2010	108.89		16.9	Oct-2011	115.40		6.0	Oct-2012	119.98		4.0	Oct-2013	126.06		5.1	Oct-2014	129.49		2.7	Oct-2015	127.20		-2.0	Oct-2016			11.9
Nov-2010	106.85		13.5	Nov-2011	116.54		9.1	Nov-2012	114.74		-1.6	Nov-2013	125.88		9.8	Nov-2014	126.30		0.3	Nov-2015			-1.9	Nov-2016			
Dec-2010	105.34		11.2	Dec-2011	114.98		9.2	Dec-2012	114.62		-0.4	Dec-2013	125.10		9.1	Dec-2014	121.06		-3.2	Dec-2015			0.2	Dec-2016			
Av.	100.00		100.0	Av.	114.76		114.94	Av.	117.58		117.47	Av.	121.52		120.91	Av.	126.78		125.30	Av.	122.95		122.21	Av.			126.97
increment				increment	14.76		14.94	increment	2.82		2.53	increment	3.94		3.44	increment	5.25		4.39	increment	-3.83		-3.09	increment			4.76

- Consumer Price Index (CPI)

2010	CPI			2011	CPI			2012	CPI			2013	CPI			2014	CPI			2015	CPI			2016	CPI		
	IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF
Jan-2010	95.15	13.633	13.6	Jan-2011	105.42	10.790	11.0	Jan-2012	114.46	8.602	9.2	Jan-2013	121.67	6.274	6.6	Jan-2014	135.49	11.362	12.2	Jan-2015	148.57	9.658	9.4	Jan-2016	163.56	10.098	10.7
Feb-2010	95.34	12.777	12.5	Feb-2011	105.52	10.710	10.8	Feb-2012	115.22	9.188	9.9	Feb-2013	124.70	8.210	8.7	Feb-2014	136.88	9.765	10.2	Feb-2015	151.33	10.561	10.7	Feb-2016	165.18	9.131	9.5
Mar-2010	96.00	12.201	11.8	Mar-2011	106.95	11.486	11.8	Mar-2012	116.65	9.027	9.5	Mar-2013	125.50	7.589	8.2	Mar-2014	137.82	9.816	10.2	Mar-2015	153.67	11.506	11.8	Mar-2016	167.55	9.015	9.2
Apr-2010	96.57	11.382	11.0	Apr-2011	108.28	12.077	12.4	Apr-2012	117.79	8.778	9.3	Apr-2013	127.35	8.112	8.8	Apr-2014	138.64	8.871	9.1	Apr-2015	153.85	10.964	11.0	Apr-2016	169.65	10.274	10.9
May-2010	97.05	10.598	9.9	May-2011	108.47	11.799	12.2	May-2012	117.51	8.300	8.6	May-2013	127.15	8.198	9.0	May-2014	137.62	8.242	8.3	May-2015	155.66	13.113	13.5	May-2016	174.82	12.300	12.9
Jun-2010	97.43	10.661	10.2	Jun-2011	108.94	11.792	12.1	Jun-2012	116.84	7.255	7.4	Jun-2013	128.26	9.753	10.9	Jun-2014	138.78	8.200	8.2	Jun-2015	154.61	11.388	11.5	Jun-2016	176.21	13.969	14.8
Jul-2010	99.90	10.718	10.3	Jul-2011	110.28	10.364	10.7	Jul-2012	117.32	6.392	6.3	Jul-2013	129.40	10.279	11.5	Jul-2014	143.65	11.042	11.1	Jul-2015	155.66	8.377	8.3	Jul-2016	177.45	13.999	14.8
Aug-2010	102.76	10.931	11.5	Aug-2011	111.51	8.486	8.8	Aug-2012	118.65	6.465	6.3	Aug-2013	129.37	9.745	10.9	Aug-2014	145.22	11.494	11.4	Aug-2015	156.71	7.880	7.9	Aug-2016	180.88	15.469	16.4
Sep-2010	104.47	10.966	11.7	Sep-2011	113.04	8.213	8.5	Sep-2012	120.08	6.220	6.3	Sep-2013	132.29	10.145	11.1	Sep-2014	147.00	11.119	11.1	Sep-2015	160.54	9.210	9.4	Sep-2016	183.16	14.088	14.6
Oct-2010	105.90	11.016	11.4	Oct-2011	113.42	7.104	7.5	Oct-2012	121.03	6.701	7.0	Oct-2013	133.70	10.445	11.5	Oct-2014	149.52	11.836	11.5	Oct-2015	164.03	9.701	10.3	Oct-2016	186.30	13.563	14.0
Nov-2010	105.04	10.187	10.2	Nov-2011	114.56	9.068	10.0	Nov-2012	119.51	4.255	4.1	Nov-2013	134.97	12.972	14.2	Nov-2014	147.23	9.087	8.5	Nov-2015	163.56	11.079	11.8	Nov-2016			
Dec-2010	104.38	10.281	10.3	Dec-2011	114.27	9.550	10.4	Dec-2012	119.60	4.663	4.7	Dec-2013	133.59	11.656	12.5	Dec-2014	147.12	10.128	9.8	Dec-2015	163.37	11.061	11.9	Dec-2016			
Av.	100.00	100.00	100.0	Av.	110.05	110.12	110.52	Av.	117.89	117.27	117.90	Av.	128.99	126.72	128.23	Av.	142.08	136.80	138.36	Av.	156.80	147.18	148.98	Av.	174.48	159.37	161.76
increment				increment	10.05	10.120	10.52	increment	7.83	7.154	7.38	increment	11.11	9.448	10.33	increment	13.09	10.080	10.13	increment	14.72	10.375	10.63	increment	17.68	12.191	12.78

- National Currency, per US\$ Period Average

2010	LE/US\$			2011	LE/US\$			2012	LE/US\$			2013	LE/US\$			2014	LE/US\$			2015	LE/US\$			2016	LE/US\$		
	IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF		IMF	CBE	MOF
Jan-2010	5.44	5.4387		Jan-2011	5.80	5.7992		Jan-2012	6.02	5.5022		Jan-2013	6.55	6.5577		Jan-2014	6.94	6.9414		Jan-2015	7.26			Jan-2016	7.81	7.7201	
Feb-2010	5.47	5.4739		Feb-2011	5.88	5.8865		Feb-2012	6.02	6.0245		Feb-2013	6.71	6.7043		Feb-2014	6.96	6.9413		Feb-2015	7.60	7.5201		Feb-2016	7.81	7.7201	
Mar-2010	5.48	5.4773		Mar-2011	5.92	5.9182		Mar-2012	6.02	6.0242		Mar-2013	6.77	6.7593		Mar-2014	6.96	6.9414		Mar-2015	7.60	7.5208		Mar-2016	8.45	8.3500	
Apr-2010	5.51	5.5156		Apr-2011	5.95	5.9484		Apr-2012	6.03	6.0786		Apr-2013	6.86	6.8588		Apr-2014	6.98	6.9636		Apr-2015	7.60	7.5206		Apr-2016	8.86	8.7700	
May-2010	5.60	5.6075		May-2011	5.93	5.9368		May-2012	6.03	6.0313		May-2013	6.96	6.9504		May-2014	7.08	7.0678		May-2015	7.61			May-2016	8.86	8.7700	
Jun-2010	5.66	5.6673		Jun-2011	5.94	5.9394		Jun-2012	6.03	6.0364		Jun-2013	6.99	6.9777		Jun-2014	7.14	7.1302		Jun-2015	7.61	7.5201		Jun-2016	8.86	8.7700	
Jul-2010	5.69	5.6879		Jul-2011	5.95	5.9479		Jul-2012	6.05	6.0532		Jul-2013	7.01	6.9888		Jul-2014	7.15	7.1301		Jul-2015	7.80	7.7201		Jul-2016	8.86	8.7700	
Aug-2010	5.68	5.6829		Aug-2011	5.95	5.9528		Aug-2012	6.07	6.0721		Aug-2013	7.02	6.9696		Aug-2014	7.15	7.1301		Aug-2015	7.81	7.7201		Aug-2016	8.86	8.7700	
Sep-2010	5.69	5.6927		Sep-2011	5.95	5.9545		Sep-2012	6.08	6.0838		Sep-2013	6.91	6.8868		Sep-2014	7.15	7.1301		Sep-2015	7.81	7.7201		Sep-2016	8.86	8.7700	
Oct-2010	5.71	5.7167		Oct-2011	5.96	5.9589		Oct-2012	6.09	6.0904		Oct-2013	6.89	6.8702		Oct-2014	7.15	7.1301		Oct-2015	7.92	7.8257		Oct-2016	8.86	8.7700	
Nov-2010	5.74	5.7482		Nov-2011	5.97	5.9751		Nov-2012	6.09	6.0947		Nov-2013	6.88	6.8684		Nov-2014	7.15	7.1301		Nov-2015	7.88	7.7963		Nov-2016			
Dec-2010	5.78	5.7874		Dec-2011	6.00	6.0093		Dec-2012	6.15	6.1544		Dec-2013	6.90	6.8834		Dec-2014	7.15	7.1301		Dec-2015	7.81	7.7201		Dec-2016			
Av.	5.62	5.6247		Av.	5.93	5.9356		Av.	6.06	6.0205		Av.	6.87	6.8563		Av.	7.08	7.0639		Av.	7.69	7.6584		Av.	8.61	8.5180	
increment				increment	0.31	0.3109		increment	0.12	0.0849		increment	0.81	0.8358		increment	0.21	0.2076		increment	0.61	0.5945		increment	0.92	0.8596	

E-2-2.Calculation of the Price escalation (recent price increase)

Inflation Rates

		Headline CPI	Core CPI	Regulated Items	Fruits & Vegetables
		الرقم العام لأسعار المستهلكين	الرقم الأساسي لأسعار المستهلكين	السلع والخدمات المحدد أسعارها إدارياً	الخضروات و الفاكهة
		(النسبة المئوية السنوية للتغير الشهري - m/m percentage change)			
مارس 2017	Mar-17	1.954%	0.969%	1.728%	7.669%
فبراير 2017	Feb-17	2.628%	2.610%	0.631%	5.507%
يناير 2017	Jan-17	4.065%	4.995%	0.732%	3.642%
ديسمبر 2016	Dec-16	3.126%	4.351%	0.092%	0.889%
نوفمبر 2016	Nov-16	4.850%	5.333%	5.341%	1.649%
أكتوبر 2016	Oct-16	1.700%	2.812%	1.211%	-3.102%
سبتمبر 2016	Sep-16	1.249%	1.395%	1.905%	-0.307%
أغسطس 2016	Aug-16	1.926%	0.611%	4.604%	5.052%
يوليو 2016	Jul-16	0.741%	0.246%	0.361%	3.841%
يونيه 2016	Jun-16	0.777%	0.735%	0.000%	2.071%
مايو 2016	May-16	1.265%	1.242%	0.000%	3.222%
مارس 2016	Mar-16	1.437%	1.618%	0.583%	1.705%
يناير 2016	Jan-16	0.111%	0.983%	0.000%	-4.228%

1/ Source: Central Agency for Public Mobilization and Statistics (CAPMAS), and CBE calculations.

2/ Monthly and annual Data from January 2005 to December 2007 are based on the 1999/2000 Household Expenditure Survey

Monthly Data from January 2008 to August 2009 are based on the 2004/2005 Household Expenditure Survey.

Monthly Data from September 2009 to Present are based on the 2008/2009 Household Expenditure Survey.

Annual Data from January 2008 to July 2010 are based on the 2004/2005 Household Expenditure Survey.

Annual Data from August 2010 to Present are based on the 2008/2009 Household Expenditure Survey.

3/ Core CPI excludes from the headline CPI regulated items and the most volatile food items, namely fruits & vegetables.

For more information on Core CPI, consult the CBE's publication "The Core Inflation Measure", published October 25, 2009

4/ Fruits & Vegetables do not include pulses, dried fruits and processed vegetables which are part of the Core CPI.

Inflation Rates

		Headline CPI الرقم العام لأسعار المستهلكين	
		(m/m percentage change) النسبة المئوية للتغير الشهري	(Total ratio from Mar 2016)
مارس 2017	Mar-17	1.954%	23.0%
فبراير 2017	Feb-17	2.628%	21.1%
يناير 2017	Jan-17	4.065%	18.4%
ديسمبر 2016	Dec-16	3.126%	14.4%
نوفمبر 2016	Nov-16	4.850%	11.2%
أكتوبر 2016	Oct-16	1.700%	6.4%
سبتمبر 2016	Sep-16	1.249%	4.7%
أغسطس 2016	Aug-16	1.926%	3.4%
يوليو 2016	Jul-16	0.741%	1.5%
يونيه 2016	Jun-16	0.777%	0.8%
مايو 2016	May-16	1.265%	0.0%

1/ Source: Central Agency for Public Mobilization and Statistics (CAPMAS), and CBE calculations.

2/ Monthly and annual Data from January 2005 to December 2007 are based on the 1999/2000 Household Expenditure Survey

Monthly Data from January 2008 to August 2009 are based on the 2004/2005 Household Expenditure Survey.

Monthly Data from September 2009 to Present are based on the 2008/2009 Household Expenditure Survey.

Annual Data from January 2008 to July 2010 are based on the 2004/2005 Household Expenditure Survey.

Annual Data from August 2010 to Present are based on the 2008/2009 Household Expenditure Survey.

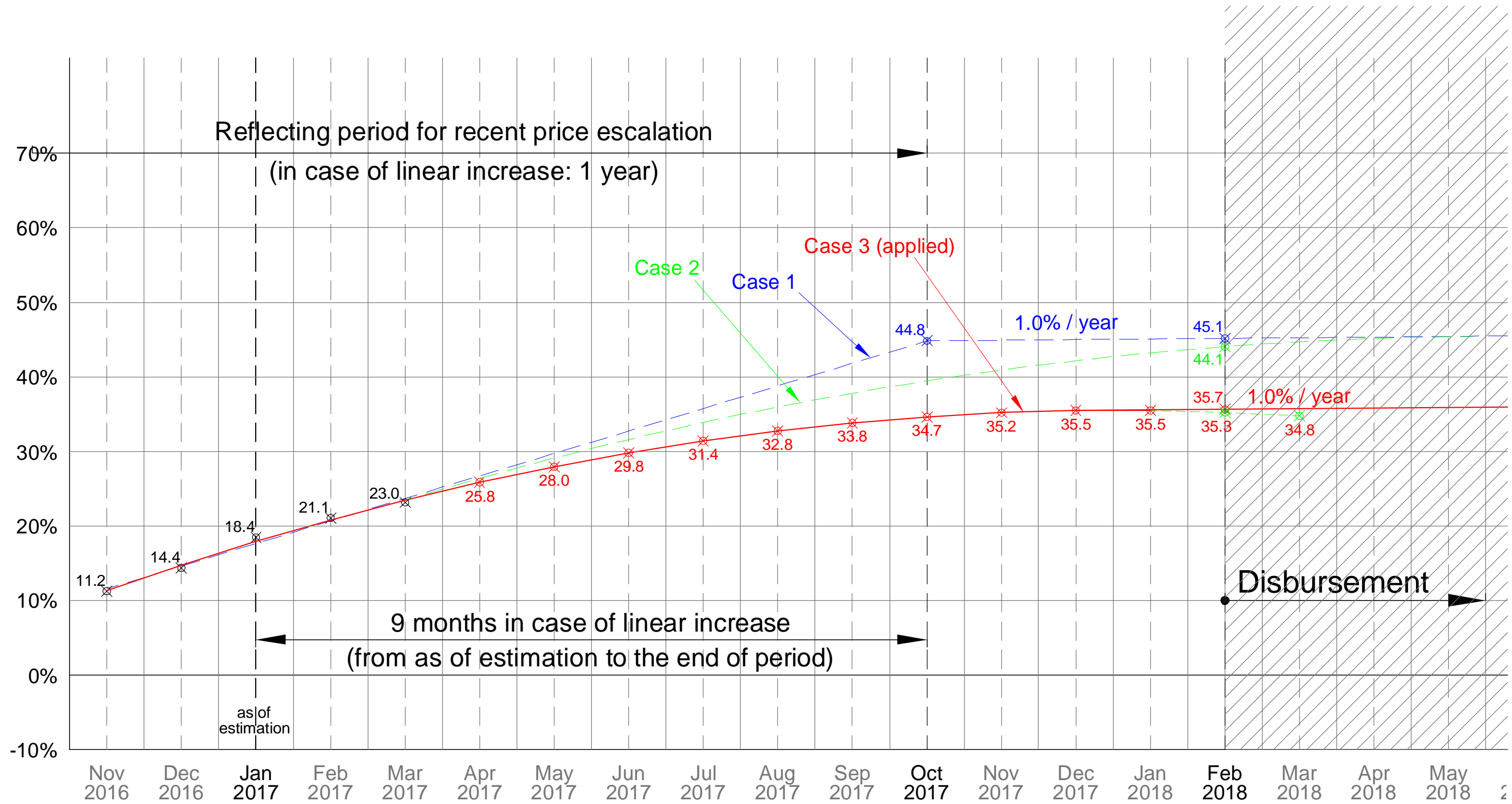
3/ Core CPI excludes from the headline CPI regulated items and the most volatile food items, namely fruits & vegetables.

For more information on Core CPI, consult the CBE's publication "The Core Inflation Measure", published October 25, 2009

4/ Fruits & Vegetables do not include pulses, dried fruits and processed vegetables which are part of the Core CPI.

Source: Central Bank of Egypt

<http://www.cbe.org.eg/en/EconomicResearch/Statistics/Pages/Inflationhistorical.aspx>



E-2-3.Total of Price escalation rate

Calculation of Price Contingency

(beginning of construction: Feb-2018)

1. Inflation rate

(1) Inflation rate

LC:	17.3 % (④)	: increase ratio of price escalation from January 2017 to February 2018
	1.0 %/year (②)	: after the above period
FC:	1.6 %/year	: up to the end of construction

(2) Inflation rate for calculation of price contingency

2017													2018		2019	2020	2021	2022	May	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Feb	Feb	Feb	Feb	Feb	
duration (month)	0	1	2	3	4	5	6	7	8	9	10	11	12	24	36	48	60	63		
duration (year)	0.00	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.83	0.92	1.00	2.00	3.00	4.00	5.00	5.25		
Inflation rate (LC)	rate (%/year)	-	-												1.010					
	total rate (%)	1.184	1.211	1.230	1.258	1.280	1.298	1.314	1.328	1.338	1.347	1.352	1.355	1.3558	1.3567	1.3667	1.3768	1.3870	1.3973	
	total increase (%)	-	0.027	0.046	0.074	0.096	0.114	0.130	0.144	0.154	0.163	0.168	0.171	0.172	0.1727	0.1827	0.1928	0.2030	0.2133	
Inflation rate (FC)	rate (%/year)	-	1.016												1.016					
	total rate (%)	-	1.000												1.016	1.032	1.049	1.066	1.083	
	total increase (%)	-	0.000												0.016	0.032	0.049	0.066	0.083	

E-13

2. Total of Inflation rate

(1) Local Currency

first year	94,370,145	25%
second year	94,370,145	25%
third year	94,370,145	25%
fourth year	75,496,116	20%
fifth year	18,874,029	5%
Total	377,480,579	(LE)

	first year	second year	third year	fourth year	fifth year
Local Currency	Feb 2018-2019	Feb 2019-2020	Feb 2020-2021	Feb 2021-2022	Mar-Apr 2022
Disbursement	94,370,145	94,370,145	94,370,145	75,496,116	18,874,029
Inflation rate (%)	0.1727	0.1827	0.1928	0.2030	0.2133
Price contingency (LE)	16,297,724	17,241,425	18,194,564	15,325,712	4,025,830

Total of price contingency 71,085,255 (LE)
 Total of Inflation rate **1.189** (LC)

(2) Foreign Currency

first year	728,853,633	25%
second year	728,853,633	25%
third year	728,853,633	25%
fourth year	583,082,906	20%
fifth year	145,770,727	5%
Total	2,915,414,531	(YEN)

	first year	second year	third year	fourth year	fifth year
Foreign Currency	Feb 2018-2019	Feb 2019-2020	Feb 2020-2021	Feb 2021-2022	Mar-Apr 2022
Disbursement	728,853,633	728,853,633	728,853,633	583,082,906	145,770,727
Inflation rate (%)	0.0160	0.0323	0.0488	0.0656	0.0826
Price contingency (YEN)	11,661,658	23,509,903	35,547,719	38,222,513	12,040,850

Total of price contingency 120,982,643 (YEN)
 Total of Inflation rate **1.042** (FC)

APPENDIX E-3

Unit Price list

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E-3-1. Unit Price List (A. Canal Harbour and Great Projects Co)

A. Personal Fee

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
A-1	Civil Engineer	20 years experience	Month	30,000.00	
A-2	Civil Engineer	15 years experience	Month	20,000.00	
A-3	Civil Engineer	10 years experience	Month	15,000.00	
A-4	Civil Engineer	5 years experience	Month	10,000.00	
A-5	Architect Engineer	20 years experience	Month	30,000.00	
A-6	Architect Engineer	15 years experience	Month	20,000.00	
A-7	Architect Engineer	10 years experience	Month	15,000.00	
A-8	Architect Engineer	5 years experience	Month	10,000.00	
A-9	Mechanical Engineer	20 years experience	Month	30,000.00	
A-10	Mechanical Engineer	15 years experience	Month	20,000.00	
A-11	Mechanical Engineer	10 years experience	Month	15,000.00	
A-12	Mechanical Engineer	5 years experience	Month	10,000.00	
A-13	Electrical Engineer	20 years experience	Month	30,000.00	
A-14	Electrical Engineer	15 years experience	Month	20,000.00	
A-15	Electrical Engineer	10 years experience	Month	15,000.00	
A-16	Electrical Engineer	5 years experience	Month	10,000.00	
A-17	Surveyor		Month	15,000.00	
A-18	Surveyor Assistant		Month	10,000.00	
A-19	Draft man (CAD Operator)		Month	10,000.00	
A-20	Administrator	10 years experience	Month	5,000.00	
A-21	Administrative Secretary		Month	4,000.00	
A-22	Assistant Administrator		Month	4,000.00	
A-23	Office boy		Month	3,000.00	
A-24	Driver (Dump Truck, Cargo Truck)		Month	10,000.00	
A-25	Driver (Dump Truck, Cargo Truck)		Day	400.00	
A-26	Driver	Small Vehicle	Month	5,000.00	
A-27	Driver	Small Vehicle	Day	200.00	
A-28	Security guard (Watchman)	Day	Month	3,000.00	
A-29	Security guard (Watchman)	Night	Month	3,000.00	
A-30	Forman		Day	150.00	
A-31	Skilled labor		Day	200.00	
A-32	Common labor		Day	150.00	
A-33	Rigger		Day	200.00	
A-34	Re-bar fixer		Day	200.00	
A-35	Operator for construction equipment		Day	200.00	
A-36	Carpenter		Day	200.00	
A-37	Plasterer		Day	200.00	
A-38	Masonry		Day	200.00	
A-39	Painter		Day	200.00	
A-40	Welder		Day	200.00	
A-41	Electrician	General	Day	200.00	
A-42	Electrician	High Volts	Day	200.00	
A-43	Mechanic		Day	200.00	
A-44	Plumber		Day	200.00	

Condition;

- 1) Above costs shall include base wages, bonus, retirement allowances and legal welfares that would be bone by the employer.
- 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
- 3) Above costs shall not include holiday allowance, midnight allowance, transportation and accommodation expense..

Work condition;

Normal Working Hour 8 , include one hour break

Working day 6 days/week

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
B-1	Excavator (Backhoe)	0.45m3	Day	3,921.00	
B-2	Excavator (Backhoe)	0.8m3	Day	4,196.00	
B-3	Excavator (Backhoe)	1.4m3	Day	2,500.00	
B-4	Giant Breaker	1300kg	Day		attachment for heavy equipment
B-5	Truck Crane	5t	Day	2,000.00	
B-6	Truck Crane	20t	Day	2,500.00	
B-7	Truck Crane	25t	Day	3,000.00	
B-8	Truck Crane	35t	Day	5,000.00	
B-9	Truck Crane	50t	Day	8,000.00	
B-10	Truck Crane	80t	Day	9,000.00	
B-11	Rough terrain crane	20t	Day	3,000.00	
B-12	Rough terrain crane	25t	Day	4,000.00	
B-13	Rough terrain crane	30t	Day	5,000.00	
B-14	Rough terrain crane	50t	Day	9,000.00	
B-15	Crawler crane	30 - 35t	Day	3,340.00	
B-16	Crawler crane	40 - 45t	Day	2,745.00	
B-17	Crawler crane	50 - 55t	Day		
B-18	Crawler crane	80t	Day	2,668.00	
B-19	Clamshell	0.8m3	Day		attachment for heavy equipment
B-20	Bulldozer	15t	Day	4,570.00	
B-21	Bulldozer	21t	Day	4,570.00	
B-22	Wheel Shovel (Loader)	2.1m3	Day		
B-23	Dump truck	4t	Day	1,200.00	
B-24	Dump truck	10t	Day	1,800.00	
B-25	Truck	4t	Day	990.00	
B-26	Truck	6t	Day	1,200.00	
B-27	Truck	11t	Day	1,700.00	
B-28	Truck with Crane	4t/2t	Day		
B-29	Trailer	15t	Day	2,680.00	
B-30	Trailer	20t	Day	2,680.00	
B-31	Trailer	30t	Day	2,680.00	
B-32	Plate Compactor	60-100kg	Day	1,142.00	
B-33	Tamping Rammer	60-100kg	Day		
B-34	Vibratory Roller	0.8-1.1t	Day	1,200.00	
B-35	Vibratory Roller	3 - 4t	Day	1,400.00	
B-36	Vibratory Roller	8 - 10t	Day	2,000.00	
B-37	Pneumatic tire roller	8-20t	Day	2,000.00	
B-38	Mixer Truck	4.4m3	Day	3200	
B-39	Mixer Truck	5m3	Day	3200	
B-40	Concrete Batcher Plant	30m3/h	Day	15000	
B-41	Concrete Batcher Plant	45m3/h	Day	20000	
B-42	Cement Silo	50t	Day	1000	
B-43	Concrete Pump Truck	40~75m3/h	Day	3000	
B-44	Concrete Pump Truck	90~110m3/h	Day	5000	
B-45	Motor Grader	W3.2m, 120PS	Day	2000	
B-46	Asphalt Finisher	Width 1.4 - 3.0m	Day	3000	
B-47	Asphalt Finisher	Width 2.4 - 6.0m	Day	4000	
B-48	Road Roller	10 - 12t	Day	3000	
B-49	Tire Roller	8 - 20t	Day	2000	
B-50	Welding Machine	300A	Day	500	
B-51	Vibrator	D50mm	Day	100.00	
B-52	Submersible Pump	6inch h=10m	Day	900.00	
B-53	Submersible Pump	4inch h=15m	Day	700.00	
B-54	Submersible Pump	2inch h=30m	Day	500.00	
B-55	Generator	300kva	Day	1,697.00	
B-56	Generator	200kva	Day	1,356.00	
B-57	Generator	150kva	Day	1,000.00	
B-58	Generator	100kva	Day	900.00	
B-59	Generator	75kva	Day	900.00	
B-60	Generator	50kva	Day	900.00	
B-61	Generator	35kva	Day	900.00	

C. Construction Materials-1 (Cilil Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
C-1	Reinforcing bar	φ10	Ton	10,000.00	
C-2	Reinforcing bar (Deformed bar)	D12 - D16	Ton	10,000.00	
C-3	Reinforcing bar (Deformed bar)	D18- D25	Ton	10,000.00	
C-4	Reinforcing bar (Deformed bar)	D29 - D41	Ton	10,000.00	
C-5	H-beam	Size up to 200×200	Ton	9,000.00	
C-6	H-beam	H300×300 and more	Ton	9,000.00	
C-7	Maintenance fee for H-beam		Ton	9,000.00	
C-8	Steel angle	L50×50	Ton	9,000.00	
C-9	Steel angle	L75×75	Ton	9,000.00	
C-10	Channel	C150×75×6.5	Ton	9,000.00	
C-11	Channel	C200×80×7.5	Ton	9,000.00	
C-12	Channel	C250×90×9	Ton	9,000.00	
C-13	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	pc	7,000.00	
C-14	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	pc	7,500.00	
C-15	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	pc	8,000.00	
C-16	Steel wire		Kg	15.00	
C-17	Barbed wire		Kg	20.00	
C-18	Galvanized Gabion box	2×1×1m, 3.9mm wire	pc	200.00	
C-19	Cement (Sulfate Resisting Cement)	type V 50kg bag	Ton	1,000.00	
C-20	Cement (Nomal Portland Cement)	type I 50kg bag	Ton	900.00	
C-21	Non Shrink Cement		kg	10.00	
C-22	Water reducing agent and setting retarder		Lit.	10.00	
C-23	Fine aggregate for concrete		m3	135.00	
C-24	Coarse aggregate for concrete	25-40mm	m3	200.00	
C-25	Sand for backfill	from Nearest Quarry	m3	90.00	
C-26	Crushed stone for pavement		m3	40.00	
C-27	Rubble Stone	Dia. 200-400mm	m3	40.00	
C-28	Hydrated lime		kg	10.00	
C-29	Timber	50W×50H×4000L	m3	5,200.00	
C-30	Plywood	1.22×2.44 m T=12mm	m2	150.00	for formwork
C-31	Plywood	1.22×2.44 m T=18mm	m2	200.00	for formwork
C-32	Plywood (coating)	1.22×2.44 m T=12mm	m2	180.00	for formwork
C-33	Plywood (coating)	1.22×2.44 m T=18mm	m2	230.00	for formwork
C-34	Concrete form oil		ℓ		for formwork
C-35	Pitty	1.7×2m	pc		for scaffolding
C-36	Bracing	2.7m	pc		for scaffolding
C-37	Bracing	3m	pc		for scaffolding
C-38	Jack Base		pc		for scaffolding
C-39	scaffolding board	3m×0.25m	pc		for scaffolding
C-40	Pipe	6 meter φ2.5", wall thick 1.5mm	pc		for scaffolding
C-41	steps	2 meter, wdth 0.5m	pc		for scaffolding
C-42	Sleeper Jack		pc		for scaffolding
C-43	Clamp		pc		for scaffolding
C-44	Caster	6 inch	pc		for scaffolding
C-45	Sandbag	48×62cm	pc	10.00	
C-46	Sandbag (1 ton)	86×86×120cm	pc	50.00	
C-47	Polyethylene sheet	t=0.15mm	m2	20.00	
C-48	Steel plate	1.2m×2.5m, t=22mm	pc	6,000.00	
C-49	Steel plate	1.5m×3.0m, t=22mm	pc	8,000.00	
C-50	Checkered steel plate	1.2m×2.5m, t=22mm	pc	6,500.00	
C-51	Checkered steel plate	1.5m×3.0m, t=22mm	pc	8,500.00	
C-52	Oil boom	upper 30cm×lower 40cm (from water surface)	m	1,000.00	
C-53	Bitumen		Kg	20.00	
C-54	PVC pipe	φ25	m	30.00	
C-55	PVC pipe	φ50	m	60.00	
C-56	PVC pipe	φ100	m	130.00	
C-57	PVC pipe	φ150	m	160.00	
C-58	PVC pipe	φ200	m	220.00	
C-59	PVC pipe	φ250	m	300.00	
C-60	Galvanized steel pipe	25A	m	80.00	
C-61	Galvanized steel pipe	50A	m	160.00	

C. Construction Materials-1 (Cilil Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
C-62	Galvanized steel pipe	100A	m	350.00	
C-63	Galvanized steel pipe	200A	m	750.00	
C-64	Galvanized steel pipe	300A	m	1,000.00	
C-65	Galvanized steel Handrail	H=1.100	m	1,000.00	
C-66	Steel stairs	W1.2m×H10m	t	20,000.00	
C-67	Guardrail for Bridge (galvanized steel)	H1.2m	m	3,000.00	
C-68	Guardrail for Road (galvanized steel)	H1.1m	m	2,200.00	
C-69	Guardpipe for Road (galvanized steel)	H1.1m	m		
C-70	Grating (galvanized steel)	T-20	m2		
C-71	Nail	55mm	kg	15.00	
C-72	Footstep (steel vynil coating)	d19mm×w300mm	pc		
C-73	Rubber shoe for bridge	Pad type, t=32mm	m2		
C-74	Rubber shoe for bridge	Pad type, t=40mm	m2		
C-75	Rubber shoe for bridge	Pad type, t=50mm	m2		
C-76	Expansion joint for bridge	steel, \angle =20mm	m2		
C-77	Expansion joint for bridge	steel, \angle =35mm	m2		
C-78	Anchor rod for bridge	fixed, ϕ 32	pc	150.00	
C-79	Anchor rod for bridge	movable, ϕ 32	pc	150.00	
C-80	Dowell bar	ϕ 28, L=700mm	pc	70.00	
C-81	Dowell bar cap	ϕ 28	pc	100.00	
C-82	Water stop (PVC)	w230mm	m	100.00	
C-83	Expansion joint filler	Rubber, t=20mm	m2	100.00	
C-84	Geotextile	nylon · polyester, t=0.5mm	m2	30.00	
C-85	Water gauge	SUS, W130mm	m		

Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
- 2) Above costs shall include cost of transportation to the Dirout site.

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-1	Oil paint		Lit.		
D-2	Emulsion paint		Lit.		
D-3	Acrylics paint		Lit.		
D-4	Vinyl paint		Lit.		
D-5	Emulsion putty		Lit.		
D-6	Oil putty		Lit.		
D-7	Brick	200×100×60	1000pc	400.00	
D-8	Concrete block	150×200×400	1000pc	600.00	
D-9	Asphalt water proofing sheet		m2	80.00	
D-10	Roof drain	for φ100mm, PVC	m2		
D-11	Polystyrene form	t=50mm	m2		
D-12	Common glass	t=4mm	m2		
D-13	Glass containing a net	t=6.8mm	m2		
D-14	Stainless steel hinge		pc		
D-15	Door lock		pc		
D-16	Door closer		pc		
D-17	Aluminum window	1500×1000	m2	1,200.00	
D-18	Aluminum louver	1000×500	m2		
D-19	Steel door	2000×2500	m2		
D-20	Wooden door	600×2000	pc		
D-21	Ceramic tile		m2	100.00	
D-22	Terrazzo tile		m2		
D-23	Marble stone		m2		
D-24	Cement tile	200×200×20	m2	45.00	
D-25	P-Tile	300×300×4mm	m2		
D-26	Gypsum board	t=12	m2	150.00	
D-27	Cement board	t=6	m2		
D-28	Corner bead	t=9mm	m		
D-29	Ceiling access hatch	□600mm	pc		
D-30	Electric wire	2mm2-2C	m		
D-31	Electric wire	2mm2-3C	m		
D-32	Electric wire	3.5mm2-2C	m		
D-33	Electric wire	3.5mm2-3C	m		
D-34	Electric wire	3.5mm2-4C	m		
D-35	Electric wire	5.5mm2-2C	m		
D-36	Electric wire	5.5mm2-3C	m		
D-37	Electric wire	5.5mm2-4C	m		
D-38	Electric wire	8mm2-3C	m		
D-39	Electric wire	14mm2-3C	m		
D-40	Electric wire	22mm2-3C	m		
D-41	Electric wire	30mm2-3C	m		
D-42	Electric wire	38mm2-3C	m		
D-43	Electric conduit pipe	φ20	m		
D-44	Electric conduit pipe	φ50	m		
D-45	Electric conduit pipe	φ100	m		
D-46	Electric conduit pipe	φ150	m		
D-47	Switch	AC300V 10A	pc		
D-48	Socket outlet	AC250V 2P-13A	pc		
D-49	Pull box	100×100×100	pc		
D-50	Breaker	MCB 4P 50AF/30AT	pc		
D-51	Breaker	ELB 2P 50AF/20AT	pc		
D-52	Power distribution board	MCB 2P 50AF/20AT x14	pc		
D-53	Fluorescent light (Ceiling type)	20W×4 (Ceiling)	set		
D-54	Fluorescent light (Ceiling mounted type)	40W×2 (Ceiling)	set		
D-55	Fluorescent light (Ceiling mounted type)	40W×1 (Ceiling)	set		
D-56	Fluorescent light (Wall mounted type)	18W×1 (Wall)	set		
D-57	Incandescent lamp (Ceiling mounted type)	60W×1 (Ceiling)	set		
D-58	Incandescent lamp (Waterproof type)	60W×1 (Wall)	set		
D-59	Ventilation fan	400CMHx14mmAp	set		
D-60	Ventilation fan	580CMHx7mmAp	set		
D-61	Air-conditioner	5500kcal/h	set		

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-62	Washstand		set		
D-63	Sink cabinet		set		
D-64	Transformer (3-phase)	200KVA	set		
D-65	Transformer (3-phase)	100KVA	set		
D-66	Caulking material		kg		
D-67	Abrasive paper		sh		
D-68	Coated steel pipe	6.4mm	m		
D-69	Coated steel pipe	15.9mm	m		
D-70	Slice valve	32mm	pc		
D-71	Gass cock	GC25	pc		
D-72	Screw cock	GC25	pc		
D-73	Drain plate	COA100	pc		
D-74	Western style toilet bowl	Lowtank type	pc		
D-75	Water faucet		pc		
D-76	Sewage tank	450×450×600	pc		
D-77	Valve	40A	pc		
D-78	Soak pit	1200φ×2,600mm	pc		
D-79	Range food	400 m ³ /h	pc		
D-80	Ventilation fan (Ceiling)	550CMH×7mA	pc		
D-81	Ventilation fan (Wall)	400CMH×7mA	pc		
D-82	Fan for pipe	100φ 100 m ³ /h	pc		
D-83	Air filter	500×1000×25	pc		
D-84	Air filter	500×1500×25	pc		
D-85	Spiral duct	150φ	pc		
D-86	Bendcap	150φ	pc		
D-87	Assembling equipment for gas cylinder		set		
D-88	Thermostat		pc		
D-89	Heat resistance cable	HP 1.2—4C	m		
D-90	Concrete box	Octagonal 75mm w/coverplate	pc		
D-91	Outlet box	square w/coverplate	pc		
D-92	Outlet box	3P 15A	pc		
D-93	Cover plate		pc		
D-94	Distribution board		pc		
D-95	Firealarm reception board	5-wire circuit	pc		
D-96	Smoke detector	Light sensing type	pc		
D-97	Heat detector	Constant temperature type	pc		
D-98	General panel	w/lamp,bell	pc		
D-99	Mercury lamp material		set		
D-100	Cable	vv3c-5.5	m		
D-101	Fluorescent light (Ceiling type)	F61WP	pc		
D-102	Flexible pipe	C25	m		
D-103	Heat resistance cable	HP 1.2mm—5P	m		
D-104	Conductor	60sq	m		
D-105	Supporting material	for electric cable	pc		
D-106	Line-connecting terminal	60sq	pc		
D-107	Grounding rod	14×1500	pc		
D-108	Grounding copper plate	1.5t×900	pc		
D-109	Indication plate		pc		
D-110	Earthing terminal board	1P+2	pc		
D-111	Vinyl raceway	VE(28)	m		
D-112	Vinyl electric wire	5.5sq	m		
D-113	Vinyl electric wire	50sq	m		
D-114	Conduit	FEP(50)	m		
D-115	Conduit	CP(31)	m		
D-116	Normal connecting bend	CP(31)	m		
D-117	Flexible metal conduit		m		
D-118	Box connector		pc		
D-119	Pipe connector		pc		
D-120	Pull box	300×300×200	pc		
D-121	Handhall cap	Φ600	pc		

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks

Remarks:

- (1) Conditions:
- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
- 2) Above costs shall include cost of transportation to the Dirout site.

E. Transportation/Customs Clearance

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
E-1	Port discharge fee	General Cargo	F/T		
E-2	Customs clearance	General Cargo	F/T		
E-3	Transportation cost	General Cargo (Alexandria to Dirout)	F/T		
E-4	Transportation cost	General Cargo (Cairo to Dirout)	F/T		
E-5	Transportation cost	for heavy equipment (Cairo to Dirout), 30t	unit		
E-6	Transportation cost	for heavy equipment (Cairo to Dirout), 40t	unit		
E-7	Transportation cost	for heavy equipment (Cairo to Dirout), 50t	unit		

Remarks:

- (1) Conditions:
 - 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
 - 2) Above costs shall indicate the transportation cost from Alexandria to Site.

G. Temporary Building & Works

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
	Public Fee				
G-1	Water charge	Connection	time		
G-2	Water charge	Basic charge	month		
G-3	Water charge	Usage fee	m3		
G-4	Telephone charge	Registration	time		
G-5	Telephone charge	Basic charge	month		
G-6	Telephone charge	Usage fee	min		
G-7	Electricity charge	Connection	time		
G-8	Electricity charge	Basic charge	month		
G-9	Electricity charge	Usage fee	Kwh		
G-10	Gasoline		Lit	3.50	
G-11	Diesel		Lit	2.35	
G-12	Lubricating oil		Lit	75.00	
G-13	Oxygen		cylinder		
G-14	Acetylene		cylinder		
	Temporary facilities				
G-15	Temporary fence w/wire	H=2.0m	m		
G-16	Temporary fence w/sheet	H=2.0m	m		
G-17	Project signboard w/stand	1.8m×3.6m	set		
G-18	Project signboard w/stand	0.9m×1.8m	set		
	House rental				
G-19	House rent	3 bed rooms (in Dirout)	month	5,000.00	
G-20	Land rent	at near Dirout site	m2/month		

Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.

H. Main Construction

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
	Earth Work				
H-1	Excavation (normal soil)		m3	50.00	
H-2	Backfill		m3	20.00	
H-3	Soil disposal		m3	50.00	
H-4	Demolition of Existing structure (brick)		m3	200.00	
H-5	Wet masonry works		m3		
H-6	Dry riprap works		m3		
H-7	Gabion box works		m3		
	Concrete Work				
H-8	Form works		m2		
H-9	Re-bar works		ton	1,000.00	
H-10	Concrete casting works (15Mpa)		m3		
H-11	Concrete casting works (20Mpa)		m3		
H-12	Concrete casting works (25Mpa)		m3		
	Asphalt Pavement Work				
H-13	Base course		m3		
H-14	Prime coat		m2		
H-15	Tack coat		m2		
H-16	As pavement		m2		
	Deepwell Work				
H-17	Design of deep well system		Lot		
H-18	Well digging with casing, screw and filter		m		
H-19	Water pump (150m3/hr) installation(Rental)		pc * day		
H-20	Network pipe assembling		Lot		
H-21	Network pipe (Rental)		Day/lot		
H-22	Mobilization & Demobilization		Lot		
H-23	Operation and control of well system		Day/Lot		
H-24	E.Power for operation (3 Generators×400 KVA)		Day/lot		
	Test				
H-25	Concrete compressive strength test		time	25.00	
H-26	Concrete slump test		time	50.00	
H-27	Concrete air content test		time	85.00	
H-28	Cement quality test		time	100.00	
H-29	Specific gravity test		time	100.00	
H-30	Water absorption test		time	100.00	
H-31	Aggregate sieving distribution test		time	100.00	
H-32	Test for alkali-aggregate reaction		time	200.00	
H-33	Re-bar strength test		time		
H-34	Bearing capacity test for concrete pile		time	200,000.00	

Conditions:

- 1) Above cost shall not include company's overhead expense, profit and Taxes such as VAT.

E-3-2. Unit Price List (B. Samcrete)

SANYU CONSULTANTS INC.

Date : 6th December 2016

Ref. : T / 2016 / 657

Subject: Construction of the New Dirout Group of
Regulators for budgetary cost estimation

Dear Sir,

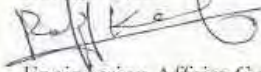
Reference to the above mentioned project, and your mail dated 5th December 2016; please find enclosed the following filled forms as required:

1. Unit Price List.
2. General Information of Company
3. Financial Statement in Last Two Years
4. Samcrete Egypt Company Profile

Looking that the above full fill the requirement, So we can start our dedicated co-operation.

Yours sincerely

Refky Kamel



Engineering Affairs General Manager



SAMCRETE
Engineers & Contractors

8 Mansouria Road, AL Ahram, Giza, Egypt. P.O.Box : 686 Cairo. T +2 02 3389 1100 F +2 02 3389 1122
www.samcrete.com

Construction of the New Dirout Group of Regulators for budgetary cost estimation

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1. Unit Price List.
2. General Information of Company
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4. Samcrete Egypt Company Profile



Samcrete

Construction of the New Dirout Group of Regulators for budgetary cost estimation

Unit Price List.

Samcrete

A. Personal Fee

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
A-1	Civil Engineer	20 years experience	Month	51,800	Average
A-2	Civil Engineer	15 years experience	Month	38,000	
A-3	Civil Engineer	10 years experience	Month	25,900	
A-4	Civil Engineer	5 years experience	Month	17,300	
A-5	Architect Engineer	20 years experience	Month	51,800	
A-6	Architect Engineer	15 years experience	Month	38,000	
A-7	Architect Engineer	10 years experience	Month	25,900	
A-8	Architect Engineer	5 years experience	Month	17,300	
A-9	Mechanical Engineer	20 years experience	Month	48,300	
A-10	Mechanical Engineer	15 years experience	Month	34,500	
A-11	Mechanical Engineer	10 years experience	Month	20,700	
A-12	Mechanical Engineer	5 years experience	Month	17,300	
A-13	Electrical Engineer	20 years experience	Month	48,300	
A-14	Electrical Engineer	15 years experience	Month	34,500	
A-15	Electrical Engineer	10 years experience	Month	20,700	
A-16	Electrical Engineer	5 years experience	Month	17,300	
A-17	Surveyor		Month	13,800	
A-18	Surveyor Assistant		Month	8,700	
A-19	Draft man (CAD Operator)		Month	13,800	
A-20	Administrator	10 years experience	Month	20,700	
A-21	Administrative Secretary		Month	13,800	
A-22	Assistant Administrator		Month	8,700	
A-23	Office boy		Month	6,100	
A-24	Driver (Dump Truck, Cargo Truck)		Month	13,800	
A-25	Driver (Dump Truck, Cargo Truck)		Day	6,900	
A-26	Driver	Small Vehicle	Month	8,700	
A-27	Driver	Small Vehicle	Day	400	
A-28	Security guard (Watchman)	Day	Month	6,100	
A-29	Security guard (Watchman)	Night	Month	6,900	
A-30	Forman		Day	520	
A-31	Skilled labor		Day	350	
A-32	Common labor		Day	210	
A-33	Rigger		Day	440	
A-34	Re-bar fixer		Day	440	
A-35	Operator for construction equipment		Day	520	
A-36	Carpenter		Day	440	
A-37	Plasterer		Day	440	
A-38	Masonry		Day	440	
A-39	Painter		Day	440	
A-40	Welder		Day	520	
A-41	Electrician	General	Day	440	
A-42	Electrician	High Volts	Day	520	
A-43	Mechanic		Day	440	
A-44	Plumber		Day	440	

Condition;

- 1) Above costs shall include base wages, bonus, retirement allowances and legal welfares that would be borne by the employer.
- 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
- 3) Above costs shall not include holiday allowance, midnight allowance, transportation and accommodation expense..

Work condition:

Normal Working Hour 8:00 to 16:00 include one hour break
 Working day 6 days/week



R. H. H. H.

** the above mentioned prices are for the budgetry use based on the current market prices

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
B-1	Excavator (Backhoe)	0.45m ³	Day	3,910.00	
B-2	Excavator (Backhoe)	0.8m ³	Day	5,870.00	
B-3	Excavator (Backhoe)	1.4m ³	Day	7,820.00	
B-4	Giant Breaker	1300kg	Day	-	attachment for heavy equipment
B-5	Truck Crane	5t	Day	3,910.00	
B-6	Truck Crane	20t	Day	6,850.00	
B-7	Truck Crane	25t	Day	9,780.00	
B-8	Truck Crane	35t	Day	11,730.00	
B-9	Truck Crane	50t	Day	15,640.00	
B-10	Truck Crane	80t	Day	23,460.00	
B-11	Rough train crain	20t	Day	-	
B-12	Rough train crain	25t	Day	-	
B-13	Rough train crain	30t	Day	-	
B-14	Rough train crain	50t	Day	-	
B-15	Crawler crane	30 - 35t	Day	15,640.00	
B-16	Crawler crane	40 - 45t	Day	19,550.00	
B-17	Crawler crane	50 - 55t	Day	23,460.00	
B-18	Crawler crane	80t	Day	29,330.00	
B-19	Clamshell	0.8m ³	Day	-	attachment for heavy equipment
B-20	Bulldozer	15t	Day	9,780.00	
B-21	Bulldozer	21t	Day	11,730.00	
B-22	Wheel Shovel (Loader)	2.1m ³	Day	3,910.00	
B-23	Dump truck	4t	Day	1,960.00	
B-24	Dump truck	10t	Day	3,520.00	
B-25	Truck	4t	Day	1,570.00	
B-26	Truck	6t	Day	2,350.00	
B-27	Truck	11t	Day	2,940.00	
B-28	Truck with Crane	4t/2t	Day	2,940.00	
B-29	Trailer	15t	Day	4,890.00	
B-30	Trailer	20t	Day	6,850.00	
B-31	Trailer	30t	Day	8,800.00	
B-32	Plate Compactor	60-100kg	Day	590.00	
B-33	Tamping Rammer	60-100kg	Day	400.00	
B-34	Vibratory Roller	0.8-1.1t	Day	1,570.00	
B-35	Vibratory Roller	3 - 4t	Day	2,350.00	
B-36	Vibratory Roller	8 - 10t	Day	3,910.00	
B-37	Pneumatic tire roller	8-20t	Day	3,910.00	
B-38	Mixer Truck	4.4m ³	Day	1,960.00	
B-39	Mixer Truck	5m ³	Day	2,350.00	
B-40	Concrete Batcher Plant	30m ³ /h	Day	19,550.00	
B-41	Concrete Batcher Plant	45m ³ /h	Day	29,330.00	
B-42	Cement Silo	50t	Day	3,910.00	
B-43	Concrete Pump Truck	40~75m ³ /h	Day	3,910.00	
B-44	Concrete Pump Truck	90~110m ³ /h	Day	5,870.00	
B-45	Motor Grader	W3.2m, 120PS	Day	3,910.00	
B-46	Asphalt Finisher	Width 1.4 - 3.0m	Day	3,910.00	
B-47	Asphalt Finisher	Width 2.4 - 6.0m	Day	5,870.00	
B-48	Road Roller	10 - 12t	Day	2,940.00	
B-49	Tire Roller	8 - 20t	Day	3,910.00	
B-50	Welding Machine	300A	Day	1,960.00	
B-51	Vibrator	D50mm	Day	980.00	
B-52	Submersible Pump	6inch h=10m	Day	980.00	
B-53	Submersible Pump	4inch h=15m	Day	1,570.00	
B-54	Submersible Pump	2inch h=30m	Day	2,350.00	
B-55	Generator	300kva	Day	3,910.00	
B-56	Generator	200kva	Day	2,940.00	
B-57	Generator	150kva	Day	2,550.00	
B-58	Generator	100kva	Day	2,160.00	
B-59	Generator	75kva	Day	1,960.00	
B-60	Generator	50kva	Day	1,760.00	

*** the above mentioned prices are for the budgetry use based on the current market prices

B-1



08/12/2016

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
B-61	Generator	35kva	Day	1,570.00	



*** the above mentioned prices are for the budgetary use based on the current market prices

B-2

06/12/2016

C. Construction Materials-I (Cilil Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
C-1	Reinforcing bar	φ10	Ton	11,100.00	
C-2	Reinforcing bar (Deformed bar)	D12 - D16	Ton	11,100.00	
C-3	Reinforcing bar (Deformed bar)	D18 - D25	Ton	11,100.00	
C-4	Reinforcing bar (Deformed bar)	D29 - D41	Ton	12,500.00	by order
C-5	H-beam	Size up to 200×200	Ton	22,100.00	
C-6	H-beam	H300×300 and more	Ton	22,100.00	
C-7	Maintenance fee for H-beam		Ton	-	
C-8	Steel angle	L50×50	Ton	20,700.00	
C-9	Steel angle	L75×75	Ton	20,700.00	
C-10	Channel	C150×75×6.5	Ton	22,100.00	
C-11	Channel	C200×80×7.5	Ton	22,100.00	
C-12	Channel	C250×90×9	Ton	22,100.00	
C-13	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	pc	-	
C-14	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	pc	-	
C-15	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	pc	-	
C-16	Steel wire		Kg	35.00	
C-17	Barbed wire		Kg	22.00	
C-18	Galvanized Gabion box	2×1×1m, 3.9mm wire	pc	2,800.00	
C-19	Cement (Sulfate Resisting Cement)	type V 50kg bag	Ton	1,400.00	
C-20	Cement (Normal Portland Cement)	type I 50kg bag	Ton	1,300.00	
C-21	Non Shrink Cement		kg	16,600.00	
C-22	Water reducing agent and setting retarder		Lit	-	
C-23	Fine aggregate for concrete		m ³	70.00	
C-24	Coarse aggregate for concrete	25-40mm	m ³	170.00	
C-25	Sand for backfill	from Nearest Quarry	m ³	60.00	
C-26	Crushed stone for pavement		m ³	210.00	
C-27	Rubble Stone	Dia. 200-400mm	m ³	140.00	
C-28	Hydrated lime		kg	-	
C-29	Timber	50W×50H×4000L	m ³	6,900.00	
C-30	Plywood	1.22×2.44 m T-12mm	m ²	140.00	for formwork
C-31	Plywood	1.22×2.44 m T-18mm	m ²	200.00	for formwork
C-32	Plywood (coating)	1.22×2.44 m T-12mm	m ²	60.00	for formwork
C-33	Plywood (coating)	1.22×2.44 m T-18mm	m ²	60.00	for formwork
C-34	Concrete form oil		ℓ	-	for formwork
C-35	Pity	1.7×2m	pc	-	for scaffolding
C-36	Bracing	2.7m	pc	-	for scaffolding
C-37	Bracing	3m	pc	-	for scaffolding
C-38	Jack Base		pc	-	for scaffolding
C-39	scaffolding board	3m×0.25m	pc	-	for scaffolding
C-40	Pipe	6 meter φ2.5", wall thick 1.5mm	pc	-	for scaffolding
C-41	steps	2 meter, wdth 0.5m	pc	-	for scaffolding
C-42	Sleeper Jack		pc	-	for scaffolding
C-43	Clamp		pc	-	for scaffolding
C-44	Caster	6 inch	pc	-	for scaffolding
C-45	Sandbag	48×62cm	pc	30.00	
C-46	Sandbag (1 ton)	86×86×120cm	pc	280.00	
C-47	Polyethylene sheet	t=0.15mm	m ²	30.00	
C-48	Steel plate	1.2m×2.5m, t=22mm	pc	1,380.00	
C-49	Steel plate	1.5m×3.0m, t=22mm	pc	2,070.00	
C-50	Checkered steel plate	1.3m×2.5m, t=22mm	pc	2,070.00	
C-51	Checkered steel plate	1.5m×3.0m, t=22mm	pc	3,040.00	
C-52	Oil boom	upper 30cm (lower 40cm (free water surface)	m	-	
C-53	Bitumen		Kg	20.00	
C-54	PVC pipe	φ25	m	20.00	
C-55	PVC pipe	φ50	m	30.00	
C-56	PVC pipe	φ100	m	90.00	
C-57	PVC pipe	φ150	m	140.00	
C-58	PVC pipe	φ200	m	250.00	
C-59	PVC pipe	φ250	m	390.00	

*** the above mentioned prices are for the budgetry use based on the current market prices

C-1

10:56 ص



C. Construction Materials-1 (Civil Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
C-60	Galvanized steel pipe	25A	m	70.00	
C-61	Galvanized steel pipe	50A	m	130.00	
C-62	Galvanized steel pipe	100A	m	240.00	
C-63	Galvanized steel pipe	200A	m	560.00	
C-64	Galvanized steel pipe	300A	m	830.00	
C-65	Galvanized steel Handrail	H=1.100	m	1,380.00	
C-66	Steel stairs	W1.2m×H10m	t	41,400.00	
C-67	Guardrail for Bridge (galvanized steel)	H1.2m	m	1,660.00	
C-68	Guardrail for Road (galvanized steel)	H1.1m	m	1,520.00	
C-69	Guardpipe for Road (galvanized steel)	H1.1m	m	1,110.00	
C-70	Grating (galvanized steel)	T-20	m ²	4,140.00	
C-71	Nail	55mm	kg	50.00	
C-72	Footstep (steel vinyl coating)	d19mm×w300mm	pc	-	
C-73	Rubber shoe for bridge	Pad type, t=32mm	m ²	96,600.00	
C-74	Rubber shoe for bridge	Pad type, t=40mm	m ²	118,680.00	
C-75	Rubber shoe for bridge	Pad type, t=50mm	m ²	151,800.00	
C-76	Expansion joint for bridge	steel, Δ =20mm	m ²	4,140.00	
C-77	Expansion joint for bridge	steel, Δ =35mm	m ²	5,520.00	
C-78	Anchor rod for bridge	fixed, ϕ 32	pc	2,070.00	
C-79	Anchor rod for bridge	movable, ϕ 32	pc	2,070.00	
C-80	Dowell bar	ϕ 28, L=700mm	pc	280.00	
C-81	Dowell bar cap	ϕ 28	pc	70.00	
C-82	Water stop (PVC)	w230mm	m	120.00	
C-83	Expansion joint filler	Rubber, t=20mm	m ²	210.00	
C-84	Geotextile	nylon + polyester, t=0.5mm	m ²	50.00	
C-85	Water gauge	SUS, W130mm	m	-	

Remarks:

(1) Conditions:

- Above costs shall not include company's overhead expense, profit and taxes such as V.A
- Above costs shall include cost of transportation to the Dirout site.



*** the above mentioned prices are for the budgetry use based on the current market prices

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-1	Oil paint		Lit.	28.00	
D-2	Emulsion paint		Lit.	28.00	
D-3	Acrylics paint		Lit.	28.00	
D-4	Vinyl paint		Lit.	42.00	
D-5	Emulsion putty		Lit.	28.00	
D-6	Oil putty		Lit.	28.00	
D-7	Brick	200×100×60	1000pc	1,380.00	
D-8	Concrete block	150×200×400	1000pc	8,280.00	
D-9	Asphalt water proofing sheet		m2	83.00	
D-10	Roof drain	for φ100mm, PVC	m2	-	
D-11	Polystyrene form	t=50mm	m2	98.00	
D-12	Common glass	t=4mm	m2	70.00	
D-13	Glass containing a net	t=6.8mm	m2	276.00	
D-14	Stainless steel hinge		pc	-	
D-15	Door lock		pc	276.00	
D-16	Door closer		pc	1,656.00	
D-17	Aluminum window	1500×1000	m2	2,070.00	
D-18	Aluminum louver	1000×500	m2	2,070.00	
D-19	Steel door	2000×2500	m2	27,600.00	
D-20	Wooden door	600×2000	pc	3,450.00	
D-21	Ceramic tile		m2	138.00	
D-22	Terrazzo tile		m2	98.00	
D-23	Marble stone		m2	690.00	
D-24	Cement tile	200×200×20	m2	70.00	
D-25	P-Tile	300×300×4mm	m2	208.00	
D-26	Gypsum board	t=12	m2	221.00	
D-27	Cement board	t=6	m2	138.00	
D-28	Corner bead	t=9mm	m	166.00	
D-29	Ceiling access hatch	□600mm	pc	4,140.00	
D-30	Electric wire	2mm2-2C	m	15.00	
D-31	Electric wire	2mm2-3C	m	18.00	
D-32	Electric wire	3.5mm2-2C	m	24.00	
D-33	Electric wire	3.5mm2-3C	m	33.00	
D-34	Electric wire	3.5mm2-4C	m	41.00	
D-35	Electric wire	5.5mm2-2C	m	34.00	
D-36	Electric wire	5.5mm2-3C	m	46.00	
D-37	Electric wire	5.5mm2-4C	m	56.00	
D-38	Electric wire	8mm2-3C	m	70.00	
D-39	Electric wire	14mm2-3C	m	98.00	
D-40	Electric wire	22mm2-3C	m	208.00	
D-41	Electric wire	30mm2-3C	m	276.00	
D-42	Electric wire	38mm2-3C	m	329.00	
D-43	Electric conduit pipe	φ20	m	12.00	
D-44	Electric conduit pipe	φ50	m	26.00	
D-45	Electric conduit pipe	φ100	m	70.00	
D-46	Electric conduit pipe	φ150	m	111.00	
D-47	Switch	AC300V 10A	pc	346.00	
D-48	Socket outlet	AC250V 2P-13A	pc	208.00	
D-49	Pull box	100×100×100	pc	138.00	
D-50	Breaker	MCB 4P 50AF/30AT	pc	1,036.00	
D-51	Breaker	ELB 2P 50AF/20AT	pc	690.00	
D-52	Power distribution board	MCB 2P 50AF/20AT x14	pc	8,280.00	
D-53	Fluorescent light (Ceiling type)	20W×4 (Ceiling)	set	1,036.00	
D-54	Fluorescent light (Ceiling mounted type)	40W×2 (Ceiling)	set	898.00	
D-55	Fluorescent light (Ceiling mounted type)	40W×1 (Ceiling)	set	690.00	
D-56	Fluorescent light (Wall mounted type)	18W×1 (Wall)	set	690.00	
D-57	Incandescent lamp (Ceiling mounted type)	60W×1 (Ceiling)	set	484.00	
D-58	Incandescent lamp (Waterproof type)	60W×1 (Wall)	set	690.00	
D-59	Ventilation fan	400CMHx14mmAp	set	11,730.00	

*** the above mentioned prices are for the budgetry use based on the current market prices

D-1

06/12/2016

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
D-60	Ventilation fan	580CMHx7mmAp	set	20,700.00	
D-61	Air-conditioner	5500kcal/h	set	16,560.00	
D-62	Washstand		set	0.00	
D-63	Sink cabinet		set	0.00	
D-64	Transformer (3-phase)	200KVA	set	0.00	
D-65	Transformer (3-phase)	100KVA	set	0.00	
D-66	Caulking material		kg	0.00	
D-67	Abrasive paper		sh	0.00	
D-68	Coated steel pipe	6.4mm	m	0.00	
D-69	Coated steel pipe	15.9mm	m	0.00	
D-70	Slice valve	32mm	pc	0.00	
D-71	Gas cock	GC25	pc	0.00	
D-72	Screw cock	GC25	pc	0.00	
D-73	Drain plate	COA100	pc	0.00	
D-74	Western style toilet bowl	Lowtank type	pc	0.00	
D-75	Water faucet		pc	0.00	
D-76	Sewage tank	450x450x600	pc	0.00	
D-77	Valve	40A	pc	0.00	
D-78	Soak pit	1200φx2,600mm	pc	0.00	
D-79	Range food	400 m3/h	pc	0.00	
D-80	Ventilation fan (Ceiling)	550CMHx7mA	pc	0.00	
D-81	Ventilation fan (Wall)	400CMHx7mA	pc	0.00	
D-82	Fan for pipe	100φ 100 m3/h	pc	0.00	
D-83	Air filter	500x1000x25	pc	0.00	
D-84	Air filter	500x1500x25	pc	0.00	
D-85	Spiral duct	150φ	pc	0.00	
D-86	Bendcap	150φ	pc	0.00	
D-87	Assembling equipment for gas cylinder		set	0.00	
D-88	Thermostat		pc	0.00	
D-89	Heat resistance cable	HP 1.2 --4C	m	0.00	
D-90	Concrete box	Octagonal 75mm w/coverplate	pc	0.00	
D-91	Outlet box	square w/coverplate	pc	0.00	
D-92	Outlet box	3P 15A	pc	0.00	
D-93	Cover plate		pc	0.00	
D-94	Distribution board		pc	0.00	
D-95	Firealarm reception board	5-wire circuit	pc	0.00	
D-96	Smoke detector	Light sensing type	pc	0.00	
D-97	Heat detector	Constant temperature type	pc	0.00	
D-98	General panel	w/lamp,bell	pc	0.00	
D-99	Mercury lamp material		set	0.00	
D-100	Cable	vv3c-5.5	m	0.00	
D-101	Fluorescent light (Ceiling type)	F6)WP	pc	0.00	
D-102	Flexible pipe	C25	m	0.00	
D-103	Heat resistance cable	HP 1.2mm--5P	m	0.00	
D-104	Conductor	60sq	m	0.00	
D-105	Supporting material	for electric cable	pc	0.00	
D-106	Line-connecting terminal	60sq	pc	0.00	
D-107	Grounding rod	14x1500	pc	0.00	
D-108	Grounding copper plate	1.5x900	pc	0.00	
D-109	Indication plate		pc	0.00	
D-110	Earthing terminal board	1P+2	pc	0.00	
D-111	Vinyl raceway	VE(28)	m	0.00	
D-112	Vinyl electric wire	5.5sq	m	0.00	
D-113	Vinyl electric wire	50sq	m	0.00	
D-114	Conduit	FEP(50)	m	0.00	
D-115	Conduit	CP(31)	m	0.00	
D-116	Normal connecting bend	CP(31)	m	0.00	
D-117	Flexible metal conduit		m	0.00	
D-118	Box connector		pc	0.00	

*** the above mentioned prices are for the budgetry use based on the current market prices

D-2

06/12/2010



D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
D-119	Pipe connector		pc	0.00	
D-120	Pull box	300×300×200	pc	0.00	
D-121	Handhall cap	Φ600	pc	0.00	

Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A
- 2) Above costs shall include cost of transportation to the Dirout site.



*** the above mentioned prices are for the budgetry use based on the current market prices

G. Temporary Building & Works

1/1

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
Public Fee					
G-1	Water charge	Connection	time	-	
G-2	Water charge	Basic charge	month	-	
G-3	Water charge	Usage fee	m3	14.00	
G-4	Telephone charge	Registration	time	-	
G-5	Telephone charge	Basic charge	month	-	
G-6	Telephone charge	Usage fee	min	2.00	
G-7	Electricity charge	Connection	time	-	
G-8	Electricity charge	Basic charge	month	-	
G-9	Electricity charge	Usage fee	Kwh	3.00	
G-10	Gasoline		Lit	6.25	Gasoline 95A 6.25LE/L
G-11	Diesel		Lit	2.35	
G-12	Lubricating oil		Lit	115.00	
G-13	Oxygen		cylinder	3,307.00	
G-14	Acetylene		cylinder	4,629.00	
Temporary facilities					
G-15	Temporary fence w/wire	H=2.0m	m	700.00	
G-16	Temporary fence w/sheet	H=2.0m	m	1,100.00	
G-17	Project signboard w/stand	1.8m×3.6m	set	26,500.00	
G-18	Project signboard w/stand	0.9m×1.8m	set	10,600.00	
House rental					
G-19	House rent	3 bed rooms (in Dirout)	month	8,000.00	
G-20	Land rent	at near Dirout site	m2/month	5.00	

Remarks:

(1) Conditions:

1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.



*** the above mentioned prices are for the budgetry use based on the current market prices

G-1

06/12/2016

H. Main Construction

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
Earth Work					
H-1	Excavation (normal soil)		m ³	18.00	
H-2	Backfill	from excavated material	m ³	26.00	
H-3	Soil disposal		m ³	35.00	
H-4	Demolition of Existing structure (brick)		m ³	260.00	
H-5	Wet masonry works		m ³	1,208.00	
H-6	Dry riprap works		m ³	432.00	
H-7	Gabion box works		m ³	863.00	
Concrete Work					
H-8	Form works		m ²	138.00	
H-9	Re-bar works		ton	1,725.00	
H-10	Concrete casting works (15Mpa)	without steel RFT	m ³	1,035.00	
H-11	Concrete casting works (20Mpa)	without steel RFT	m ³	1,380.00	
H-12	Concrete casting works (25Mpa)	without steel RFT	m ³	1,725.00	
Asphalt Pavement Work					
H-13	Base course		m ³	242.00	
H-14	Prime coat		m ²	18.00	
H-15	Tack coat		m ²	8.00	
H-16	As pavement	5 cm thick.	m ²	104.00	
Deepwell Work					
H-17	Design of deep well system		Lot		
H-18	Well digging with casing, screw and filter		m	3,450.00	
H-19	Water pump (150m ³ /hr) installation(Rental)		pc·day	863.00	
H-20	Network pipe assembling		Lot	34,500.00	
H-21	Network pipe (Rental)		Day/lot	1,725.00	
H-22	Mobilization & Demobilization		Lot	51,750.00	
H-23	Operation and control of well system		Day/Lot	5,175.00	
H-24	E.Power for operation (3 Generators*400 KVA)		Day/lot	15,525.00	
Test					
H-25	Concrete compressive strength test		time	260.00	
H-26	Concrete slump test		time	260.00	
H-27	Concrete air content test		time	345.00	
H-28	Cement quality test		time	345.00	
H-29	Specific gravity test		time	260.00	
H-30	Water absorption test		time	345.00	
H-31	Aggregate sieving distribution test		time	260.00	
H-32	Test for alkali-aggregate reaction		time	518.00	
H-33	Re-bar strength test		time	863.00	
H-34	Bearing capacity test for concrete pile		time	120,750.00	

Conditions:

- 1) Above cost shall not include company's overhead expense, profit and Taxes such as VAT.

*** the above mentioned prices are for the budgetry use based on the current market prices

H-1

06/12/2016



R/S/

Construction of the New Dirout Group of Regulators for budgetary cost estimation

General Information of Company

Samcrete

General Information of Company

1. Company Name (legal name)

Samcrete Egypt – Engineers & Contractors

2. Office Address

8 El Mansouria Road – Ahram – Giza - Egypt

3. The Business License Number issued by Government of the Republic of Egypt, if you have.

Organization of Issue : General Contractor

License Number : 16866 Cairo

Date of Issue : January 1963

4. Name of Company's Representative

Eng Refky kamel – Engineering Affairs General Manager

5. Date Establishment of Company

(month and year) January 1963

6. Full Paid-in Capital

300 Million EGP – 34,090,909 US\$

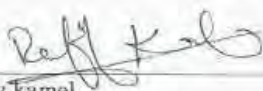
7. Numbers of Employee in Present

	Permanent Staff	Temporary Staff in now
Administrators	95Administrators + 71 Accountants	
Engineer	327	
Skill Labor	195	
Office Staff	366 +276 driver	

8. Number of on going project and last three years

Number of on going project: 20 Total contract amount: 684,545,454 US\$

Number of last three years: 23 Total contract amount: 795,454,545 US\$


Refky kamel
 Engineering Affairs General Manager
 Samcrete Egypt – Engineers & Contractors



Construction of the New Dirout Group of Regulators for budgetary cost estimation

Financial Statement in Last Two Years

Samcrete

Financial Statement in last two year

Unit: US\$

Fiscal Year Item	2015	2014	Remarks
1. Gross sales	93,708,549	70,822,225	
2. Gross profit	11,912,970	13,785,833	
3. Operating profit	740,940	7,574,706	
4. Ordinary profit	1,933,008	6,833,351	
5. Net profit before tax	1,930,492	7,798,835	
6. Current assets	117,767,985	78,131,102	
7. Fixed assets	72,189,556	66,231,142	
8. Current liabilities	115,201,897	75,629,969	
9. Share holder's equity	58,599,531	57,203,897	
10. Total of liabilities and share holder's equity	189,957,541	144,362,243	

Remarks: Gross profit = Gross sales – Cost of sales
Operating profit = Gross profit – Selling and administration cost
Ordinary profit = Operating profit + non-operating income – non-operating expense
Net profit before tax = Ordinary profit + extraordinary income – extraordinary loss


Refky Kame
Engineering Affairs General Manager
Samcrete Egypt – Engineers & Contractors



E-3-3. Unit Price List (C. Union Seven)

Date: January 22, 2017

Attn.: Masanobu KADOWAKI
Sanyu Consultants Inc.

Sub.: Price inquiry on the Unit Rate of Labor, Equipment, Material, Services and other items for
"Detailed Design on the Project for Construction of the New Dirout Group of Regulators" for
budgetary cost estimation

Dear Sir,

We have the honor to submit our unit price list for the study of the said project, our price
presents the actual unit price right now.

Also, we do not have idea of the future influences of the market even though, we are ready to co-
operate with you, so please keep in touch.

We are looking forward for good future co-operation with your projects in Egypt.

Hossam Abdel Sameh
Hossam Abdel Sameh
Managing Director
Union Seven, S.A.E.



شركة يونيون سفن
للإنشاءات الحديثة والتوريدات
ش.م.ع
UNION SEVEN
for Modern Construction & Supplies
S.A.E

A. Personal Fee

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
A-1	Civil Engineer	20 years experience	Month	48,900	Average
A-2	Civil Engineer	15 years experience	Month	41,800	
A-3	Civil Engineer	10 years experience	Month	34,736	
A-4	Civil Engineer	5 years experience	Month	24,959	
A-5	Architect Engineer	20 years experience	Month	48,900	
A-6	Architect Engineer	15 years experience	Month	41,800	
A-7	Architect Engineer	10 years experience	Month	34,736	
A-8	Architect Engineer	5 years experience	Month	24,959	
A-9	Mechanical Engineer	20 years experience	Month	48,900	
A-10	Mechanical Engineer	15 years experience	Month	41,800	
A-11	Mechanical Engineer	10 years experience	Month	34,736	
A-12	Mechanical Engineer	5 years experience	Month	24,959	
A-13	Electrical Engineer	20 years experience	Month	48,900	
A-14	Electrical Engineer	15 years experience	Month	41,800	
A-15	Electrical Engineer	10 years experience	Month	34,736	
A-16	Electrical Engineer	5 years experience	Month	24,959	
A-17	Surveyor		Month	17,359	
A-18	Surveyor Assistant		Month	8,859	
A-19	Draft man (CAD Operator)		Month	11,692	
A-20	Administrator	10 years experience	Month	21,609	
A-21	Administrative Secretary		Month	8,859	
A-22	Assistant Administrator		Month	10,276	
A-23	Office boy		Month	6,026	
A-24	Driver (Dump Truck, Cargo Truck)		Month	8,151	
A-25	Driver (Dump Truck, Cargo Truck)		Day	398	
A-26	Driver	Small Vehicle	Month	7,442	
A-27	Driver	Small Vehicle	Day	369	
A-28	Security guard (Watchman)	Day	Month	3,901	
A-29	Security guard (Watchman)	Night	Month	4,609	
A-30	Forman		Day	440	
A-31	Skilled labor		Day	369	
A-32	Common labor		Day	206	
A-33	Rigger		Day	369	
A-34	Re-bar fixer		Day	369	
A-35	Operator for construction equipment		Day	440	
A-36	Carpenter		Day	369	
A-37	Plasterer		Day	369	
A-38	Masonry		Day	369	
A-39	Painter		Day	369	
A-40	Welder		Day	405	
A-41	Electrician	General	Day	405	
A-42	Electrician	High Volts	Day	405	
A-43	Mechanic		Day	369	
A-44	Plumber		Day	369	

Condition;

- 1) Above costs shall include base wages, bonus, retirement allowances and legal welfares that would be borne by the employer.
- 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
- 3) Above costs shall not include holiday allowance, midnight allowance, transportation and accommodation expense.

Work condition;

Normal Working Hour 8:00 to 16:00 include one hour break
 Working day 6 days/week



A-1

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
B-1	Excavator (Backhoe)	0.45m ³	Day	1,000.00	
B-2	Excavator (Backhoe)	0.8m ³	Day	1,200.00	
B-3	Excavator (Backhoe)	1.4m ³	Day	1,350.00	
B-4	Giant Breaker	1300kg	Day	1,500.00	attachment for heavy equipment
B-5	Truck Crane	5t	Day		
B-6	Truck Crane	20t	Day	2,500.00	
B-7	Truck Crane	25t	Day	3,000.00	
B-8	Truck Crane	35t	Day	3,500.00	
B-9	Truck Crane	50t	Day	5,000.00	
B-10	Truck Crane	80t	Day	7,500.00	
B-11	Rough terrain crane	20t	Day	2,500.00	
B-12	Rough terrain crane	25t	Day	3,000.00	
B-13	Rough terrain crane	30t	Day	3,500.00	
B-14	Rough terrain crane	50t	Day	5,000.00	
B-15	Crawler crane	30 - 35t	Day	4,000.00	
B-16	Crawler crane	40 - 45t	Day	4,500.00	
B-17	Crawler crane	50 - 55t	Day	5,000.00	
B-18	Crawler crane	80t	Day	7,500.00	
B-19	Clamshell	0.8m ³	Day	6,000.00	attachment for heavy equipment
B-20	Bulldozer	15t	Day	2,000.00	
B-21	Bulldozer	21t	Day	2,000.00	
B-22	Wheel Shovel (Loader)	2.1m ³	Day	1,200.00	
B-23	Dump truck	4t	Day	1,000.00	
B-24	Dump truck	10t	Day	1,500.00	
B-25	Truck	4t	Day	750.00	
B-26	Truck	6t	Day	1,000.00	
B-27	Truck	11t	Day	1,500.00	
B-28	Truck with Crane	4t/2t	Day	2,000.00	
B-29	Trailer	15t	Day	3,000.00	
B-30	Trailer	20t	Day	3,500.00	
B-31	Trailer	30t	Day	4,000.00	
B-32	Plate Compactor	60-100kg	Day	350.00	
B-33	Tamping Rammer	60-100kg	Day	350.00	
B-34	Vibratory Roller	0.8-1.1t	Day	800.00	
B-35	Vibratory Roller	3 - 4t	Day	900.00	
B-36	Vibratory Roller	8 - 10t	Day	1,150.00	
B-37	Pneumatic tire roller	8-20t	Day	2,000.00	
B-38	Mixer Truck	4.4m ³	Day		
B-39		5m ³	Day	2500	
B-40	Concrete Batch Plant	30m ³ /h	Day	10000	
B-41	Concrete Batch Plant	45m ³ /h	Day	12500	
B-42	Cement Silo	50t	Day	750	not less one year
B-43	Concrete Pump Truck	40~75m ³ /h	Day	6500	
B-44	Concrete Pump Truck	90~110m ³ /h	Day	8000	
B-45	Motor Grader	W3.2m, 120PS	Day	3000	
B-46	Asphalt Finisher	Width 1.4 - 3.0m	Day	4000	
B-47	Asphalt Finisher	Width 2.4 - 6.0m	Day	5000	
B-48	Road Roller	10 - 12t	Day	1850	
B-49	Tire Roller	8 - 20t	Day	2250	
B-50	Welding Machine	300A	Day	400	
B-51	Vibrator	D50mm	Day	150.00	
B-52	Submersible Pump	6inch h=10m	Day	300.00	
B-53	Submersible Pump	4inch h=15m	Day	275.00	

B-1

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
B-54	Submersible Pump	2inch h=30m	Day	250.00	
B-55	Generator	300kva	Day	1,500.00	
B-56	Generator	200kva	Day	1,100.00	
B-57	Generator	150kva	Day	1,000.00	
B-58	Generator	100kva	Day	850.00	
B-59	Generator	75kva	Day	750.00	
B-60	Generator	50kva	Day	600.00	
B-61	Generator	35kva	Day	550.00	
B-62	Vibrate Hammer for driving steel sheet pile	90kw, for Hat-type	Day		attachment for heavy equipment
B-63	Vibrate Hammer for driving steel sheet pile	60kw, for Hat-type	Day	2,500.00	attachment for heavy equipment
B-64	Re Bar Cutter	D41	Day	750.00	Not less 6 month
B-65	Re Bar Bender	D41	Day	750.00	Not less 6 month
B-66	Water Tank Truck	10m3	Day	1,800.00	Not less 6 month
B-67	Water jet	14.7MPa, 325l/min	Day		for driving steel sheet
B-68	Reverse Circulation Drill	rotary table, Ø3,200mm, H200m	Day		for cast-in-place concrete pile
B-69	Hydraulic Press-fitting and Pulling machine	4 jacks, D1,000mm	Day		for cast-in-place concrete pile
B-70	Sedan Car	without driver & fuel	day	450.00	Not less 6 month
B-71	Sedan Car	without driver & fuel	month	11,000.00	Not less 6 month
B-72	Pick up Truck	without driver & fuel	day	400.00	Not less 6 month
B-73	Pick up Truck	without driver & fuel	month	9,500.00	Not less 6 month
B-74	4WD car	without driver & fuel	day	1,500.00	Not less 6 month
B-75	4WD car	without driver & fuel	month	37,000.00	Not less 6 month
B-76	Microbus (20 passengers)	without driver & fuel	day	800.00	Not less 6 month
B-77	Microbus (20 passengers)	without driver & fuel	month	18,000.00	Not less 6 month



Remarks:
 Conditions:
 1) Above costs shall not include fuel, operator and transportation to the site.
 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
 3) Normal rental hour of the equipment per day: 8 hours

C. Construction Materials-1 (Cilil Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
C-1	Reinforcing bar	φ10	Ton	11,000.00	
C-2	Reinforcing bar (Deformed bar)	D12 - D16	Ton	11,000.00	
C-3	Reinforcing bar (Deformed bar)	D18- D25	Ton	11,000.00	
C-4	Reinforcing bar (Deformed bar)	D29 - D41	Ton	12,250.00	by order
C-5	H-beam	Size up to 200×200	Ton	15,000.00	
C-6	H-beam	H300×300 and more	Ton	17,500.00	
C-7	Maintenance fee for H-beam		Ton		
C-8	Steel angle	L50×50	Ton	11,000.00	
C-9	Steel angle	L75×75	Ton	N/A	
C-10	Channel 160×80×6	C150×75×6.5	Ton	15,000.00	
C-11	Channel 200×80×8	C200×80×7.5	Ton	15,000.00	
C-12	Channel 260×90×9	C250×90×9	Ton	15,000.00	
C-13	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	pc	N/A	
C-14	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	pc	N/A	
C-15	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	pc	N/A	
C-16	Steel wire		Kg	18.00	
C-17	Barbed wire		Kg	20.00	
C-18	Galvanized Gabion box	2×1×1m, 3.9mm wire	pc		
C-19	Cement (Sulfate Resisting Cement)	type V 50kg bag	Ton	935.00	
C-20	Cement (Normal Portland Cement)	type I 50kg bag	Ton	870.00	
C-21	Non Shrink Cement		kg	10.00	
C-22	Water reducing agent and setting retarder		Lit.	35.00	
C-23	Fine aggregate for concrete		m ³	50.00	
C-24	Coarse aggregate for concrete	25-40mm	m ³	160.00	
C-25	Sand for backfill	from Nearest Quarry	m ³	40.00	
C-26	Crushed stone for pavement		m ³	120.00	
C-27	Rubble Stone	Dia. 200-400mm	m ³	90.00	
C-28	Hydrated lime		kg	1.00	
C-29	Timber	50W×50H×4000L	m ³	5,500.00	
C-30	Plywood	1.22×2.44 m T=12mm	m ²	280.00	for formwork
C-31	Plywood	1.22×2.44 m T=18mm	m ²	315.00	for formwork
C-32	Plywood (coating)	1.22×2.44 m T=12mm	m ²	320.00	for formwork
C-33	Plywood (coating)	1.22×2.44 m T=18mm	m ²	370.00	for formwork
C-34	Concrete form oil		ℓ	10.00	for formwork
C-35	Pitty	1.7×2m	pc		for scaffolding
C-36	Bracing	2.7m	pc		for scaffolding
C-37	Bracing	3m	pc		for scaffolding
C-38	Jack Base		pc		for scaffolding
C-39	scaffolding board	3m×0.25m	pc		for scaffolding
C-40	Pipe	6 meter φ2.5", wall thick 1.5mm	pc		for scaffolding
C-41	steps	2 meter, width 0.5m	pc		for scaffolding
C-42	Sleeper Jack		pc		for scaffolding
C-43	Clamp		pc		for scaffolding
C-44	Caster	6 inch	pc		for scaffolding
C-45	Sandbag	48×62cm	pc		
C-46	Sandbag (1 ton)	86×86×120cm	pc		
C-47	Polyethylene sheet	t=0.15mm	m ²		
C-48	Steel plate	1.2m×2.5m, t=22mm	pc		
C-49	Steel plate	1.5m×3.0m, t=22mm	pc		
C-50	Checkered steel plate	1.2m×2.5m, t=22mm	pc		
C-51	Checkered steel plate	1.5m×3.0m, t=22mm	pc		
C-52	Oil boom	upper 30cm×lower 40cm (from water surface)	m		
C-53	Bitumen		Kg		
C-54	PVC pipe	φ25	m		

C-1



C. Construction Materials-1 (Civil Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
C-55	PVC pipe	$\varnothing 50$	m		
C-56	PVC pipe	$\varnothing 100$	m		
C-57	PVC pipe	$\varnothing 150$	m		
C-58	PVC pipe	$\varnothing 200$	m		
C-59	PVC pipe	$\varnothing 250$	m		
C-60	Galvanized steel pipe	25A	m		
C-61	Galvanized steel pipe	50A	m		
C-62	Galvanized steel pipe	100A	m		
C-63	Galvanized steel pipe	200A	m		
C-64	Galvanized steel pipe	300A	m		
C-65	Galvanized steel Handrail	H=1.100	m		
C-66	Steel stairs	W1.2m \times H10m	t		
C-67	Guardrail for Bridge (galvanized steel)	H1.2m	m		
C-68	Guardrail for Road (galvanized steel)	H1.1m	m		
C-69	Guardpipe for Road (galvanized steel)	H1.1m	m		
C-70	Grating (galvanized steel)	T-20	m ²		
C-71	Nail	55mm	kg		
C-72	Footstep (steel vinyl coating)	d19mm \times w300mm	pc		
C-73	Rubber shoe for bridge	Pad type, t=32mm	m ²		
C-74	Rubber shoe for bridge	Pad type, t=40mm	m ²		
C-75	Rubber shoe for bridge	Pad type, t=50mm	m ²		
C-76	Expansion joint for bridge	steel, $\Delta=20$ mm	m ²		
C-77	Expansion joint for bridge	steel, $\Delta=35$ mm	m ²		
C-78	Anchor rod for bridge	fixed, $\varnothing 32$	pc		
C-79	Anchor rod for bridge	movable, $\varnothing 32$	pc		
C-80	Dowell bar	$\varnothing 28$, L=700mm	pc		
C-81	Dowell bar cap	$\varnothing 28$	pc		
C-82	Water stop (PVC)	w230mm	m		
C-83	Expansion joint filler	Rubber, t=20mm	m ²		
C-84	Geotextile	nylon + polyester, t=0.5mm	m ²		
C-85	Water gauge	SUS, W130mm	m		



Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
- 2) Above costs shall include cost of transportation to the Dirout site.

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-1	Oil paint		Lit.	50	
D-2	Emulsion paint		Lit.	52	
D-3	Acrylics paint		Lit.	60	
D-4	Vinyl paint		Lit.	65	
D-5	Emulsion putty		Lit.	40	
D-6	Oil putty		Lit.	40	
D-7	Brick	200×100×60	1000pc	1,250.00	red brick
D-8	Concrete block	150×200×400	1000pc	4,200.00	
D-9	Asphalt water proofing sheet		m ²	80.00	
D-10	Roof drain	for φ100mm, PVC	m ²	680.00	
D-11	Polystyrene form	t=50mm	m ²	100.00	
D-12	Common glass	t=4mm	m ²	60.00	
D-13	Glass containing a net	t=6.8mm	m ²	95.00	
D-14	Stainless steel hinge		pc	150.00	
D-15	Door lock		pc	860.00	
D-16	Door closer		pc	1,250.00	
D-17	Aluminum window	1500×1000	m ²	4,500.00	
D-18	Aluminum louver	1000×500	m ²	3,000.00	
D-19	Steel door	2000×2500	m ²	20,000.00	
D-20	Wooden door	600×2000	pc	3,580.00	
D-21	Ceramic tile		m ²	230.00	
D-22	Terrazzo tile		m ²	140.00	
D-23	Marble stone		m ²	800.00	
D-24	Cement tile	200×200×20	m ²	100.00	
D-25	P-Tile	300×300×4mm	m ²	150.00	
D-26	Gypsum board	t=12	m ²	200.00	
D-27	Cement board	t=6	m ²	N/A	
D-28	Corner bead	t=9mm	m		
D-29	Ceiling access hatch	φ600mm	pc	2,500.00	
D-30	Electric wire	2mm ² -2C	m		
D-31	Electric wire	2mm ² -3C	m		
D-32	Electric wire	3.5mm ² -2C	m		
D-33	Electric wire	3.5mm ² -3C	m		
D-34	Electric wire	3.5mm ² -4C	m		
D-35	Electric wire	5.5mm ² -2C	m		
D-36	Electric wire	5.5mm ² -3C	m		
D-37	Electric wire	5.5mm ² -4C	m		
D-38	Electric wire	8mm ² -3C	m		
D-39	Electric wire	14mm ² -3C	m		
D-40	Electric wire	22mm ² -3C	m		
D-41	Electric wire	30mm ² -3C	m		
D-42	Electric wire	38mm ² -3C	m		
D-43	Electric conduit pipe	φ20	m	35.00	
D-44	Electric conduit pipe	φ50	m	55.00	
D-45	Electric conduit pipe	φ100	m	95.00	
D-46	Electric conduit pipe	φ150	m	215.00	
D-47	Switch	AC300V 10A	pc		
D-48	Socket outlet	AC250V 2P-13A	pc		
D-49	Pull box	100×100×100	pc		
D-50	Breaker	MCB 4P 50AF/30AT	pc		
D-51	Breaker	ELB 2P 50AF/20AT	pc		
D-52	Power distribution board	MCB 2P 50AF/20AT x14	pc		
D-53	Fluorescent light (Ceiling type)	20W×4 (Ceiling)	set		
D-54	Fluorescent light (Ceiling mounted type)	40W×2 (Ceiling)	set		

D-1



D. Construction Materials-2 (Building Works)


No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-55	Fluorescent light (Ceiling mounted type)	40W×1 (Ceiling)	set		
D-56	Fluorescent light (Wall mounted type)	18W×1 (Wall)	set		
D-57	Incandescent lamp (Ceiling mounted type)	60W×1 (Ceiling)	set		
D-58	Incandescent lamp (Waterproof type)	60W×1 (Wall)	set		
D-59	Ventilation fan	400CMH×14mmAp	set		
D-60	Ventilation fan	580CMH×7mmAp	set		
D-61	Air-conditioner	5500kcal/h	set	15,000.00	
D-62	Washstand		set	3,000.00	
D-63	Sink cabinet		set	5,000.00	
D-64	Transformer (3-phase)	200KVA	set		
D-65	Transformer (3-phase)	100KVA	set		
D-66	Caulking material		kg		
D-67	Abrasive paper		sh		
D-68	Coated steel pipe	6,4mm	m		
D-69	Coated steel pipe	15.9mm	m		
D-70	Slit valve	32mm	pc		
D-71	Gas cock	GC25	pc	8,000.00	
D-72	Screw cock	GC25	pc	35,000.00	
D-73	Drain plate	COA100	pc		
D-74	Western style toilet bowl	Low tank type	pc	2,000.00	
D-75	Water faucet		pc	1,250.00	
D-76	Sewage tank	450×450×600	pc		
D-77	Valve	40A	pc		
D-78	Soak pit	1200φ×2,600mm	pc		
D-79	Range hood	400 m ³ /h	pc		
D-80	Ventilation fan (Ceiling)	550CMH×7mA	pc		
D-81	Ventilation fan (Wall)	400CMH×7mA	pc		
D-82	Fan for pipe	100φ 100 m ³ /h	pc		
D-83	Air filter	500×1000×25	pc		
D-84	Air filter	500×1500×25	pc		
D-85	Spiral duct	150φ	pc		
D-86	Bendcap	150φ	pc		
D-87	Assembling equipment for gas cylinder		set		
D-88	Thermostat		pc		
D-89	Heat resistance cable	HP 1.2-4C	m		
D-90	Concrete box	Octagonal 75mm w/coverplate	pc		
D-91	Outlet box	square w/coverplate	pc		
D-92	Outlet box	3P 15A	pc		
D-93	Cover plate		pc		
D-94	Distribution board		pc		
D-95	Firealarm reception board	5-wire circuit	pc		
D-96	Smoke detector	Light sensing type	pc		
D-97	Heat detector	Constant temperature type	pc		
D-98	General panel	w/lamp, bell	pc		
D-99	Mercury lamp material		set		
D-100	Cable	v3c-5.5	m		
D-101	Fluorescent light (Ceiling type)	F61WP	pc		
D-102	Flexible pipe	C25	m		
D-103	Heat resistance cable	HP 1.2mm-5P	m		
D-104	Conductor	60sq	m		
D-105	Supporting material	for electric cable	pc		
D-106	Line-connecting terminal	60sq	pc		
D-107	Grounding rod	14×1500	pc		
D-108	Grounding copper plate	1.5t×900	pc		

D-2



F. Office Supplies

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
F-1	Copy machine		set	45,000.00	
F-2	Computer		set	15,000.00	
F-3	Printer	Laser	set	16,000.00	A3 size
F-4	Printer	Color ink	set	12,000.00	
F-5	Telephone		set	00 - 900	cell phone/desk tel
F-6	Digital camera		set	14,000.00	
F-7	Television	24 inch	set	5,000.00	
F-8	Air-conditioner	1500w	set	22,000.00	
F-9	Living room furniture set	6 chairs	set	75,000.00	
F-10	Table for meeting	6 chairs	set	35,000.00	
F-11	Table for dining		set	18,000.00	
F-12	Desk		set	4,000.00	
F-13	Chair		set	2,000.00	
F-14	White board	2.5x1.0m	set	1,500.00	
F-15	Locker		set	6,000.00	
F-16	Bookshelf	1.5x1.5m	set	3,500.00	



Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.
- 2) Above costs shall include cost of transportation to the Dirout sites.

A-I

G. Temporary Building & Works

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
Public Fee					
G-1	Water charge	Connection	time	18,000.00	
G-2	Water charge	Basic charge	month		
G-3	Water charge	Usage fee	m3	2.00	Zayed City for construction work house tel
G-4	Telephone charge	Registration	time	11.00	
G-5	Telephone charge	Basic charge	month	45.00	
G-6	Telephone charge	Usage fee	min		
G-7	Electricity charge	Connection	time	65,000.00	
G-8	Electricity charge	Basic charge	month		
G-9	Electricity charge	Usage fee	Kwh	1.00	
G-10	Gasoline		92 Lit	3.50	Gasoline 95A 6.25LE/l
G-11	Diesel		Lit	2.35	
G-12	Lubricating oil		Lit	100.00	
G-13	Oxygen		cylinder		
G-14	Acetylene		cylinder		
Temporary facilities					
G-15	Temporary fence w/wire	H=2.0m	m	750.00	
G-16	Temporary fence w/sheet	H=2.0m	m	1,250.00	
G-17	Project signboard w/stand	1.8m×3.6m	set	16,000.00	
G-18	Project signboard w/stand	0.9m×1.8m	set	9,000.00	
House rental					
G-19	House rent	3 bed rooms (in Dirout)	month	7,000.00	
G-20	Land rent	at near Dirout site	m2/month	20.00	



Remarks:
 (1) Conditions:
 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.

H. Main Construction

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
Earth Work					
H-1	Excavation (normal soil)		m3	23.00	
H-2	Backfill		m3	26.00	Disposed material
H-3	Soil disposal		m3	30.00	
H-4	Demolition of Existing structure (brick)		m3	450.00	
H-5	Wet masonry works		m3	100.00	
H-6	Dry riprap works		m3	80.00	
H-7	Gabion box works		m3	80.00	
Concrete Work					
H-8	Form works		m2	150.00	
H-9	Re-bar works		ton	2,000.00	
H-10	Concrete casting works (15Mpa)		m3	1,450.00	
H-11	Concrete casting works (20Mpa)		m3	1,600.00	
H-12	Concrete casting works (25Mpa)		m3	1,750.00	
Asphalt Pavement Work					
H-13	Base course		m3	280.00	
H-14	Prime coat		m2	20.00	
H-15	Tack coat		m2	20.00	
H-16	As pavement		m2	150.00	
Deepwell Work					
H-17	Design of deep well system		Lot	200,000.00	
H-18	Well digging with casing, screw and filter		m	500.00	
H-19	Water pump (150m3/hr) installation(Rental)		pc · day	350.00	
H-20	Network pipe assembling		Lot	60,000.00	
H-21	Network pipe (Rental)		Day/lot	2,000.00	
H-22	Mobilization & Demobilization		Lot	200,000.00	
H-23	Operation and control of well system		Day/Lot	10,000.00	
H-24	E.Power for operation (3 Generators×400 KVA)		Day/lot	13,000.00	
Test					
H-25	Concrete compressive strength test		time	150.00	
H-26	Concrete slump test		time	60.00	
H-27	Concrete air content test		time	250.00	
H-28	Cement quality test		time	3,000.00	initial setting time, compressive strength test, flextural test/age, fineness
H-29	Specific gravity test		time	450.00	
H-30	Water absorption test		time	200.00	
H-31	Aggregate sieving distribution test		time	450.00	
H-32	Test for alkali-aggregate reaction		time	1,000.00	
H-33	Re-bar strength test		time	750.00	
H-34	Bearing capacity test for concrete pile	Ø1,000mm	time	200,000.00	

Conditions:

- 1) Above cost shall not include company's overhead expense, profit and Taxes such as VAT.

H-1

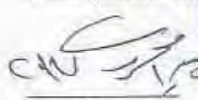
E-3-4. Unit Price List (D. Egyptian Contracting Office)

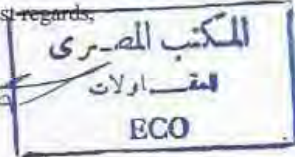
Date: January 9, 2017

To: Mr.Kadowaki

Based on your request, we are pleased to attach with our unit price hope to receive from you, please don't hesitate to contact when you are in need,

Thank you and best regards,


Saied Mahrous



G. Manager of sales and estimation section

ECO

A. Personal Fee

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
A-1	Civil Engineer	20 years experience	Month	36,000	Average
A-2	Civil Engineer	15 years experience	Month	27,000	
A-3	Civil Engineer	10 years experience	Month	18,000	
A-4	Civil Engineer	5 years experience	Month	13,000	
A-5	Architect Engineer	20 years experience	Month	36,000	
A-6	Architect Engineer	15 years experience	Month	27,000	
A-7	Architect Engineer	10 years experience	Month	18,000	
A-8	Architect Engineer	5 years experience	Month	13,000	
A-9	Mechanical Engineer	20 years experience	Month	34,000	
A-10	Mechanical Engineer	15 years experience	Month	21,000	
A-11	Mechanical Engineer	10 years experience	Month	13,000	
A-12	Mechanical Engineer	5 years experience	Month	11,000	
A-13	Electrical Engineer	20 years experience	Month	34,000	
A-14	Electrical Engineer	15 years experience	Month	21,000	
A-15	Electrical Engineer	10 years experience	Month	15,000	
A-16	Electrical Engineer	5 years experience	Month	12,000	
A-17	Surveyor		Month	9,000	
A-18	Surveyor Assistant		Month	5,000	
A-19	Draft man (CAD Operator)		Month	9,000	
A-20	Administrator	10 years experience	Month	13,000	
A-21	Administrative Secretary		Month	7,500	
A-22	Assistant Administrator		Month	6,000	
A-23	Office boy		Month	4,000	
A-24	Driver (Dump Truck, Cargo Truck)		Month	8,500	
A-25	Driver (Dump Truck, Cargo Truck)		Day	350	
A-26	Driver	Small Vehicle	Month	5,500	
A-27	Driver	Small Vehicle	Day	300	
A-28	Security guard (Watchman)	Day	Month	4,000	
A-29	Security guard (Watchman)	Night	Month	5,000	
A-30	Forman		Day	380	
A-31	Skilled labor		Day	250	
A-32	Common labor		Day	170	
A-33	Rigger		Day	300	
A-34	Re-bar fixer		Day	300	
A-35	Operator for construction equipment		Day	350	
A-36	Carpenter		Day	350	
A-37	Plasterer		Day	280	
A-38	Masonry		Day	280	
A-39	Painter		Day	280	
A-40	Welder		Day	320	
A-41	Electrician	General	Day	320	
A-42	Electrician	High Volts	Day	350	
A-43	Mechanic		Day	320	
A-44	Plumber		Day	280	

Condition:

- 1) Above costs shall include base wages, bonus, retirement allowances and legal welfare that would be borne by the employer.
- 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
- 3) Above costs shall not include holiday allowance, midnight allowance, transportation and accommodation expense.

Work condition:

Normal Working Hour 8:00 to 16:00 include one hour break
 Working day 6 days/week

المكتب المحامى
 للمقاولات

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
B-1	Excavator (Backhoe)	0.45m3	Day	2,100	
B-2	Excavator (Backhoe)	0.8m3	Day	3,000	
B-3	Excavator (Backhoe)	1.4m3	Day	4,300	
B-4	Giant Breaker	1300kg	Day	5,200	attachment for heavy equipment
B-5	Truck Crane	5t	Day	2,300	
B-6	Truck Crane	20t	Day	4,000	
B-7	Truck Crane	25t	Day	5,000	
B-8	Truck Crane	35t	Day	6,200	
B-9	Truck Crane	50t	Day	9,000	
B-10	Truck Crane	80t	Day	14,000	
B-11	Rough train Crane	20t	Day	3,300	
B-12	Rough train Crane	25t	Day	4,500	
B-13	Rough train Crane	30t	Day	6,500	
B-14	Rough train Crane	50t	Day	9,200	
B-15	Crawler crane	30 - 35t	Day	9,000	
B-16	Crawler crane	40 - 45t	Day	12,000	
B-17	Crawler crane	50 - 55t	Day	14,000	
B-18	Crawler crane	80t	Day	18,000	
B-19	Clamshell	0.8m3	Day	1,000	attachment for heavy equipment
B-20	Bulldozer	15t	Day	4,800	
B-21	Bulldozer	21t	Day	6,000	
B-22	Wheel Shovel (Loader)	2.1m3	Day	2,200	
B-23	Dump truck	4t	Day	1,000	
B-24	Dump truck	10t	Day	2,200	
B-25	Truck	4t	Day	900	
B-26	Truck	6t	Day	1,300	
B-27	Truck	11t	Day	1,500	
B-28	Truck with Crane	4t/2t	Day	2,000	
B-29	Trailer	15t	Day	3,300	
B-30	Trailer	20t	Day	4,000	
B-31	Trailer	30t	Day	4,300	
B-32	Plate Compactor	60-100kg	Day	300	
B-33	Tamping Rammer	60-100kg	Day	200	
B-34	Vibratory Roller	0.8-1.1t	Day	900	
B-35	Vibratory Roller	3 - 4t	Day	1,500	
B-36	Vibratory Roller	8 - 10t	Day	2,000	
B-37	Pneumatic tire roller	8-20t	Day	2,500	
B-38	Mixer Truck	4.4m3	Day		
B-39	Mixer Truck	5m3	Day	2,000	
B-40	Concrete Batcher Plant	30m3/h	Day	12,000	
B-41	Concrete Batcher Plant	45m3/h	Day	25,000	
B-42	Cement Silo	50t	Day	2,000	
B-43	Concrete Pump Truck	40~75m3/h	Day	2,500	
B-44	Concrete Pump Truck	90~110m3/h	Day	3,000	
B-45	Motor Grader	W3.2m, 120PS	Day	1,800	
B-46	Asphalt Finisher	Width 1.4 - 3.0m	Day	2,500	
B-47	Asphalt Finisher	Width 2.4 - 6.0m	Day	3,800	
B-48	Road Roller	10 - 12t	Day	1,500	
B-49	Tire Roller	8 - 20t	Day	2,000	
B-50	Welding Machine	300A	Day	1,000	
B-51	Vibrator	D50mm	Day	450	
B-52	Submersible Pump	6inch h=10m	Day	550	
B-53	Submersible Pump	4inch h=15m	Day	750	
B-54	Submersible Pump	2inch h=30m	Day	1,200	
B-55	Generator	300kva	Day	2,500	
B-56	Generator	200kva	Day	1,700	
B-57	Generator	150kva	Day	1,500	

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B-1

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
B-58	Generator	100kva	Day	1,000	
B-59	Generator	75kva	Day	900	
B-60	Generator	50kva	Day	800	
B-61	Generator	35kva	Day	750	
B-62	Vibrate Hammer for driving steel sheet pile	90kw, for Hat-type	Day		attachment for heavy equipment
B-63	Vibrate Hammer for driving steel sheet pile	60kw, for Hat-type	Day		attachment for heavy equipment
B-64	Re Bar Cutter	D41	Day	800	
B-65	Re Bar Bender	D41	Day	800	
B-66	Water Tank Truck	10m ³	Day	1,400	
B-67	Water jet	14.7MPa, 325ℓ/min	Day		for driving steel sheet pile
B-68	Reverse Circulation Drill	rotary table, D3,200mm, H200m	Day		for cast-in-place concrete pile
B-69	Hydraulic Press-fitting and Pulling machine	4 jacks, D1,000mm	Day		for cast-in-place concrete pile
B-70	Sedan Car	without driver & fuel	day	500	
B-71	Sedan Car	without driver & fuel	month	11,000	
B-72	Pick up Truck	without driver & fuel	day	500	
B-73	Pick up Truck	without driver & fuel	month	16,000	
B-74	4WD car	without driver & fuel	day	800	
B-75	4WD car	without driver & fuel	month	22,000	
B-76	Microbus (20 passengers)	without driver & fuel	day	1,000	
B-77	Microbus (20 passengers)	without driver & fuel	month	27,000	

Remarks:

Conditions:

- 1) Above costs shall not include fuel, operator and transportation to the site.
- 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
- 3) Normal rental hour of the equipment per day: 8 hours

C. Construction Materials-I (Civil Works)

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
C-1	Reinforcing bar	φ10	Ton	10,500.00	
C-2	Reinforcing bar (Deformed bar)	D12 - D16	Ton	11,000.00	
C-3	Reinforcing bar (Deformed bar)	D18- D25	Ton	11,000.00	
C-4	Reinforcing bar (Deformed bar)	D29 - D41	Ton	11,200.00	by order
C-5	H-beam	Size up to 200×200	Ton	14,000.00	
C-6	H-beam	H300×300 and more	Ton	14,000.00	
C-7	Maintenance fee for H-beam		Ton		
C-8	Steel angle	L50×50	Ton	12,000.00	
C-9	Steel angle	L75×75	Ton	12,000.00	
C-10	Channel	C150×75×6.5	Ton	14,000.00	
C-11	Channel	C200×80×7.5	Ton	14,000.00	
C-12	Channel	C250×90×9	Ton	14,000.00	
C-13	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	pc		
C-14	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	pc		
C-15	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	pc		
C-16	Steel wire		Kg	30.00	
C-17	Barbed wire		Kg	27.00	
C-18	Galvanized Gabion box	2×1×1m, 3.9mm wire	pc	2,000.00	
C-19	Cement (Sulfate Resisting Cement)	type V 50kg bag	Ton	850.00	
C-20	Cement (Normal Portland Cement)	type I 50kg bag	Ton	800.00	
C-21	Non Shrink Cement		kg	900.00	
C-22	Water reducing agent and setting retarder		Lit.		
C-23	Fine aggregate for concrete		m ³	70.00	
C-24	Coarse aggregate for concrete	25-40mm	m ³	120.00	
C-25	Sand for backfill	from Nearest Quarry	m ³	55.00	
C-26	Crushed stone for pavement		m ³	145.00	
C-27	Rubble Stone	Dia. 200-400mm	m ³	165.00	
C-28	Hydrated lime		kg		
C-29	Timber	50W×50H×4000L	m ³	4,000.00	
C-30	Plywood	1.22×2.44 m T=12mm	m ²	200.00	for formwork
C-31	Plywood	1.22×2.44 m T=18mm	m ²	235.00	for formwork
C-32	Plywood (coating)	1.22×2.44 m T=12mm	m ²	310.00	for formwork
C-33	Plywood (coating)	1.22×2.44 m T=18mm	m ²	355.00	for formwork
C-34	Concrete form oil		l		for formwork
C-35	Pity	1.7×2m	pc		for scaffolding
C-36	Bracing	2.7m	pc		for scaffolding
C-37	Bracing	3m	pc		for scaffolding
C-38	Jack Base		pc		for scaffolding
C-39	scaffolding board	3m×0.25m	pc		for scaffolding
C-40	Pipe	6 meter φ2.5", wall thick 1.5mm	pc		for scaffolding
C-41	steps	2 meter, width 0.5m	pc		for scaffolding
C-42	Sleeper Jack		pc		for scaffolding
C-43	Clamp		pc		for scaffolding
C-44	Caster	6 inch	pc		for scaffolding
C-45	Sandbag	48×62cm	pc	11.00	
C-46	Sandbag (1 ton)	86×86×120cm	pc	160.00	
C-47	Polyethylene sheet	t=0.15mm	m ²	17.00	
C-48	Steel plate	1.2m×2.5m, t=22mm	pc	7,300.00	
C-49	Steel plate	1.5m×3.0m, t=22mm	pc	9,000.00	
C-50	Checkered steel plate	1.2m×2.5m, t=22mm	pc		
C-51	Checkered steel plate	1.5m×3.0m, t=22mm	pc		
C-52	Oil boom	upper 30cm lower 40cm (from water surface)	m		
C-53	Bitumen		Kg	15.00	
C-54	PVC pipe	φ25	m	12.00	
C-55	PVC pipe	φ50	m	28.00	
C-56	PVC pipe	φ100	m	75.00	
C-57	PVC pipe	φ150	m	145.00	
C-58	PVC pipe	φ200	m	280.00	
C-59	PVC pipe	φ250	m	460.00	

C-1

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C. Construction Materials-1 (Civil Works)

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
C-60	Galvanized steel pipe	25A	m	75.00	
C-61	Galvanized steel pipe	50A	m	130.00	
C-62	Galvanized steel pipe	100A	m	200.00	
C-63	Galvanized steel pipe	200A	m	450.00	
C-64	Galvanized steel pipe	300A	m	700.00	
C-65	Galvanized steel Handrail	H=1.100	m		
C-66	Steel stairs	W1.2m×H110m	l		
C-67	Guardrail for Bridge (galvanized steel)	H1.2m	m		
C-68	Guardrail for Road (galvanized steel)	H1.1m	m		
C-69	Guardpipe for Road (galvanized steel)	H1.1m	m		
C-70	Grating (galvanized steel)	T-20	m2		
C-71	Nail	55mm	kg		
C-72	Footstep (steel vinyl coating)	d19mm×w300mm	pc		
C-73	Rubber shoe for bridge	Pad type, t=32mm	m2		
C-74	Rubber shoe for bridge	Pad type, t=40mm	m2		
C-75	Rubber shoe for bridge	Pad type, t=50mm	m2		
C-76	Expansion joint for bridge	steel, Δ=20mm	m2		
C-77	Expansion joint for bridge	steel, Δ=35mm	m2		
C-78	Anchor rod for bridge	fixed, φ32	pc		
C-79	Anchor rod for bridge	movable, φ32	pc		
C-80	Dowell bar	φ28, L=700mm	pc	145.00	
C-81	Dowell bar cap	φ28	pc	30.00	
C-82	Water stop (PVC)	w230mm	m	240.00	
C-83	Expansion joint filler	Rubber, t=20mm	m2	500.00	
C-84	Geotextile	nylon + polyester, t=0.5mm	m2	35.00	
C-85	Water gauge	SUS, W130mm	ny		

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Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V./
- 2) Above costs shall include cost of transportation to the Dirout site.

D. Construction Materials-2 (Building Works)

1/2

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-1	Oil paint		Lit.	60.00	
D-2	Emulsion paint		Lit.	40.00	
D-3	Acrylics paint		Lit.	55.00	
D-4	Vinyl paint		Lit.	50.00	
D-5	Emulsion putty		Lit.	33.00	
D-6	Oil putty		Lit.	33.00	
D-7	Brick	200×100×60	1000pc	1,100.00	
D-8	Concrete block	150×200×400	1000pc	10,900.00	
D-9	Asphalt water proofing sheet		m ²	85.00	
D-10	Roof drain	for φ100mm, PVC	m	200.00	
D-11	Polystyrene form	t=50mm	m ²	125.00	
D-12	Common glass	t=4mm	m ²	90.00	
D-13	Glass containing a net	t=6.8mm	m ²	200.00	
D-14	Stainless steel hinge		pc	125.00	
D-15	Door lock		pc	280.00	
D-16	Door closer		pc	550.00	
D-17	Aluminum window	1500×1000	m ²	2,500.00	
D-18	Aluminum louver	1000×500	m ²	2,800.00	
D-19	Steel door	2000×2500	m ²	30,000.00	
D-20	Wooden door	600×2000	pc	4,000.00	
D-21	Ceramic tile		m ²	180.00	
D-22	Terrazzo tile		m ²	120.00	
D-23	Marble stone		m ²	900.00	
D-24	Cement tile	200×200×20	m ²	100.00	shortage
D-25	P-Tile	300×300×4mm	m ²	140.00	
D-26	Gypsum board	t=12	m ²	150.00	
D-27	Cement board	t=6	m ²	135.00	
D-28	Corner bead	t=9mm	m		
D-29	Ceiling access hatch	□1600mm	pc	350.00	
D-30	Electric wire	2mm ² -2C	m	7.00	
D-31	Electric wire	2mm ² -3C	m	9.00	
D-32	Electric wire	3.5mm ² -2C	m	11.00	
D-33	Electric wire	3.5mm ² -3C	m	13.00	
D-34	Electric wire	3.5mm ² -4C	m	24.00	
D-35	Electric wire	5.5mm ² -2C	m	27.00	
D-36	Electric wire	5.5mm ² -3C	m	38.00	
D-37	Electric wire	5.5mm ² -4C	m	55.00	
D-38	Electric wire	8mm ² -3C	m	60.00	
D-39	Electric wire	14mm ² -3C	m	65.00	
D-40	Electric wire	22mm ² -3C	m	150.00	
D-41	Electric wire	30mm ² -3C	m	170.00	
D-42	Electric wire	38mm ² -3C	m	200.00	
D-43	Electric conduit pipe	φ20	m	30.00	
D-44	Electric conduit pipe	φ50	m	45.00	
D-45	Electric conduit pipe	φ100	m	67.00	
D-46	Electric conduit pipe	φ150	m	80.00	
D-47	Switch	AC300V 10A	pc		
D-48	Socket outlet	AC250V 2P-13A	pc		
D-49	Pull box	100×100×100	pc	100.00	
D-50	Breaker	MCB 4P 50AF/30AT	pc	710.00	
D-51	Breaker	E1 B 2P 50AF/20AT	pc	6,200.00	
D-52	Power distribution board	MCB 2P 50AF/20AT x14	pc	5,700.00	
D-53	Fluorescent light (Ceiling type)	20W×4 (Ceiling)	set	630.00	
D-54	Fluorescent light (Ceiling mounted type)	40W×2 (Ceiling)	set	700.00	
D-55	Fluorescent light (Ceiling mounted type)	40W×1 (Ceiling)	set	240.00	
D-56	Fluorescent light (Wall mounted type)	18W×1 (Wall)	set	210.00	
D-57	Incandescent lamp (Ceiling mounted type)	60W×1 (Ceiling)	set	250.00	
D-58	Incandescent lamp (Waterproof type)	60W×1 (Wall)	set	440.00	
D-59	Ventilation fan	400CMHx14mmAp	set	1,000.00	
D-60	Ventilation fan	580CMHx7mmAp	set	12,700.00	

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D. Construction Materials-2 (Building Works)

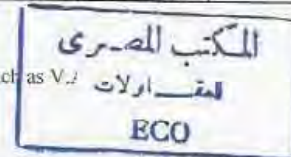
2/2

No.	Description	Specification	Unit	Unit Price (LE)	Remarks
D-61	Air-conditioner	5500kcal/h	set	16,100.00	
D-62	Washstand		set		
D-63	Sink cabinet		set	10,000.00	
D-64	Transformer (3-phase)	200KVA	set		
D-65	Transformer (3-phase)	100KVA	set		
D-66	Caulking material		kg	130.00	
D-67	Abrasive paper		sh	8.00	
D-68	Coated steel pipe	6.4mm	m		
D-69	Coated steel pipe	15.9mm	m		
D-70	Slnee valve	32mm	pc	150.00	
D-71	Gas cock	GC25	pc	3,000.00	
D-72	Screw cock	GC25	pc		
D-73	Drain plate	COA100	pc		
D-74	Western style toilet bowl	Lowtank type	pc	2,000.00	
D-75	Water faucet		pc	1,500.00	
D-76	Sewage tank	450×450×600	pc	5,000.00	
D-77	Valve	40A	pc	300.00	
D-78	Soak pit	1200φ×2,600mm	pc	15,000.00	
D-79	Range food	400 m ³ /h	pc		
D-80	Ventilation fan (Ceiling)	550CMH×7mA	pc	4,500.00	
D-81	Ventilation fan (Wall)	400CMH×7mA	pc	5,000.00	
D-82	Fan for pipe	100φ 100 m ³ /h	pc		
D-83	Air filter	500×1000×25	pc	600.00	
D-84	Air filter	500×1500×25	pc	750.00	
D-85	Spiral duct	150φ	pc		
D-86	Bendcap	150φ	pc		
D-87	Assembling equipment for gas cylinder		set	200.00	
D-88	Thermostat		pc	200.00	
D-89	Heat resistance cable	1P 1.2—4C	m		
D-90	Concrete box	Octagonal 75mm w/coverplate	pc		
D-91	Outlet box	square w/coverplate	pc	150.00	
D-92	Outlet box	3P 15A	pc	150.00	
D-93	Cover plate		pc		
D-94	Distribution board		pc	4,300.00	
D-95	Firealarm reception board	5-wire circuit	pc	4,300.00	
D-96	Smoke detector	Light sensing type	pc	550.00	
D-97	Heat detector	Constant temperature type	pc	670.00	
D-98	General panel	w/lamp bell	pc	6,000.00	
D-99	Mercury lamp material		set	150.00	
D-100	Cable	vv3c-5.5	m		
D-101	Fluorescent light (Ceiling type)	F61WP	pc	230.00	
D-102	Flexible pipe	C25	m	10.00	
D-103	Heat resistance cable	1P 1.2mm—5P	m	30.00	
D-104	Conductor	60sq	m	390.00	
D-105	Supporting material	for electric cable	pc	5.00	
D-106	Line-connecting terminal	60sq	pc	50.00	
D-107	Grounding rod	14×1500	pc		
D-108	Grounding copper plate	1.5×900	pc	800.00	
D-109	Indication plate		pc	230.00	
D-110	Earthing terminal board	1P+2	pc	990.00	
D-111	Vinyl raceway	VE(28)	m		
D-112	Vinyl electric wire	5.5sq	m	13.00	
D-113	Vinyl electric wire	50sq	m	13.00	
D-114	Conduit	VEP(50)	m	16.00	
D-115	Conduit	CP(31)	m	40.00	
D-116	Normal connecting bend	CP(31)	m	41.00	
D-117	Flexible metal conduit		m	67.00	
D-118	Box connector		pc	35.00	
D-119	Pipe connector		pc	50.00	
D-120	Pull box	300×300×200	pc	38.00	
D-121	Handhall cap	Φ600	pc	1,250.00	

Remarks:

(1) Conditions:

- Above costs shall not include company's overhead expense, profit and taxes such as V. لبنان
- Above costs shall include cost of transportation to the Dirout site.



D-2

E. Transportation/Customs Clearance

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
E-1	Port discharge fee	General Cargo	F/T	160.00	
E-2	Customs clearance	General Cargo	F/T	60.00	
E-3	Transportation cost	General Cargo (Alexandria to Dirout)	F/T	500.00	
E-4	Transportation cost	General Cargo (Cairo to Dirout)	F/T	350.00	
E-5	Transportation cost	for heavy equipment (Cairo to Dirout), 30t	unit	14,000.00	
E-6	Transportation cost	for heavy equipment (Cairo to Dirout), 40t	unit	13,000.00	
E-7	Transportation cost	for heavy equipment (Cairo to Dirout), 50t	unit	16,000.00	
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Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.;
- 2) Above costs shall indicate the transportation cost from Alexandria to Site.

G. Temporary Building & Works

1/1

No.	Description	Specification	Unit	Unit Price (LE)	Remarks	
Public Fee						
G-1	Water charge	Connection	time	20,000.00		
G-2	Water charge	Basic charge	month			
G-3	Water charge	Usage fee	m ³	12.00		
G-4	Telephone charge	Registration	time	500.00		
G-5	Telephone charge	Basic charge	month	45.00		
G-6	Telephone charge	Usage fee	min	1.00		
G-7	Electricity charge	Connection	time	35,000.00		
G-8	Electricity charge	Basic charge	month			
G-9	Electricity charge	Usage fee	Kwh	2.00	0.25 - 2 EGP/kw	
G-10	Gasoline		Lit	3.50	1 lit 95A = 6.25 EGP	
G-11	Diesel		Lit	2.60		
G-12	Lubricating oil		Lit	100.00		
G-13	Oxygen		cylinder	1,750.00		
G-14	Acetylene		cylinder	2,100.00		
Temporary facilities						
G-15	Temporary fence w/wire	H=2.0m	m	650.00		
G-16	Temporary fence w/sheet	H=2.0m	m	900.00		
G-17	Project signboard w/stand	1.8m×3.6m	set	20,000.00		
G-18	Project signboard w/stand	0.9m×1.8m	set	6,000.00		
House rental						
G-19	House rent	3 bed rooms (in Dirout)	month	5,500.00		
G-20	Land rent	at near Dirout site	m ² /month	10.00		
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Remarks:

(1) Conditions:

f) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.

G-1

H. Main Construction

No.	Description	Specification	Unit	Unit Price (L.E)	Remarks
Earth Work					
H-1	Excavation (normal soil)		m ³	23.00	
H-2	Backfill	using excavated material	m ³	22.00	
H-3	Soil disposal		m ³	28.00	
H-4	Demolition of Existing structure (brick)		m ³	180.00	
H-5	Wet masonry works		m ³	820.00	
H-6	Dry riprap works		m ³	350.00	
H-7	Gabion box works		m ³	750.00	
Concrete Work					
H-8	Form works		m ²		
H-9	Re-bar works		ton	2,000.00	
H-10	Concrete casting works (15Mpa)	without steel RFT	m ³	750.00	
H-11	Concrete casting works (20Mpa)	without steel RFT	m ³	850.00	
H-12	Concrete casting works (25Mpa)	without steel RFT	m ³	1,100.00	
Asphalt Pavement Work					
H-13	Base course		m ³	160.00	m/t and manpower
H-14	Prime coat		m ²	20.00	m/t and manpower
H-15	Tack coat		m ²	20.00	m/t and manpower
H-16	As pavement	5 cm thick.	m ²	175.00	m/t and manpower
Deepwell Work					
H-17	Design of deep well system		Lot	250,000.00	
H-18	Well digging with casing, screw and filter		m	3,650.00	
H-19	Water pump (150m ³ /hr) installation(Rental)		pc* day	750.00	
H-20	Network pipe assembling		Lot	50,000.00	
H-21	Network pipe (Rental)		Day/lot	1,000.00	
H-22	Mobilization & Demobilization		Lot	80,000.00	
H-23	Operation and control of well system		Day/Lot	10,000.00	
H-24	E.Power for operation (3 Generators=400 KVA)		Day/lot	11,200.00	
Test					
H-25	Concrete compressive strength test		time	175.00	
H-26	Concrete slump test		time	145.00	
H-27	Concrete air content test		time		
H-28	Cement quality test		time	300.00	
H-29	Specific gravity test		time	150.00	
H-30	Water absorption test		time	240.00	
H-31	Aggregate sieving distribution test		time	200.00	
H-32	Test for alkali-aggregate reaction		time		
H-33	Re-bar strength test		time	550.00	
H-34	Bearing capacity test for concrete pile		time	250,000.00	

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Conditions:
 1) Above cost shall not include company's overhead expense, profit and Taxes such as VAT.

E-3-5. Unit Price List (E. Orascom construction Limited)

A. Personal Fee

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
A-1	Civil Engineer	20 years experience	Month	\$4,500.00	
A-2	Civil Engineer	15 years experience	Month	\$3,150.00	
A-3	Civil Engineer	10 years experience	Month	\$2,700.00	
A-4	Civil Engineer	5 years experience	Month	\$1,462.50	
A-5	Architect Engineer	20 years experience	Month	\$4,500.00	
A-6	Architect Engineer	15 years experience	Month	\$3,150.00	
A-7	Architect Engineer	10 years experience	Month	\$2,700.00	
A-8	Architect Engineer	5 years experience	Month	\$1,462.50	
A-9	Mechanical Engineer	20 years experience	Month	\$4,950.00	
A-10	Mechanical Engineer	15 years experience	Month	\$3,487.50	
A-11	Mechanical Engineer	10 years experience	Month	\$3,037.50	
A-12	Mechanical Engineer	5 years experience	Month	\$1,687.50	
A-13	Electrical Engineer	20 years experience	Month	\$4,950.00	
A-14	Electrical Engineer	15 years experience	Month	\$3,487.50	
A-15	Electrical Engineer	10 years experience	Month	\$3,037.50	
A-16	Electrical Engineer	5 years experience	Month	\$1,687.50	
A-17	Surveyor		Month	\$1,125.00	
A-18	Surveyor Assistant		Month	\$675.00	
A-19	Draft man (CAD Operator)		Month	\$922.50	
A-20	Administrator	10 years experience	Month	\$1,687.50	
A-21	Administrative Secretary		Month	\$1,350.00	
A-22	Assistant Administrator		Month	\$1,181.25	
A-23	Office boy		Month	\$393.75	
A-24	Driver (Dump Truck, Cargo Truck)		Month	\$795.67	
A-25	Driver (Dump Truck, Cargo Truck)		Day	\$30.60	
A-26	Driver	Small Vehicle	Month	\$506.25	
A-27	Driver	Small Vehicle	Day	\$19.47	
A-28	Security guard (Watchman)	Day	Month	\$393.75	
A-29	Security guard (Watchman)	Night	Month	\$433.13	
A-30	Forman		Day	\$28.10	
A-31	Skilled labor		Day	\$22.74	
A-32	Common labor		Day	\$13.36	
A-33	Rigger		Day	\$14.34	
A-34	Re-bar fixer		Day	\$22.74	
A-35	Operator for construction equipment		Day		
A-36	Carpenter		Day	\$22.74	
A-37	Plasterer		Day	\$24.17	
A-38	Masonry		Day	\$24.17	
A-39	Painter		Day	\$18.45	
A-40	Welder		Day	\$18.35	
A-41	Electrician	General	Day	\$21.36	
A-42	Electrician	High Volts	Day		
A-43	Mechanic		Day	\$21.36	
A-44	Plumber		Day	\$21.36	

Condition;

- 1) Above costs shall include base wages, bonus, retirement allowances and legal welfares that would be bone by the employer.
- 2) Above costs shall not include site expense, company's overhead expense, profit and taxes such as V.A.T.
- 3) Above costs shall not include holiday allowance, midnight allowance, transportation and accommodation expense..

Work condition;

Normal Working Hour 8:00 AM to 5:00 PM , include one hour break

Working day 6 days/week

B. Equipment Hire

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
B-1	Excavator (Backhoe)	0.45m3	Day	\$147.77	
B-2	Excavator (Backhoe)	0.8m3	Day	\$259.28	
B-3	Excavator (Backhoe)	1.4m3	Day	\$447.19	
B-4	Giant Breaker	1300kg	Day		attachment for heavy equipment
B-5	Truck Crane	5t	Day		
B-6	Truck Crane	20t	Day		
B-7	Truck Crane	25t	Day		
B-8	Truck Crane	35t	Day		
B-9	Truck Crane	50t	Day		
B-10	Truck Crane	80t	Day		
B-11	Rough terrain crane	20t	Day		
B-12	Rough terrain crane	25t	Day	\$402.95	
B-13	Rough terrain crane	30t	Day	\$444.20	
B-14	Rough terrain crane	50t	Day	\$724.13	
B-15	Crawler crane	30 - 35t	Day		
B-16	Crawler crane	40 - 45t	Day		
B-17	Crawler crane	50 - 55t	Day		
B-18	Crawler crane	80t	Day	\$1,717.22	
B-19	Clamshell	0.8m3	Day		attachment for heavy equipment
B-20	Bulldozer	15t	Day	\$489.21	
B-21	Bulldozer	21t	Day	\$781.03	
B-22	Wheel Shovel (Loader)	2.1m3	Day	\$349.06	
B-23	Dump truck	4t	Day		
B-24	Dump truck	10t	Day	\$175.57	
B-25	Truck	4t	Day	\$54.33	
B-26	Truck	6t	Day	\$145.09	
B-27	Truck	11t	Day		
B-28	Truck with Crane	4t/2t	Day		
B-29	Trailer	15t	Day		
B-30	Trailer	20t	Day		
B-31	Trailer	30t	Day		
B-32	Plate Compactor	60-100kg	Day	\$19.23	
B-33	Tamping Rammer	60-100kg	Day		
B-34	Vibratory Roller	0.8-1.1t	Day		
B-35	Vibratory Roller	3 - 4t	Day		
B-36	Vibratory Roller	8 - 10t	Day	\$107.54	
B-37	Pneumatic tire roller	8-20t	Day	\$165.98	
B-38	Mixer Truck	4.4m3	Day		
B-39	Mixer Truck	5m3	Day	\$142.64	
B-40	Concrete Batch Plant	30m3/h	Day		
B-41	Concrete Batch Plant	45m3/h	Day		
B-42	Cement Silo	50t	Day		
B-43	Concrete Pump Truck	40~75m3/h	Day		
B-44	Concrete Pump Truck	90~110m3/h	Day	\$860.33	
B-45	Motor Grader	W3.2m, 120PS	Day	\$1,158.55	
B-46	Asphalt Finisher	Width 1.4 - 3.0m	Day		
B-47	Asphalt Finisher	Width 2.4 - 6.0m	Day	\$413.00	
B-48	Road Roller	10 - 12t	Day		
B-49	Tire Roller	8 - 20t	Day	\$165.98	
B-50	Welding Machine	300A	Day	\$13.25	
B-51	Vibrator	D50mm	Day	\$15.77	
B-52	Submersible Pump	6inch h=10m	Day		
B-53	Submersible Pump	4inch h=15m	Day		
B-54	Submersible Pump	2inch h=30m	Day		
B-55	Generator	300kva	Day	\$88.88	
B-56	Generator	200kva	Day	\$63.83	
B-57	Generator	150kva	Day	\$49.07	
B-58	Generator	100kva	Day	\$40.10	
B-59	Generator	75kva	Day	\$40.10	
B-60	Generator	50kva	Day	\$26.97	
B-61	Generator	35kva	Day	\$26.97	

C. Construction Materials-1 (Cilil Works)

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
C-1	Reinforcing bar	φ10	Ton	\$829.69	
C-2	Reinforcing bar (Deformed bar)	D12 - D16	Ton	\$829.69	
C-3	Reinforcing bar (Deformed bar)	D18- D25	Ton	\$829.69	
C-4	Reinforcing bar (Deformed bar)	D29 - D41	Ton	\$829.69	
C-5	H-beam	Size up to 200×200	Ton		
C-6	H-beam	H300×300 and more	Ton		
C-7	Maintenance fee for H-beam		Ton		
C-8	Steel angle	L50×50	Ton		
C-9	Steel angle	L75×75	Ton		
C-10	Channel	C150×75×6.5	Ton		
C-11	Channel	C200×80×7.5	Ton		
C-12	Channel	C250×90×9	Ton		
C-13	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	pc		
C-14	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	pc		
C-15	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	pc		
C-16	Steel wire		Kg		
C-17	Barbed wire		Kg		
C-18	Galvanized Gabion box	2×1×1m, 3.9mm wire	pc		
C-19	Cement (Sulfate Resisting Cement)	type V 50kg bag	Ton	\$81.56	
C-20	Cement (Nomal Portland Cement)	type I 50kg bag	Ton	\$76.88	
C-21	Non Shrink Cement		kg	\$0.33	
C-22	Water reducing agent and setting retarder		Lit.		
C-23	Fine aggregate for concrete		m3	\$3.75	
C-24	Coarse aggregate for concrete	25-40mm	m3	\$8.91	
C-25	Sand for backfill	from Nearest Quarry	m3	\$3.28	
C-26	Crushed stone for pavement		m3		
C-27	Rubble Stone	Dia. 200-400mm	m3		
C-28	Hydrated lime		kg		
C-29	Timber	50W×50H×4000L	m3		
C-30	Plywood	1.22×2.44 m T=12mm	m2		for formwork
C-31	Plywood	1.22×2.44 m T=18mm	m2		for formwork
C-32	Plywood (coating)	1.22×2.44 m T=12mm	m2		for formwork
C-33	Plywood (coating)	1.22×2.44 m T=18mm	m2		for formwork
C-34	Concrete form oil		ℓ		for formwork
C-35	Pitty	1.7×2m	pc		for scaffolding
C-36	Bracing	2.7m	pc		for scaffolding
C-37	Bracing	3m	pc		for scaffolding
C-38	Jack Base		pc		for scaffolding
C-39	scaffolding board	3m×0.25m	pc		for scaffolding
C-40	Pipe	6 meter φ2.5", wall thick 1.5mm	pc		for scaffolding
C-41	steps	2 meter, wdth 0.5m	pc		for scaffolding
C-42	Sleeper Jack		pc		for scaffolding
C-43	Clamp		pc		for scaffolding
C-44	Caster	6 inch	pc		for scaffolding
C-45	Sandbag	48×62cm	pc		
C-46	Sandbag (1 ton)	86×86×120cm	pc		
C-47	Polyethylene sheet	t=0.15mm	m2	\$0.84	
C-48	Steel plate	1.2m×2.5m, t=22mm	pc		
C-49	Steel plate	1.5m×3.0m, t=22mm	pc		
C-50	Checkered steel plate	1.2m×2.5m, t=22mm	pc		
C-51	Checkered steel plate	1.5m×3.0m, t=22mm	pc		
C-52	Oil boom	upper 30cm×lower 40cm (from water surface)	m		
C-53	Bitumen		Kg		
C-54	PVC pipe	φ25	m	\$2.34	
C-55	PVC pipe	φ50	m	\$3.84	
C-56	PVC pipe	φ100	m	\$9.84	
C-57	PVC pipe	φ150	m	\$17.34	
C-58	PVC pipe	φ200	m	\$25.31	
C-59	PVC pipe	φ250	m	\$38.44	
C-60	Galvanized steel pipe	25A	m	\$20.63	
C-61	Galvanized steel pipe	50A	m	\$42.19	

C. Construction Materials-1 (Cilil Works)

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
C-62	Galvanized steel pipe	100A	m	\$75.00	
C-63	Galvanized steel pipe	200A	m	\$253.13	
C-64	Galvanized steel pipe	300A	m	\$515.63	
C-65	Galvanized steel Handrail	H=1.100	m		
C-66	Steel stairs	W1.2m×H10m	t		
C-67	Guardrail for Bridge (galvanized steel)	H1.2m	m		
C-68	Guardrail for Road (galvanized steel)	H1.1m	m		
C-69	Guardpipe for Road (galvanized steel)	H1.1m	m		
C-70	Grating (galvanized steel)	T-20	m ²		
C-71	Nail	55mm	kg		
C-72	Footstep (steel vinyl coating)	d19mm×w300mm	pc		
C-73	Rubber shoe for bridge	Pad type, t=32mm	m ²		
C-74	Rubber shoe for bridge	Pad type, t=40mm	m ²		
C-75	Rubber shoe for bridge	Pad type, t=50mm	m ²		
C-76	Expansion joint for bridge	steel, ∠=20mm	m ²		
C-77	Expansion joint for bridge	steel, ∠=35mm	m ²		
C-78	Anchor rod for bridge	fixed, φ32	pc		
C-79	Anchor rod for bridge	movable, φ32	pc		
C-80	Dowell bar	φ28, L=700mm	pc		
C-81	Dowell bar cap	φ28	pc		
C-82	Water stop (PVC)	w230mm	m	\$4.22	
C-83	Expansion joint filler	Rubber, t=20mm	m ²	\$112.50	
C-84	Geotextile	nylon · polyester, t=0.5mm	m ²		
C-85	Water gauge	SUS, W130mm	m		

Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
- 2) Above costs shall include cost of transportation to the Dirout site.

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
D-1	Oil paint		Lit.	\$6.65	
D-2	Emulsion paint		Lit.	\$4.11	
D-3	Acrylics paint		Lit.	\$4.64	
D-4	Vinyl paint		Lit.		
D-5	Emulsion putty		Lit.	\$0.70	
D-6	Oil putty		Lit.	\$0.84	
D-7	Brick	200×100×60	1000pc	\$133.79	
D-8	Concrete block	150×200×400	1000pc	\$494.74	
D-9	Asphalt water proofing sheet		m ²		
D-10	Roof drain	for φ100mm, PVC	m ²	\$56.25	Unit pc
D-11	Polystyrene form	t=50mm	m ²	\$8.04	
D-12	Common glass	t=4mm	m ²	\$72.42	
D-13	Glass containing a net	t=6.8mm	m ²	\$76.04	
D-14	Stainless steel hinge		pc	\$27.00	
D-15	Door lock		pc	\$324.00	
D-16	Door closer		pc	\$167.40	
D-17	Aluminum window	1500×1000	m ²		
D-18	Aluminum louver	1000×500	m ²		
D-19	Steel door	2000×2500	m ²	\$424.97	
D-20	Wooden door	600×2000	pc	\$391.80	
D-21	Ceramic tile		m ²	\$10.48	30*30*2 cm - local type
D-22	Terrazzo tile		m ²	\$7.08	25x25x2.5 cm
D-23	Marble stone		m ²	\$89.10	local marble
D-24	Cement tile	200×200×20	m ²	\$6.40	
D-25	P-Tile	300×300×4mm	m ²	\$34.06	
D-26	Gypsum board	t=12	m ²	\$33.96	
D-27	Cement board	t=6	m ²		
D-28	Corner bead	t=9mm	m	\$0.94	galvanized steel
D-29	Ceiling access hatch	□600mm	pc	\$226.88	Aluminum Access Panel
D-30	Electric wire	2mm ² -2C	m	\$3.57	
D-31	Electric wire	2mm ² -3C	m	\$4.30	
D-32	Electric wire	3.5mm ² -2C	m	\$3.74	
D-33	Electric wire	3.5mm ² -3C	m	\$4.47	
D-34	Electric wire	3.5mm ² -4C	m	\$5.30	
D-35	Electric wire	5.5mm ² -2C	m	\$5.73	
D-36	Electric wire	5.5mm ² -3C	m	\$5.80	
D-37	Electric wire	5.5mm ² -4C	m	\$7.27	
D-38	Electric wire	8mm ² -3C	m	\$7.84	
D-39	Electric wire	14mm ² -3C	m	\$10.77	
D-40	Electric wire	22mm ² -3C	m	\$20.02	
D-41	Electric wire	30mm ² -3C	m	\$25.24	
D-42	Electric wire	38mm ² -3C	m	\$25.41	
D-43	Electric conduit pipe	φ20	m	\$2.22	
D-44	Electric conduit pipe	φ50	m	\$3.82	
D-45	Electric conduit pipe	φ100	m	\$9.51	
D-46	Electric conduit pipe	φ150	m	\$16.92	
D-47	Switch	AC300V 10A	pc	\$12.07	
D-48	Socket outlet	AC250V 2P-13A	pc	\$11.23	
D-49	Pull box	100×100×100	pc	\$13.26	
D-50	Breaker	MCB 4P 50AF/30AT	pc	\$55.43	
D-51	Breaker	ELB 2P 50AF/20AT	pc	\$28.58	
D-52	Power distribution board	MCB 2P 50AF/20AT x14	pc	\$757.03	
D-53	Fluorescent light (Ceiling type)	20W×4 (Ceiling)	set	\$160.78	
D-54	Fluorescent light (Ceiling mounted type)	40W×2 (Ceiling)	set	\$100.59	
D-55	Fluorescent light (Ceiling mounted type)	40W×1 (Ceiling)	set	\$60.84	
D-56	Fluorescent light (Wall mounted type)	18W×1 (Wall)	set	\$43.78	
D-57	Incandescent lamp (Ceiling mounted type)	60W×1 (Ceiling)	set	\$68.91	
D-58	Incandescent lamp (Waterproof type)	60W×1 (Wall)	set	\$68.91	
D-59	Ventilation fan	400CMHx14mmAp	set	\$112.50	
D-60	Ventilation fan	580CMHx7mmAp	set	\$93.75	
D-61	Air-conditioner	5500kcal/h	set	\$1,406.25	
D-62	Washstand		set		
D-63	Sink cabinet		set		

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
D-64	Transformer (3-phase)	200KVA	set	\$15,257.81	
D-65	Transformer (3-phase)	100KVA	set	\$12,112.50	
D-66	Caulking material		kg		
D-67	Abrasive paper		sh		
D-68	Coated steel pipe	6.4mm	m	\$3.28	Diameter
D-69	Coated steel pipe	15.9mm	m	\$4.69	Diameter
D-70	Slice valve	32mm	pc	\$23.44	
D-71	Gass cock	GC25	pc		
D-72	Screw cock	GC25	pc		
D-73	Drain plate	COA100	pc	\$93.75	
D-74	Western style toilet bowl	Lowtank type	pc	\$375.00	
D-75	Water faucet		pc	\$206.25	
D-76	Sewage tank	450×450×600	pc	\$196.88	Inspection Chamber
D-77	Valve	40A	pc	\$18.75	
D-78	Soak pit	1200φ×2,600mm	pc		
D-79	Range food	400 m ³ /h	pc		
D-80	Ventilation fan (Ceiling)	550CMH×7mA	pc	\$225.00	
D-81	Ventilation fan (Wall)	400CMH×7mA	pc	\$187.50	
D-82	Fan for pipe	100φ 100 m ³ /h	pc	\$75.00	
D-83	Air filter	500×1000×25	pc	\$93.75	
D-84	Air filter	500×1500×25	pc	\$187.50	
D-85	Spiral duct	150φ	pc	\$46.88	
D-86	Bendcap	150φ	pc	\$70.31	
D-87	Assembling equipment for gas cylinder		set	\$187.50	
D-88	Thermostat		pc	\$60.94	
D-89	Heat resistance cable	HP 1.2—4C	m	\$46.88	
D-90	Concrete box	Octagonal 75mm w/coverplate	pc		
D-91	Outlet box	square w/coverplate	pc	\$13.16	
D-92	Outlet box	3P 15A	pc	\$8.33	
D-93	Cover plate		pc	\$4.88	
D-94	Distribution board		pc	\$757.03	
D-95	Firealarm reception board	5-wire circuit	pc	\$10,212.56	
D-96	Smoke detector	Light sensing type	pc	\$73.50	
D-97	Heat detector	Constant temperature type	pc	\$73.50	
D-98	General panel	w/lamp,bell	pc	\$4,998.00	
D-99	Mercury lamp material		set	\$16.08	
D-100	Cable	vv3c-5.5	m	\$5.80	
D-101	Fluorescent light (Ceiling type)	F61WP	pc	\$68.91	
D-102	Flexible pipe	C25	m	\$5.67	
D-103	Heat resistance cable	HP 1.2mm—5P	m	\$5.78	
D-104	Conductor	60sq	m	\$12.66	
D-105	Supporting material	for electric cable	pc	\$0.49	
D-106	Line-connecting terminal	60sq	pc	\$2.98	
D-107	Grounding rod	14×1500	pc	\$73.13	
D-108	Grounding copper plate	1.5t×900	pc	\$66.56	
D-109	Indication plate		pc	\$67.03	
D-110	Earthing terminal board	1P+2	pc	\$1,054.69	
D-111	Vinyl raceway	VE(28)	m	\$4.10	
D-112	Vinyl electric wire	5.5sq	m	\$2.27	
D-113	Vinyl electric wire	50sq	m	\$6.47	
D-114	Conduit	FEP(50)	m	\$10.67	
D-115	Conduit	CP(31)	m	\$4.44	
D-116	Normal connecting bend	CP(31)	m	\$3.12	
D-117	Flexible metal conduit		m	\$11.19	
D-118	Box connector		pc	\$13.59	
D-119	Pipe connector		pc	\$8.11	
D-120	Pull box	300×300×200	pc	\$23.63	
D-121	Handhall cap	Φ600	pc	\$293.91	

D. Construction Materials-2 (Building Works)

No.	Description	Specification	Unit	Unit Price (\$)	Remarks

Remarks:

(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
- 2) Above costs shall include cost of transportation to the Dirout site.

E. Transportation/Customs Clearance

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
E-1	Port discharge fee	General Cargo	F/T	Variable	
E-2	Customs clearance	General Cargo	F/T		
E-3	Transportation cost	General Cargo (Alexandria to Dirout)	F/T	\$31.88	
E-4	Transportation cost	General Cargo (Cairo to Dirout)	F/T	\$28.13	
E-5	Transportation cost	for heavy equipment (Cairo to Dirout), 30t	unit	\$1,125.00	
E-6	Transportation cost	for heavy equipment (Cairo to Dirout), 40t	unit	\$1,406.25	
E-7	Transportation cost	for heavy equipment (Cairo to Dirout), 50t	unit	\$1,406.25	

Remarks:
(1) Conditions:

- 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
- 2) Above costs shall indicate the transpotation cost from Alexandria to Site.

F. Office Supplies

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
F-1	Copy machine		set	\$24,375.00	xerox 4127
F-2	Computer		set	\$1,462.50	
F-3	Printer	Laser	set	\$365.63	HP LaserJet P2035
F-4	Printer	Color ink	set	\$182.81	
F-5	Telephone		set	\$281.25	
F-6	Digital camera		set	\$468.75	
F-7	Television	24 inch	set	\$328.13	
F-8	Air-conditioner	1500kw	set		
F-9	Living room furniture set	6 chairs	set	\$1,359.38	
F-10	Table for meeting	6 chairs	set	\$1,125.00	180*90 cm table
F-11	Table for dining		set	\$468.75	90*90 cm table
F-12	Desk		set	\$656.25	desk 180*175 cm with sideMDF + HPL veneer
F-13	Chair		set	\$281.25	
F-14	White board	2.5x1.0m	set	\$93.75	
F-15	Locker		set	\$234.38	180*40*30 cm - metal
F-16	Bookshelf	1.5x1.5m	set	\$234.38	

Remarks:

- (1) Conditions:
 - 1) Above costs shall not include company's overhead expense, profit and taxes such as V.A.T.
 - 2) Above costs shall include cost of transportation to the Dirout sites.

H. Main Construction

No.	Description	Specification	Unit	Unit Price (\$)	Remarks
	Earth Work				
H-1	Excavation (normal soil)		m3	\$2.78	
H-2	Backfill		m3	\$12.80	
H-3	Soil disposal		m3		Included in H1
H-4	Demolition of Existing structure (brick)		m3	\$11.25	
H-5	Wet masonry works		m3		
H-6	Dry riprap works		m3		
H-7	Gabion box works		m3		
	Concrete Work				
H-8	Form works		m2	\$19.50	
H-9	Re-bar works		ton		
H-10	Concrete casting works (15Mpa)		m3	\$94.58	
H-11	Concrete casting works (20Mpa)		m3		
H-12	Concrete casting works (25Mpa)		m3	\$117.37	
	Asphalt Pavement Work				
H-13	Base course		m3		
H-14	Prime coat		m2		
H-15	Tack coat		m2		
H-16	As pavement		m2		
	Deepwell Work				
H-17	Design of deep well system		Lot		
H-18	Well digging with casing, screw and filter		m		
H-19	Water pump (150m3/hr) installation(Rental)		pc * day		
H-20	Network pipe assembling		Lot		
H-21	Network pipe (Rental)		Day/lot		
H-22	Mobilization & Demobilization		Lot		
H-23	Operation and control of well system		Day/Lot		
H-24	E.Power for operation (3 Generators×400 KVA)		Day/lot		
	Test				
H-25	Concrete compressive strength test		time		
H-26	Concrete slump test		time		
H-27	Concrete air content test		time		
H-28	Cement quality test		time		
H-29	Specific gravity test		time		
H-30	Water absorption test		time		
H-31	Aggregate sieving distribution test		time		
H-32	Test for alkali-aggregate reaction		time		
H-33	Re-bar strength test		time		
H-34	Bearing capacity test for concrete pile		time		

Conditions:

- Above cost shall not include company's overhead expense, profit and Taxes such as VAT.