

APPENDIX E-5

Construction Cost with applying the unit price for each contractors

Construction Cost with applying the unit price for each contractors (1/2)

Exchange Rate	1USD= 113.34 (YEN)
	1EUR= 121.26 (YEN)
	1LE= 6.49 (YEN)

Construction Cost			Unit	Quantity	1. Canal harbor and great project company				2. SAMCRETE Engineers & Contractors				3. UNION SEVEN, SAE			
					US\$	LE	YEN	Total (Exchange to "YEN")	US\$	LE	YEN	Total (Exchange to "YEN")	US\$	LE	YEN	Total (Exchange to "YEN")
I-1 Direct Cost	A. Civil Works	A-1. Excavation	L.S	1.0		3,882,675		25,198,000		6,160,402		39,981,000		2,983,318		19,361,000
		A-2. Embankment	L.S	1.0		19,380,097		125,776,000		24,745,287		160,596,000		12,339,321		80,082,000
		A-3. Demolition work	L.S	1.0		115,410		749,000		156,407		1,015,000		90,550		587,000
		A-4. Sheet pile bank protection	L.S	1.0	636,160	4,478,828	6,996,465	108,166,000	636,160	6,822,308	6,996,465	123,375,000	636,160	5,016,901	6,996,465	111,658,000
		A-5. Rip rap bank protection	L.S	1.0		3,624,529	10,700,560	34,223,000		6,713,458	10,700,560	54,270,000		4,652,047	10,700,560	40,892,000
		A-6. Canal bed protection	L.S	1.0	196,051	2,152,619		36,190,000	196,051	3,648,944		45,902,000	196,051	1,866,835		34,336,000
		A-7. Concrete work for regulators	L.S	1.0		37,649,805	686,206	245,033,000		56,450,158	686,206	367,047,000		42,316,593	686,206	275,320,000
		A-8. Pile foundation work	L.S	1.0		12,279,780		79,695,000		14,925,875		96,868,000		13,202,064		85,681,000
		A-9. Accessory works	L.S	1.0		16,271,453	17,569,265	123,170,000		23,456,417	17,569,265	169,801,000		18,579,854	17,569,265	138,152,000
		A-10. Electric works	L.S	1.0		3,063,072	8,650,000	28,529,000		4,024,093	8,650,000	34,766,000		3,886,424	8,650,000	33,872,000
		A-11. Gate manufactures and works	L.S	1.0		17,135,038	1,672,334,600	1,783,540,000		21,753,385	1,672,334,600	1,813,514,000		18,440,254	1,672,334,600	1,792,011,000
		A-12. Expense of the machine and facilities	L.S	1.0	221,310	23,557,993	53,661,990	231,636,000	221,310	27,297,429	53,661,990	255,905,000	221,310	20,782,687	53,661,990	213,624,000
	sub total (Civil works)				1,053,520	143,591,299	1,770,599,086	2,821,912,000	1,053,520	196,154,164	1,770,599,086	3,163,045,000	1,053,520	144,156,846	1,770,599,086	2,825,583,000
	B. Temporary works	B-1. Temporary Coffor Dam	L.S	1.0	840,284	17,091,686	110,691,135	316,854,000	840,284	26,298,652	110,691,135	376,607,000	840,284	14,254,270	110,691,135	298,439,000
		B-2. Single Sheet Pile	L.S	1.0	438,170	2,214,558	6,347,427	70,382,000	438,170	4,232,231	6,347,427	83,476,000	438,170	2,041,534	6,347,427	69,259,000
		B-3. Temporary bridge	L.S	1.0		4,508,147	53,423,642	82,681,000		7,163,037	53,423,642	99,911,000		3,257,379	53,423,642	74,564,000
		B-4. Dewatering	L.S	1.0		10,031,694		65,105,000		11,593,759		75,243,000		9,863,770		64,015,000
		B-5. Temporary road & preparation	L.S	1.0		7,901,038		51,277,000		9,909,517		64,312,000		5,188,326		33,672,000
		B-6. diversion works	L.S	1.0		11,244,801		72,978,000		13,205,441		85,703,000		10,489,883		68,079,000
		B-7. Other temporary works	L.S	1.0		18,836,887	17,112,000	139,363,000		23,255,769	17,112,000	168,041,000		13,995,481	17,112,000	107,942,000
		B-8. Transpotation / Shipment	L.S	1.0	1,913,685	13,325,895	75,194,993	378,577,000	1,913,685	10,706,529	75,203,720	361,586,000	1,913,685	18,428,520	75,199,266	411,697,000
	sub total (Temporary works)				3,192,139	85,154,707	262,769,197	1,177,220,000	3,192,139	106,364,936	262,777,924	1,314,883,000	3,192,139	77,519,164	262,773,470	1,127,669,000
	C. Building works	C-1. Control house	L.S	1.0		1,977,700		12,835,000		1,977,700		12,835,000		1,977,700		12,835,000
		C-2. Local contrl house	L.S	1.0		301,900		1,959,000		301,900		1,959,000		301,900		1,959,000
		C-3. Local contrl house	L.S	1.0		301,900		1,959,000		301,900		1,959,000		301,900		1,959,000
		C-4. Stop log room	L.S	1.0		818,200		5,310,000		818,200		5,310,000		818,200		5,310,000
	sub total (Building works)					3,399,700		22,064,000		3,399,700		22,064,000		3,399,700		22,064,000
D. Integrated Water Management System	D-1. IWMS manufactures	L.S	1.0		15,676,546		101,740,000		15,676,546		101,740,000		15,676,546		101,740,000	
	D-2. Installation for IWMS	L.S	1.0		15,951,898		103,527,000		15,951,898		103,527,000		15,951,898		103,527,000	
sub total (Integrated Water Management System)					31,628,444		205,268,000		31,628,444		205,268,000		31,628,444		205,268,000	
E. Dispute Board	E-1. Dispute Board	L.S	1.0	407,000			46,129,000	407,000			46,129,000	407,000			46,129,000	
	sub total (Dispute Board)				407,000			46,129,000	407,000			46,129,000	407,000			46,129,000
					4,652,660	263,774,149	2,033,368,283	4,272,594,000	4,652,660	337,547,244	2,033,377,010	4,751,391,000	4,652,660	256,704,153	2,033,372,556	4,226,714,000
I-2 Indirect Cost					1,485,994	85,599,656	186,285,715	910,250,000	1,485,994	111,307,823	186,288,770	1,077,099,000	1,485,994	84,267,303	186,287,212	901,604,000
Total					6,138,654	349,373,805	2,219,653,998	5,182,845,000	6,138,654	448,855,067	2,219,665,780	5,828,490,000	6,138,654	340,971,456	2,219,659,768	5,128,320,000
					13.4%	43.7%	42.9%		11.9%	50.0%	38.1%		13.6%	43.2%	43.2%	

Construction Cost with applying the unit price for each contractors (2/2)

Exchange Rate	1USD= 113.34 (YEN)
	1EUR= 121.26 (YEN)
	1LE= 6.49 (YEN)

Construction Cost			Unit	Quantity	4. The Egyptian Office For Contracting (ECO)				5. ORASCOM CONSTRUCTION				(6. Average from 1. to 4.)				
					US\$	LE	YEN	Total (Exchange to "YEN")	US\$	LE	YEN	Total (Exchange to "YEN")	US\$	LE	YEN	Total (Exchange to "YEN")	
I-1 Direct Cost	A. Civil Works	A-1. Excavation	L.S	1.0		4,314,969		28,004,000		5,941,020		38,557,000		4,438,017		28,802,000	
		A-2. Embankment	L.S	1.0		17,829,952		115,716,000		22,808,573		148,027,000		18,815,689		122,113,000	
		A-3. Demolition work	L.S	1.0		164,789		1,069,000		137,868		894,000		131,997		856,000	
		A-4. Sheet pile bank protection	L.S	1.0	636,160	5,263,026	6,996,465	113,255,000	636,160	5,786,213	6,996,465	116,651,000	636,160	5,394,081	6,996,465	114,106,000	
		A-5. Rip rap bank protection	L.S	1.0		4,970,969	10,700,560	42,962,000		6,290,243	10,700,560	51,524,000		5,023,275	10,700,560	43,301,000	
		A-6. Canal bed protection	L.S	1.0	196,051	2,779,667		40,260,000	196,051	3,088,288		42,263,000	196,051	2,641,631		39,364,000	
		A-7. Concrete work for regulators	L.S	1.0		42,463,927	686,206	276,277,000		54,119,226	686,206	351,919,000		44,873,250	686,206	291,913,000	
		A-8. Pile foundation work	L.S	1.0		13,057,184		84,741,000		15,352,634		99,638,000		13,382,883		86,854,000	
		A-9. Accessory works	L.S	1.0		19,359,973	17,569,265	143,215,000		23,171,993	17,569,265	167,955,000		19,516,171	17,569,265	144,229,000	
		A-10. Electric works	L.S	1.0		3,539,442	8,650,000	31,620,000		3,766,860	8,650,000	33,096,000		3,626,535	8,650,000	32,186,000	
		A-11. Gate manufactures and works	L.S	1.0		19,024,563	1,672,334,600	1,795,804,000		19,247,838	1,672,334,600	1,797,253,000		19,081,523	1,672,334,600	1,796,173,000	
		A-12. Expense of the machine and facilities	L.S	1.0	221,310	24,007,302	53,661,990	234,552,000	221,310	26,199,550	53,661,990	248,780,000	221,310	23,815,178	53,661,990	233,305,000	
	sub total (Civil works)					1,053,520	156,775,761	1,770,599,086	2,907,479,000	1,053,520	185,910,308	1,770,599,086	3,096,562,000	1,053,520	160,740,229	1,770,599,086	2,933,209,000
	B. Temporary works	B-1. Temporary Coffor Dam	L.S	1.0	840,284	18,265,116	110,691,135	324,469,000	840,284	21,027,421	110,691,135	342,396,000	840,284	19,099,570	110,691,135	329,885,000	
		B-2. Single Sheet Pile	L.S	1.0	438,170	2,721,320	6,347,427	73,671,000	438,170	2,733,442	6,347,427	73,749,000	438,170	2,790,300	6,347,427	74,118,000	
		B-3. Temporary bridge	L.S	1.0		5,014,025	53,423,642	85,964,000		5,216,082	53,423,642	87,276,000		4,976,787	53,423,642	85,722,000	
		B-4. Dewatering	L.S	1.0		10,700,840		69,448,000		10,517,748		68,260,000		10,519,709		68,272,000	
		B-5. Temporary road & preparation	L.S	1.0		7,717,994		50,089,000		9,319,421		60,483,000		7,783,261		50,513,000	
		B-6. diversion works	L.S	1.0		11,809,523		76,643,000		12,689,336		82,353,000		11,759,641		76,320,000	
		B-7. Other temporary works	L.S	1.0		16,286,601	17,112,000	122,812,000		18,795,424	17,112,000	139,094,000		18,178,115	17,112,000	135,087,000	
		B-8. Transpotation / Shipment	L.S	1.0	1,913,685	10,817,689	75,198,254	362,302,000	1,913,685	11,600,564	75,198,984	367,383,000	1,913,685	13,325,895	75,199,059	378,581,000	
	sub total (Temporary works)				3,192,139	83,333,108	262,772,458	1,165,401,000	3,192,139	91,899,439	262,773,188	1,220,997,000	3,192,139	88,433,278	262,773,263	1,198,502,000	
	C. Building works	C-1. Control house	L.S	1.0		1,977,700		12,835,000		1,977,700		12,835,000		1,977,700		12,835,000	
		C-2. Local contrl house	L.S	1.0		301,900		1,959,000		301,900		1,959,000		301,900		1,959,000	
		C-3. Local contrl house	L.S	1.0		301,900		1,959,000		301,900		1,959,000		301,900		1,959,000	
		C-4. Stop log room	L.S	1.0		818,200		5,310,000		818,200		5,310,000		818,200		5,310,000	
	sub total (Building works)					3,399,700		22,064,000		3,399,700		22,064,000		3,399,700		22,064,000	
D. Integrated Water Management System	D-1. IWMS manufactures	L.S	1.0		15,676,546		101,740,000		15,676,546		101,740,000		15,676,546		101,740,000		
	D-2. Installation for IWMS	L.S	1.0		15,951,898		103,527,000		15,951,898		103,527,000		15,951,898		103,527,000		
sub total (Integrated Water Management System)					31,628,444		205,268,000		31,628,444		205,268,000		31,628,444		205,268,000		
E. Dispute Board	E-1. Dispute Board	L.S	1.0	407,000			46,129,000	407,000			46,129,000	407,000			46,129,000		
sub total (Dispute Board)				407,000			46,129,000	407,000			46,129,000	407,000			46,129,000		
					4,652,660	275,137,013	2,033,371,544	4,346,343,000	4,652,660	312,837,890	2,033,372,274	4,591,022,000	4,652,660	284,201,651	2,033,372,349	4,405,173,000	
I-2 Indirect Cost					1,485,994	90,657,085	186,286,857	943,073,000	1,485,994	103,849,443	186,287,113	1,028,692,000	1,485,994	93,278,928	186,287,138	960,089,000	
Total					6,138,654	365,794,098	2,219,658,401	5,289,417,000	6,138,654	416,687,333	2,219,659,387	5,619,715,000	6,138,654	377,480,579	2,219,659,487	5,365,263,000	
					13.2%	44.9%	41.9%		12.4%	48.1%	39.5%		13.0%	45.7%	41.3%		

APPENDIX E-6

Comparison Table of the unit price

A. Personnel Fee (Local)

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
A-01	Civil engineer	20 years experience	Month	30,000	51,800	48,900	36,000	78,587	41,675	49,057
A-02	Civil engineer	15 years experience	Month	20,000	38,000	41,800	27,000	55,011	31,700	36,362
A-03	Civil engineer	10 years experience	Month	15,000	25,900	34,736	18,000	47,152	23,409	28,158
A-04	Civil engineer	5 years experience	Month	10,000	17,300	24,959	13,000	25,541	16,315	18,160
A-05	Architect	20 years experience	Month	30,000	51,800	48,900	36,000	78,587	41,675	49,057
A-06	Architect	15 years experience	Month	20,000	38,000	41,800	27,000	55,011	31,700	36,362
A-07	Architect	10 years experience	Month	15,000	25,900	34,736	18,000	47,152	23,409	28,158
A-08	Architect	5 years experience	Month	10,000	17,300	24,959	13,000	25,541	16,315	18,160
A-09	Mechanical engineer	10 years experience	Month	15,000	20,700	34,736	13,000	53,046	20,859	27,296
A-10	Electrical engineer	10 years experience	Month	15,000	20,700	34,736	15,000	53,046	21,359	27,696
A-11	Surveyor		Month	15,000	13,800	17,359	9,000	19,647	13,790	14,961
A-12	Surveyor Assistant		Month	10,000	8,700	8,859	5,000	11,788	8,140	8,869
A-13	Draft man	CAD operator	Month	10,000	13,800	11,692	9,000	16,110	11,123	12,120
A-14	Administrator	10 years experience	Month	5,000	20,700	21,609	13,000	29,470	15,077	17,956
A-15	Administrative secretary		Month	4,000	13,800	8,859	7,500	23,576	8,540	11,547
A-16	Asistant administrator		Month	4,000	8,700	10,276	6,000	20,629	7,244	9,921
A-17	Office boy		Month	3,000	6,100	6,026	4,000	6,876	4,782	5,200
A-18	Driver	Dump, Cargo	Month	10,000	13,800	8,151	8,500	13,895	10,113	10,869
A-19	Security guard	Daytime	Month	3,000	6,100	3,901	4,000	6,876	4,250	4,775
A-20	Forman		Day	150	520	440	380	491	373	396
A-21	Skilled labor		Day	200	350	369	250	397	292	313
A-22	Common labor		Day	150	210	206	170	233	184	194
A-23	Rigger		Day	200	440	369	300	250	327	312
A-24	Re-bar fixer		Day	200	440	369	300	397	327	341
A-25	Operator	for construction equipment	Day	200	520	440	350	-	378	378
A-26	Carpenter		Day	200	440	369	350	397	340	351
A-27	Plasterer		Day	200	440	369	280	422	322	342
A-28	Masonry		Day	200	440	369	280	422	322	342
A-29	Painter		Day	200	440	369	280	322	322	322
A-30	Welder		Day	200	520	405	320	320	361	353
A-31	Electrician	General	Day	200	440	405	320	373	341	348
A-32	Mechanic		Day	200	440	369	320	373	332	340
A-33	Plumber		Day	200	440	369	280	373	322	332
A-34	Security		Day							
A-35	Driver	Dump, Cargo	Day	400	-	398	350	534	383	421

E-479

B. Equipment Hire

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
B-1	Backhoe	0.45m3	Day	3,921	3,910	1,000	2,100	2,581	2,733	2,702
B-2	Backhoe	0.8m3	Day	4,196	5,870	1,200	3,000	4,528	3,567	3,759
B-3	Backhoe	1.4m3	Day	2,500	7,820	1,350	4,300	7,810	3,993	4,756
B-4	Breaker	1300kg	Day	-	-	1,500	5,200	-	3,350	3,350
B-5	Truck crane	5t	Day	2,000	3,910	-	2,300	-	2,737	2,737
B-6	Truck crane	20t	Day	2,500	6,850	2,500	4,000	-	3,963	3,963
	Truck crane	25t	Day	3,000	9,780	3,000	5,000	-	5,195	5,195
B-7	Truck crane	35t	Day	5,000	11,730	3,500	6,200	-	6,608	6,608
B-8	Truck crane	50t	Day	8,000	15,640	5,000	9,000	-	9,410	9,410
	Truck crane	80t	Day	9,000	23,460	7,500	14,000	-	13,490	13,490
	Crawler crane	30 - 35t	Day	3,340	15,640	4,000	9,000	-	7,995	7,995
	Crawler crane	40 - 45t	Day	2,745	19,550	4,500	12,000	-	9,699	9,699
B-13	Crawler crane	50 - 55t	Day	-	23,460	5,000	14,000	-	14,153	14,153
	Crawler crane	80t	Day	2,668	29,330	7,500	18,000	29,989	14,375	17,497
B-17	Clamshell	0.8m3	Day	-	-	6,000	1,000	-	3,500	3,500
B-18	Rough ttrain crain	20t	Day	3,000	-	2,500	3,300	-	2,933	2,933
B-19	Rough ttrain crain	25t	Day	4,000	-	3,000	4,500	7,037	3,833	4,634
	Rough ttrain crain	30t	Day	5,000	-	3,500	6,500	7,757	5,000	5,689
	Rough ttrain crain	50t	Day	9,000	-	5,000	9,200	12,646	7,733	8,962
B-22	Bulldozer	15t	Day	4,570	9,780	2,000	4,800	8,543	5,288	5,939
B-23	Bulldozer	21t	Day	4,570	11,730	2,000	6,000	13,640	6,075	7,588
B-24	Wheel Shovel (Loader)	2.1m3	Day	-	3,910	1,200	2,200	6,096	2,437	3,352
B-25	Dump truck	4t	Day	1,200	1,960	1,000	1,000	-	1,290	1,290
B-26	Dump truck	10t	Day	1,800	3,520	1,500	2,200	3,066	2,255	2,417
B-27	Truck	4t	Day	990	1,570	750	900	949	1,053	1,032
B-28	Truck	6t	Day	1,200	2,350	1,000	1,300	2,534	1,463	1,677
B-29	Truck	11t	Day	1,700	2,940	1,500	1,500	-	1,910	1,910
B-30	Truck with crane	4t/2t	Day	-	2,940	2,000	2,000	-	2,313	2,313
B-31	Trailer	15t	Day	2,680	4,890	3,000	3,300	-	3,468	3,468
	Trailer	20t	Day	2,680	6,850	3,500	4,000	-	4,258	4,258
B-32	Trailer	30t	Day	2,680	8,800	4,000	4,300	-	4,945	4,945
B-37	Plate compactor	60-100kg	Day	1,142	590	350	300	336	596	544
B-38	Tamping rammer	60-100kg	Day	-	400	350	200	-	317	317
B-39	Vibratory roller	0.8-1.1t	Day	1,200	1,570	800	900	-	1,118	1,118
B-40	Vibratory roller	3 - 4t	Day	1,400	2,350	900	1,500	-	1,538	1,538
B-41	Vibratory roller	8 - 10t	Day	2,000	3,910	1,150	2,000	1,878	2,265	2,188

E-480

B. Equipment Hire

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
B-42	Pneumatic tire roller	8-20t	Day	2,000	3,910	2,000	2,500	2,899	2,603	2,662
B-45	Mixer truck	4.4m3	Day	3,200	1,960	-	-	-	2,580	2,580
B-46	Mixer truck	5m3	Day	3,200	2,350	2,500	2,000	2,491	2,513	2,508
B-47	Concrete batcher plant	30m3/h	Day	15,000	19,550	10,000	12,000	-	14,138	14,138
	Concrete batcher plant	45m3/h	Day	20,000	29,330	12,500	25,000	-	21,708	21,708
B-48	Cement silo	50t	Day	1,000	3,910	750	2,000	-	1,915	1,915
B-49	Concrete pump	40~75m3/h	Day	3,000	3,910	6,500	2,500	-	3,978	3,978
	Concrete pump	90~110m3/h	Day	5,000	5,870	8,000	3,000	15,025	5,468	7,379
B-50	Motorgrader	W3.2m, 120PS	Day	2,000	3,910	3,000	1,800	20,233	2,678	6,189
	Asphalt finisher	Width 1.4 - 3.0m	Day	3,000	3,910	4,000	2,500	-	3,353	3,353
B-51	Asphalt finisher	Width 2.4 - 6.0m	Day	4,000	5,870	5,000	3,800	7,213	4,668	5,177
	Road Roller	10 - 12t	Day	3,000	2,940	1,850	1,500	-	2,323	2,323
	Tire Roller	8 - 20t	Day	2,000	3,910	2,250	2,000	2,899	2,540	2,612
B-52	Welding Machine	300A	Day	500	1,960	400	1,000	231	965	818
B-53	Concrete Vibrator	D50mm	Day	100	980	150	450	275	420	391
B-54	Submersible Pump	6inch h=10m	Day	900	980	300	550	-	683	683
B-55	Submersible Pump	4inch h=15m	Day	700	1,570	275	750	-	824	824
B-56	Submersible Pump	2inch h=30m	Day	500	2,350	250	1,200	-	1,075	1,075
	Generator	300kva	Day	1,697	3,910	1,500	2,500	1,552	2,402	2,232
B-58	Generator	200kva	Day	1,356	2,940	1,100	1,700	1,115	1,774	1,642
B-59	Generator	150kva	Day	1,000	2,550	1,000	1,500	857	1,513	1,381
	Generator	100kva	Day	900	2,160	850	1,000	700	1,228	1,122
B-60	Generator	75kva	Day	900	1,960	750	900	700	1,128	1,042
	Generator	50kva	Day	900	1,760	600	800	471	1,015	906
B-61	Generator	35kva	Day	900	1,570	550	750	471	943	848
B-62	Vibrate Hammer for driving steel sheet pile	90kw	Day	5,069	-	-	-	-	5,069	5,069
B-63	Vibrate Hammer for driving steel sheet pile	60kw	Day	3,278	-	2,500	-	-	2,889	2,889
B-64	Re-bar cutter	D41	Day	200	1,570	750	800	738	830	812
B-65	Re-bar bender	D41	Day	200	1,570	750	800	903	830	845
	Water Tank Truck	10m3	Day	2,255	2,940	1,800	1,400	3,011	2,099	2,281
	Water jet	14.7MPa、325ℓ/min	Day	692	-	-	-	-	692	692
	Reverse Circulation Drill	rotary table, D3,200mm, H200m	Day	300	-	-	-	-	300	300
	Hydraulic Press-fitting and P	4 jacks, D1,000mm	Day	300	-	-	-	-	300	300

E-481

C. Construction Material

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
C-1	Reinforcing bar	φ10	Ton	10,000	11,100	11,000	10,500	14,490	10,650	11,418
C-2	Reinforcing bar	D12 - D16	Ton	10,000	11,100	11,000	11,000	14,490	10,775	11,518
C-3	Reinforcing bar	D18- D25	Ton	10,000	11,100	11,000	11,000	14,490	10,775	11,518
C-4	Reinforcing bar	D29 - D41	Ton	10,000	12,500	12,250	11,200	14,490	11,488	12,088
C-6	H-beam	Size up to 200x200	Ton	9,000	22,100	15,000	14,000	-	15,025	15,025
C-7	H-beam	H300x300 and more	Ton	9,000	22,100	17,500	14,000	-	15,650	15,650
	Maintenance fee for H-beam		Ton	9,000	-	-	-	-	9,000	9,000
C-8	Steel angle	L50x50	Ton	9,000	20,700	11,000	12,000	-	13,175	13,175
C-9	Steel angle	L75x75	Ton	9,000	20,700	-	12,000	-	13,900	13,900
	Channel	C150x75x6.5	Ton	9,000	22,100	15,000	14,000	-	15,025	15,025
	Channel	C200x80x7.5	Ton	9,000	22,100	15,000	14,000	-	15,025	15,025
	Channel	C250x90x9	Ton	9,000	22,100	15,000	14,000	-	15,025	15,025
C-11	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	Ton	7,000	-	-	-	-	7,000	7,000
	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	Ton	7,500	-	-	-	-	7,500	7,500
	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	Ton	8,000	-	-	-	-	8,000	8,000
C-12	Steel wire		Kg	15	35	18	30	-	25	25
C-13	Barbed wire		Kg	20	22	20	27	-	22	22
C-14	Galvanized Gabion box	2x1x1m, 3.9mm wire	pc	200	2,800	-	2,000	-	1,667	1,667
C-18	Cement (Sulfate Resisting Cement)	type V, 50kg bag	Ton	1,000	1,400	935	850	1,424	1,046	1,122
C-19	Cement (Nomal Portland Cement)	type I, 50kg bag	Ton	900	1,300	870	800	1,343	968	1,043
C-20	Non shrink cement		kg	10	16,600	10	900	6	4,380	3,505
C-25	Water reducing agent		Lit.	10	-	35	-	-	23	23
C-28	Fine aggregate for concrete		m3	135	70	50	70	65	81	78
C-29	Coarse aggregate for concrete	25-40mm	m3	200	170	160	120	156	163	161
C-30	Sand for backfill		m3	90	60	40	55	57	61	60
C-31	Crushed stone for pavement		m3	40	210	120	145	-	129	129
C-32	Cobble	200-400mm	m3	40	140	90	165	-	109	109
C-33	Timber	50W*50H*4000L	m3	5,200	6,900	5,500	4,000	-	5,400	5,400
C-34	Plywood	1.22x2.44 m T=12mm	m2	150	140	280	200	-	193	193
	Plywood	1.22x2.44 m T=18mm	m2	200	200	315	235	-	238	238
C-35	Plywood (coating)	1.22x2.44 m T=12mm	m2	180	60	320	310	-	218	218
	Plywood (coating)	1.22x2.44 m T=18mm	m2	230	60	370	355	-	254	254
	Concrete form oil		ℓ	-	-	10	-	-	10	10
	Sandbag	48x62cm	pc	10	30	-	11	-	17	17
	Sandbag (1 ton)	86x86x120cm	pc	50	280	-	160	-	163	163

E-482

C. Construction Material

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
C-36	Steel plate	1.2m×2.5m, t=22mm	pc	6,000	1,380	-	7,300	-	4,893	4,893
C-37	Steel plate	1.5m×3.0m, t=22mm	pc	8,000	2,070	-	9,000	-	6,357	6,357
	Checkered steel plate	1.2m×2.5m, t=22mm	pc	6,500	2,070	-	-	-	4,285	4,285
	Checkered steel plate	1.5m×3.0m, t=22mm	pc	8,500	3,040	-	-	-	5,770	5,770
C-38	Oil boom	upper 30cm×lower 40cm (from water surface)	m	1,000	-	-	-	-	1,000	1,000
C-40	Oil paint		Lit.	-	28	50	60	116	46	64
C-41	Emulsion paint		Lit.	-	28	52	40	72	40	48
C-42	Acrylics paint		Lit.	-	28	60	55	81	48	56
C-43	Vinyl paint		Lit.	-	42	65	50	-	52	52
C-45	Emulsion putty		Lit.	-	28	40	33	12	34	28
C-46	Oil putty		Lit.	-	28	40	33	15	34	29
C-47	Brick	200x100x60	1000pc	400	1,380	1,250	1,100	2,336	1,033	1,293
C-48	Concrete block	150x200x400	1000pc	600	8,280	4,200	10,900	8,640	5,995	6,524
C-49	Asphalt water proofing sheet		m2	80	83	80	85	-	82	82
	Roof drain	for φ100mm, PVC		-	-	680	200	982	440	621
C-50	Polystyrene form	t=50mm	m2	-	98	100	125	140	108	116
C-51	Bitumen		Kg	20	20	-	15	-	18	18
C-52	Common glass	t=4mm	m2	-	70	60	90	1,265	73	371
C-53	Glass containing a net	t=6.8mm	m2	-	276	95	200	1,328	190	475
C-54	Stainless steel hinge		pc	-	-	150	125	472	138	249
C-55	Door lock		pc	-	276	860	280	5,658	472	1,769
C-56	Door closer		pc	-	1,656	1,250	550	2,923	1,152	1,595
C-57	Aluminum window	1500x1000	m2	1,200	2,070	4,500	2,500	-	2,568	2,568
C-58	Aluminum louver	1000x500	m2	-	2,070	3,000	2,800	-	2,623	2,623
C-59	Steel door	2000x2500	m2	-	27,600	20,000	30,000	7,422	25,867	21,256
C-60	Wooden door	600x2000	pc	-	3,450	3,580	4,000	6,842	3,677	4,468
C-61	Galvanized steel Handrail	H=1.100	m	1,000	1,380	-	-	-	1,190	1,190
C-62	Steel stairs	W:1.2m x H:10m	t	20,000	41,400	-	-	-	30,700	30,700
C-63	Guardrail for Bridge (galvanized steel)	H:1.2m	m	3,000	1,660	-	-	-	2,330	2,330
C-64	Guardrail for Road (galvanized steel)	H:1.1m	m	2,200	1,520	-	-	-	1,860	1,860
C-65	Guardpipe for Road (galvanized steel)	H:1.1m	m	-	1,110	-	-	-	1,110	1,110
C-66	Polyethylene sheet	t=0.15mm	m2	20	30	-	17	15	22	21
C-67	Grating (galvanized steel)	T-20	m2	-	4,140	-	-	-	4,140	4,140
C-68	Ceramic tile		m2	100	138	230	180	183	162	166
C-69	Terrazzo tile		m2	-	98	140	120	124	119	121

E-483

C. Construction Material

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
C-70	Marble stone		m2	-	690	800	900	1,556	797	987
C-71	Cement tile	200*200*20	m2	45	70	100	100	112	79	85
C-72	P-Tile	300*300*4mm	m2	-	208	150	140	595	166	273
C-73	Gypsum board	t=12	m2	150	221	200	150	593	180	263
C-74	Cement board	t=6	m2	-	138	-	135	-	137	137
	Corner bead	t=9mm	m	-	166	-	-	16	166	91
	Ceiling access hatch	□600mm	pc	-	4,140	2,500	350	3,962	2,330	2,738
C-77	Nail	55mm	kg	15	50	-	-	-	33	33
C-78	PVC pipe	φ250	m	300	390	-	360	671	350	430
C-79	PVC pipe	φ200	m	220	250	-	290	442	253	301
C-80	PVC pipe	φ150	m	160	140	-	145	303	148	187
C-81	PVC pipe	φ100	m	130	90	-	75	172	98	117
C-82	PVC pipe	φ 50	m	60	30	-	28	67	39	46
C-83	PVC pipe	φ 25	m	30	20	-	12	41	21	26
C-90	Galvanized steel pipe	25A	m	80	70	-	75	360	75	146
C-91	Galvanized steel pipe	50A	m	160	130	-	130	737	140	289
C-92	Galvanized steel pipe	100A	m	350	240	-	200	1,310	263	525
C-93	Galvanized steel pipe	200A	m	750	560	-	450	4,421	587	1,545
C-94	Galvanized steel pipe	300A	m	1,000	830	-	700	9,005	843	2,884
C-95	Rabber shoe for Bridge	Pad type, t=32mm	m2	-	96,600	-	-	-	96,600	96,600
	Rabber shoe for Bridge	Pad type, t=40mm	m2	-	118,680	-	-	-	118,680	118,680
	Rabber shoe for Bridge	Pad type, t=50mm	m2	-	151,800	-	-	-	151,800	151,800
C-96	Expansion joint for Bridge	steel, ∠=20mm	m2	-	4,140	-	-	-	4,140	4,140
	Expansion joint for Bridge	steel, ∠=35mm	m2	-	5,520	-	-	-	5,520	5,520
	Anchor rod for bridge	fixed, φ32	pc	150	2,070	-	-	-	1,110	1,110
	Anchor rod for bridge	movable, φ32	pc	150	2,070	-	-	-	1,110	1,110
C-135	Dowell bar	φ28, L=700mm	pc	70	280	-	145	-	165	165
C-136	Dowell bar cap	φ28	pc	100	70	-	30	-	67	67
C-98	Water stop (Rabber type)	w:230mm	m	100	120	-	240	74	153	134
C-99	Elastic expansion joint filler	20mm	m2	100	210	-	500	1,965	270	694
C-137	Geotextile	nylon · polyester, t=0.5mm	m2	30	50	-	35	-	38	38
C-100	Electric wire	2mm2-2C	m	-	15	-	7	62	11	28
C-101	Electric wire	2mm2-3C	m	-	18	-	9	75	14	34
C-102	Electric wire	3.5mm2-2C	m	-	24	-	11	65	18	33
C-103	Electric wire	3.5mm2-3C	m	-	33	-	13	78	23	41

E-484

C. Construction Material

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
C-104	Electric wire	3.5mm2-4C	m	-	41	-	24	93	33	53
C-105	Electric wire	5.5mm2-2C	m	-	34	-	27	100	31	54
C-106	Electric wire	5.5mm2-3C	m	-	46	-	38	101	42	62
C-107	Electric wire	5.5mm2-4C	m	-	56	-	55	127	56	79
C-108	Electric wire	8mm2-3C	m	-	70	-	60	137	65	89
C-109	Electric wire	14mm2-3C	m	-	98	-	65	188	82	117
C-110	Electric wire	22mm2-3C	m	-	208	-	150	350	179	236
C-111	Electric wire	30mm2-3C	m	-	276	-	170	441	223	296
C-112	Electric wire	38mm2-3C	m	-	329	-	200	444	265	324
C-113	Electric conduit pipe	φ20	m	-	12	35	30	39	26	29
C-114	Electric conduit pipe	φ50	m	-	26	55	45	67	42	48
C-115	Electric conduit pipe	φ100	m	-	70	95	67	166	77	100
C-116	Electric conduit pipe	φ150	m	-	111	215	80	295	135	175
C-117	Switch	AC300V 10A	pc	-	346	-	-	211	346	279
C-118	Socket outlet	AC250V 2P-13A	pc	-	208	-	-	196	208	202
C-119	Pull box	100x100x100	pc	-	138	-	100	232	119	157
C-120	Breaker	MCB 4P 50AF/30AT	pc	-	1,036	-	710	968	873	905
C-121	Breaker	ELB 2P 50AF/20AT	pc	-	690	-	6,200	499	3,445	2,463
C-122	Power distribution board	MCB 2P 50AF/20AT x14	pc	-	8,280	-	5,700	13,221	6,990	9,067
C-123	Fluorescent light (Ceiling type)	20Wx4 (Ceiling)	set	-	1,036	-	630	2,808	833	1,491
C-124	Fluorescent light (Ceiling mounted type)	40Wx2 (Ceiling)	set	-	898	-	700	1,757	799	1,118
C-125	Fluorescent light (Ceiling mounted type)	40Wx1 (Ceiling)	set	-	690	-	240	1,062	465	664
C-126	Fluorescent light (Wall mounted type)	18Wx1 (Wall)	set	-	690	-	210	765	450	555
C-127	Incandescent lamp (Ceiling mounted type)	60W*1 (Ceiling)	set	-	484	-	250	1,203	367	646
C-128	Incandescent lamp (Waterproof type)	60W*1 (Wall)	set	-	690	-	440	1,203	565	778
C-129	Ventilation fan	400CMHx14mmAp	set	-	11,730	-	1,000	1,965	6,365	4,898
C-130	Ventilation fan	580CMHx7mmAp	set	-	20,700	-	12,700	1,637	16,700	11,679
C-131	Air-conditioner	5500kcal/h	set	-	16,560	15,000	16,100	24,558	15,887	18,055
C-132	Washstand		set	-	-	3,000	-	-	3,000	3,000
C-133	Sink cabinet		set	-	-	5,000	10,000	-	7,500	7,500
C-134	Transformer (3-phase)	200KVA	set	-	-	-	-	266,459	266,459	266,459
C-135	Transformer (3-phase)	100KVA	set	-	-	-	-	211,500	211,500	211,500
K-001	Caulking material		kg	-	-	-	130	-	130	130
K-002	Hydrated lime		kg	10	-	1	-	-	6	6
K-003	Abrasive paper		sh	-	-	-	8	-	8	8

E-485

C. Construction Material

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
P-001	Coated steel pipe	6.4mm	m	-	-	-	-	57	57	57
P-002	Coated steel pipe	15.9mm	m	-	-	-	-	82	82	82
P-003	Slice valve	32mm	pc	-	-	-	150	409	150	280
P-004	Gass cock	GC25	pc	-	-	8,000	3,000	-	5,500	5,500
P-005	Screw cock	GC25	pc	-	-	35,000	-	-	35,000	35,000
P-006	Drain plate	COA100	pc	-	-	-	-	1,637	1,637	1,637
P-007	Western style toilet bowl	Lowtank type	pc	-	-	2,000	2,000	6,549	2,000	3,516
P-008	Water faucet		pc	-	-	1,250	1,500	3,602	1,375	2,117
P-009	Sewage tank	450x450x600	pc	-	-	-	5,000	3,438	5,000	4,219
P-010	Valve	40A	pc	-	-	-	300	327	300	314
P-012	Soak pit	1200φx2,600mm	pc	-	-	-	15,000	-	15,000	15,000
M-002	Ventilation fan (Ceiling)	550CMHx7mA	pc	-	-	-	4,500	3,929	4,500	4,215
M-003	Ventilation fan (Wall)	400CMHx7mA	pc	-	-	-	5,000	3,274	5,000	4,137
M-004	Fan for pipe	100φ 100 m3/h	pc	-	-	-	-	1,310	1,310	1,310
M-005	Air filter	500x1000x25	pc	-	-	-	600	1,637	600	1,119
M-006	Air filter	500x1500x25	pc	-	-	-	750	3,274	750	2,012
M-007	Spiral duct	150φ	pc	-	-	-	-	819	819	819
M-008	Bendcap	150φ	pc	-	-	-	-	1,228	1,228	1,228
M-009	Assembling equipment for gas cylinder		set	-	-	-	200	3,274	200	1,737
M-010	Thermostat		pc	-	-	-	200	1,064	200	632
E-001	Heat resistance cable	HP 1.2-4C	m	-	-	-	-	819	819	819
E-003	Outlet box	square w/coverplate	pc	-	-	-	150	230	150	190
E-004	Outlet box	3P 15A	pc	-	-	-	150	145	150	148
E-005	Cover plate		pc	-	-	-	-	85	85	85
E-006	Distribution board		pc	-	-	-	4,300	13,221	4,300	8,761
E-007	Firealarm reception board	5-wire circuit	pc	-	-	-	4,300	178,350	4,300	91,325
E-008	Smoke detector	Light sensing type	pc	-	-	-	550	1,284	550	917
E-009	Heat detector	Constant temperature type	pc	-	-	-	670	1,284	670	977
E-010	General panel	w/lamp,bell	pc	-	-	-	6,000	87,284	6,000	46,642
E-011	Mercury lamp material		set	-	-	-	150	281	150	216
E-012	Cable	vv3c-5.5	m	-	-	-	-	101	101	101
E-013	Fluorescent light (Ceiling type)	F61WP	pc	-	-	-	230	1,203	230	717
E-014	Flexible pipe	C25	m	-	-	-	10	99	10	55
E-015	Heat resistance cable	HP 1.2mm-5P	m	-	-	-	30	101	30	66
E-016	Conductor	60sq	m	-	-	-	390	221	390	306

E-486

C. Construction Material

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
E-017	Supporting material		pc	-	-	-	5	9	5	7
E-018	Line-connecting terminal	60sq	pc	-	-	-	50	52	50	51
E-019	Grounding rod	14 x1500	pc	-	-	-	-	1,277	1,277	1,277
E-020	Grounding copper plate	1.5t x 900	pc	-	-	-	800	1,162	800	981
E-021	Indication plate		pc	-	-	-	230	1,171	230	701
E-022	Earthing terminal board	1P+2	pc	-	-	-	990	18,419	990	9,705
E-023	Vinyl raceway	VE(28)	m	-	-	-	-	72	72	72
E-024	Vinyl electric wire	5.5sq	m	-	-	-	13	40	13	27
E-025	Vinyl electric wire	50sq	m	-	-	-	13	113	13	63
E-026	Conduit	FEP(50)	m	-	-	-	16	186	16	101
E-027	Conduit	CP(31)	m	-	-	-	40	78	40	59
E-028	Normal connecting bend	CP(31)	m	-	-	-	41	54	41	48
E-029	Flexible metal conduit		m	-	-	-	67	195	67	131
E-030	Box connector		pc	-	-	-	35	237	35	136
E-031	Pipe connector		pc	-	-	-	50	142	50	96
E-032	Pull box	300x300x200	pc	-	-	-	38	413	38	226
E-033	Handhall cap	Φ600	pc	-	-	-	1,250	5,133	1,250	3,192

E-487

G-J. Others

1\$= 17.46 LE

NO	Description	Specification	Unit	Unit Price (LE)					Average from A to D (AV. of 4 companies)	Average from A to E (AV. of 5 companies)
				A Canal Harbor	B Samcrete	C Union Seven (Lowest)	D Eco	E Orascom		
	House rental									
G-01	House rent	3 bed rooms (in Dirout)	month	5,000	8,000	7,000	5,500	-	6,375	6,375
G-02	Land rent	at near Dirout site	m2/month	-	5	20	10	-	12	12
	Vehicle									
H-01	Rent a car w/driver, fuel	Sedan	month	21,450	19,550	11,000	11,000	14,080	15,750	15,416
H-02	Rent a car w/driver, fuel	Pick-up	month	22,125	27,370	9,500	16,000	10,478	18,749	17,095
H-03	Rent a car w/driver, fuel	4WD	month	-	35,190	37,000	22,000	19,974	31,397	28,541
H-04	Rent a car w/driver, fuel	Microbus	month	23,750	39,100	18,000	27,000	21,939	26,963	25,958
	Public Fee									
I-01	Water charge	Connection	lot	-	-	18,000	20,000	-	19,000	19,000
I-03		Usage fee	m3	-	14	11	12	-	12	12
I-07	Telephone charge	Registration	lot	-	-	65	500	-	283	283
I-09		Basic charge		-	-	45	45	-	45	45
I-10		Usage fee	min	-	2	-	1	-	2	2
I-11	Electricity charge	Connection	lot	-	-	65,000	35,000	-	50,000	50,000
I-13		Usage fee	Kwh	-	3	1	2	-	2	2
I-16	Gasoline		Lit	3.50	6.25	3.50	3.50	-	4	4
I-17	Diesel		Lit	2.35	2.35	2.35	2.60	-	2	2
I-18	Lubricating oil		Lit	75	115	100	100	-	98	98
I-19	Oxygen		cylinder	-	3,307	-	1,750	-	2,529	2,529
I-20	Acetylene		cylinder	-	4,629	-	2,100	-	3,365	3,365
	Temporary facilities									
J-1	Temporary fence w/wire	H=2.0m	m	-	700	750	650	-	700	700
J-2	Temporary fence w/sheet	H=2.0m	m	-	1,100	1,250	900	-	1,083	1,083
J-5	Project signboard w/stand	1.8mx3.6m	set	-	26,500	16,000	20,000	-	20,833	20,833
J-6	Project signboard w/stand	0.9mx1.8m	set	-	10,600	9,000	6,000	-	8,533	8,533

E-489

APPENDIX E-7

Cost Estimation by each selection method of the unit price

Cost Estimation by each selection method of the unit price

exchange rate: **Average from February to 19th April 2017**
(approximately last 3 months)

Item	Selection of Unit Price		
	Average of 4 companies	Average of 5 companies	Lowest company (Union Seven)
1. Precondition			
Exchange rate	1\$=	113.34 (JPY)	
	1EUR=	121.26 (JPY)	
	1LE=	6.49 (JPY)	
Price escalation for LC	per year (%)	1.0	1.0
	Total (%)	18.9	18.9
Price escalation for FC	per year (%)	1.6	1.6
	Total (%)	4.2	4.2
2. Project Cost			
1) Construction Cost	JPY	5,365,263,000	5,427,763,000
	procured by USD	6,138,654 (13.0%)	6,138,654 (12.8%)
	procured by LE	377,480,579 (45.7%)	387,110,781 (46.3%)
	procured by JPY	2,219,659,487 (41.3%)	2,219,659,461 (40.9%)
2) Consultant Service (CS)	JPY	388,607,000	396,180,000
3) A. Price Escalation for Construction (LC)	JPY	463,021,000	474,834,000
B. Price Escalation for CS (LC)	JPY	21,013,000	22,445,000
4) A. Price Escalation for Construction (FC)	JPY	122,448,000	122,448,000
B. Price Escalation for CS (FC)	JPY	11,652,000	11,652,000
5) A. Physical Contingency for Construction	JPY	297,537,000	301,252,000
B. Physical Contingency for CS	JPY	21,064,000	21,514,000
7) Interest During Construction	JPY	20,100,000	20,400,000
8) Project Cost (1 ~ 7)	JPY	6,710,705,000	6,798,488,000
	procured by USD	6,716,301 (11.3%)	6,716,301 (11.2%)
	procured by LE	492,653,185 (47.6%)	506,132,776 (48.3%)
	procured by JPY	2,752,161,483 (41.1%)	2,752,461,455 (40.5%)

Project for Construction of the NDGRs

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

Exchange Rate	1USD= 113.34 (YEN)
	1EUR= 121.26 (YEN)
	1LE= 6.49 (YEN)

	Item	Unit	Quantity	Amount			Total (Exchange to YEN)	Remarks		
				US\$	LE	YEN				
I Construction Cost	I-1 Direct Cost	A. Civil Works	A-1. Excavation	L.S	1.0		4,438,016.50		28,802,000	
			A-2. Embankment	L.S	1.0		18,815,688.70		122,113,000	
			A-3. Demolition work	L.S	1.0		131,996.64		856,000	
			A-4. Sheet pile bank protection	L.S	1.0	636,160.04	5,394,080.56	6,996,465	114,106,000	
			A-5. Bed protection	L.S	1.0		5,023,275.06	10,700,560	43,301,000	
			A-6. Canal bed protection	L.S	1.0	196,050.69	2,641,631.39		39,364,000	
			A-7. Concrete work for regulators	L.S	1.0		44,873,249.71	686,206	291,913,000	
			A-8. Pile foundation work	L.S	1.0		13,382,883.34		86,854,000	
			A-9. Accessory works	L.S	1.0		19,516,170.59	17,569,265	144,229,000	
			A-10. Electric works	L.S	1.0		3,626,535.45	8,650,000	32,186,000	
			A-11. Gate manufactures and works	L.S	1.0		19,081,522.83	1,672,334.600	1,796,173,000	
			A-12. Expense of the machine and facilities	L.S	1.0	221,309.66	23,815,178.13	53,661,990	233,305,000	
			sub total (A. Civil works)					1,053,520.39	160,740,228.90	1,770,599,086
		B. Temporary Works	B-1. Temporary Coffor Dam	L.S	1.0	840,284.40	19,099,569.97	110,691,135	329,885,000	
			B-2. Single Sheet Pile	L.S	1.0	438,170.24	2,790,300.38	6,347,427	74,118,000	
			B-3. Temporary bridge	L.S	1.0		4,976,786.73	53,423,642	85,722,000	
			B-4. Dewatering	L.S	1.0		10,519,709.00		68,272,000	
			B-5. Temporary road & preparation	L.S	1.0		7,783,260.59		50,513,000	
			B-6. diversion works	L.S	1.0		11,759,640.95		76,320,000	
			B-7. Other temporary works	L.S	1.0		18,178,115.27	17,112,000	135,087,000	
			B-8. Transpotation / Shipment	L.S	1.0	1,913,684.57	13,325,895.23	75,199,059	378,581,000	
			sub total (B. Temporary works)					3,192,139.21	88,433,278.12	262,773,263
		C. Building Works	C-1. Control house	L.S	1.0		1,977,700.00		12,835,000	
			C-2. Local contrl house	L.S	1.0		301,900.00		1,959,000	
			C-3. Local contrl house	L.S	1.0		301,900.00		1,959,000	
			C-4. Stop log room	L.S	1.0		818,200.00		5,310,000	
			sub total (C. Building works)					3,399,700.00		22,064,000
		D. Integrated Water Management System	D-1. IWMS manufactures	L.S	1.0		15,676,546.12		101,740,000	
D-2. Installation for IWMS	L.S		1.0		15,951,897.71		103,527,000			
sub total (D. Integrated Water Management System)					31,628,443.83		205,268,000			
E. Dispute Board	E-1. Dispute Board	L.S	1.0	407,000.00			46,129,000			
	sub total (E. Dispute Board)					407,000.00		46,129,000		
					4,652,659.60	284,201,650.85	2,033,372,349	4,405,173,000		
I-2 Indirect Cost					1,485,994.40	93,278,928.15	186,287,138	960,089,000		
					6,138,654.00	377,480,579.00	2,219,659,487	5,365,263,000		
					13.0%	45.7%	41.3%			

II Consultant Service	Remuneration	L.S	1.0		10,092,110.00	230,823,000	296,320,000
	Direct Expense	L.S	1.0		7,039,178.00	46,603,230	92,287,000
					17,131,288.00	277,426,230	388,607,000
III Contingency for Construction	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		71,343,829.43	463,021,000
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0	257,823.47		93,225,698
	Physical Contingency	%	5.0	319,823.87	22,441,220.42	115,644,259	297,537,000
IV Contingency for Consultant Service	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		3,237,813.43	21,013,000
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0			11,651,902
	Physical Contingency	%	5.0		1,018,455.07	14,453,907	21,064,000
V Interest During Construction	0.01 %/year	L.S	1.0			20,100,000	20,100,000

Total Construction Cost (I~V)					6,716,301.34	492,653,185.36	2,752,161,483	6,710,705,000
					11.3%	47.6%	41.1%	

Project for Construction of the NDGRs

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

Exchange Rate	1USD= 113.34 (YEN)
	1EUR= 121.26 (YEN)
	1LE= 6.49 (YEN)

E-493

	Item	Unit	Quantity	Amount			Total (Exchange to YEN)	Remarks		
				US\$	LE	YEN				
I Construction Cost	I-1 Direct Cost	A. Civil Works	A-1. Excavation	L.S	1.0		4,767,928.80		30,943,000	
			A-2. Embankment	L.S	1.0		19,745,485.05		128,148,000	
			A-3. Demolition work	L.S	1.0		135,417.54		878,000	
			A-4. Sheet pile bank protection	L.S	1.0	636,160.04	5,483,872.01	6,996,465	114,689,000	
			A-5. Bed protection	L.S	1.0		5,296,595.82	10,700,560	45,075,000	
			A-6. Canal bed protection	L.S	1.0	196,050.69	2,747,557.23		40,052,000	
			A-7. Concrete work for regulators	L.S	1.0		46,856,694.01	686,206	304,786,000	
			A-8. Pile foundation work	L.S	1.0		13,785,612.89		89,468,000	
			A-9. Accessory works	L.S	1.0		20,278,361.20	17,569,265	149,175,000	
			A-10. Electric works	L.S	1.0		3,656,626.90	8,650,000	32,381,000	
			A-11. Gate manufactures and works	L.S	1.0		19,110,894.23	1,672,334.600	1,796,364,000	
			A-12. Expense of the machine and facilities	L.S	1.0	221,309.66	25,061,353.13	53,661,990	241,393,000	
			sub total (A. Civil works)					1,053,520.39	166,926,398.81	1,770,599,086
		B. Temporary Works	B-1. Temporary Coffor Dam	L.S	1.0	840,284.40	19,557,408.86	110,691,135	332,856,000	
			B-2. Single Sheet Pile	L.S	1.0	438,170.24	2,787,039.42	6,347,427	74,097,000	
			B-3. Temporary bridge	L.S	1.0		5,042,516.27	53,423,642	86,149,000	
			B-4. Dewatering	L.S	1.0		10,519,208.20		68,269,000	
			B-5. Temporary road & preparation	L.S	1.0		8,144,996.97		52,861,000	
			B-6. diversion works	L.S	1.0		11,970,341.42		77,687,000	
			B-7. Other temporary works	L.S	1.0		18,389,197.45	17,112,000	136,457,000	
			B-8. Transpotation / Shipment	L.S	1.0	1,913,684.57	12,886,720.07	75,199,040	375,730,000	
		sub total (B. Temporary works)					3,192,139.21	89,297,428.66	262,773,244	1,204,110,000
		C. Building Works	C-1. Control house	L.S	1.0		1,977,700.00		12,835,000	
C-2. Local contrl house	L.S		1.0		301,900.00		1,959,000			
C-3. Local contrl house	L.S		1.0		301,900.00		1,959,000			
C-4. Stop log room	L.S		1.0		818,200.00		5,310,000			
sub total (C. Building works)						3,399,700.00		22,064,000		
D. Integrated Water Management System	D-1. IWMS manufactures	L.S	1.0		15,676,546.12		101,740,000			
	D-2. Installation for IWMS	L.S	1.0		15,951,897.71		103,527,000			
sub total (D. Integrated Water Management System)						31,628,443.83		205,268,000		
E. Dispute Board	E-1. Dispute Board	L.S	1.0	407,000.00			46,129,000			
sub total (E. Dispute Board)					407,000.00			46,129,000		
					4,652,659.60	291,251,971.30	2,033,372,330	4,450,930,000		
I-2 Indirect Cost					1,485,994.40	95,858,809.70	186,287,131	976,833,000		
					6,138,654.00	387,110,781.00	2,219,659,461	5,427,763,000		
					12.8%	46.3%	40.9%			

II Consultant Service	Remuneration	L.S	1.0		11,490,687.00	230,823,000	305,397,000	
	Direct Expense	L.S	1.0		6,807,460.00	46,603,230	90,783,000	
					18,298,147.00	277,426,230	396,180,000	
III Contingency for Construction	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		73,163,937.61		474,834,000
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0	257,823.47		93,225,697	122,448,000
	Physical Contingency		%	5.0	319,823.87	23,013,735.93	115,644,258	301,252,000
IV Contingency for Consultant Service	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		3,458,349.78		22,445,000
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0			11,651,902	11,652,000
	Physical Contingency		%	5.0		1,087,824.84	14,453,907	21,514,000
V Interest During Construction	0.01 %/year	L.S	1.0				20,400,000	20,400,000

Total Construction Cost (I~V)					6,716,301.34	506,132,776.16	2,752,461,455	6,798,488,000
					11.2%	48.3%	40.5%	

Project for Construction of the NDGRs

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

Exchange Rate	1USD= 113.34 (YEN)
	1EUR= 121.26 (YEN)
	1LE= 6.49 (YEN)

	Item	Unit	Quantity	Amount			Total (Exchange to YEN)	Remarks		
				US\$	LE	YEN				
I Construction Cost	I-1 Direct Cost	A. Civil Works	A-1. Excavation	L.S	1.0		2,983,317.60		19,361,000	
			A-2. Embankment	L.S	1.0		12,339,320.66		80,082,000	
			A-3. Demolition work	L.S	1.0		90,550.02		587,000	
			A-4. Sheet pile bank protection	L.S	1.0	636,160.04	5,016,900.71	6,996,465	111,658,000	
			A-5. Bed protection	L.S	1.0		4,652,046.73	10,700,560	40,892,000	
			A-6. Canal bed protection	L.S	1.0	196,050.69	1,866,835.18		34,336,000	
			A-7. Concrete work for regulators	L.S	1.0		42,316,592.79	686,206	275,320,000	
			A-8. Pile foundation work	L.S	1.0		13,202,063.72		85,681,000	
			A-9. Accessory works	L.S	1.0		18,579,853.79	17,569,265	138,152,000	
			A-10. Electric works	L.S	1.0		3,886,424.06	8,650,000	33,872,000	
			A-11. Gate manufactures and works	L.S	1.0		18,440,253.53	1,672,334,600	1,792,011,000	
			A-12. Expense of the machine and facilities	L.S	1.0	221,309.66	20,782,686.80	53,661,990	213,624,000	
			sub total (A. Civil works)					1,053,520.39	144,156,845.59	1,770,599,086
		B. Temporary Works	B-1. Temporary Coffor Dam	L.S	1.0	840,284.40	14,254,269.84	110,691,135	298,439,000	
			B-2. Single Sheet Pile	L.S	1.0	438,170.24	2,041,534.12	6,347,427	69,259,000	
			B-3. Temporary bridge	L.S	1.0		3,257,379.37	53,423,642	74,564,000	
			B-4. Dewatering	L.S	1.0		9,863,770.00		64,015,000	
			B-5. Temporary road & preparation	L.S	1.0		5,188,325.85		33,672,000	
			B-6. diversion works	L.S	1.0		10,489,883.36		68,079,000	
			B-7. Other temporary works	L.S	1.0		13,995,481.18	17,112,000	107,942,000	
			B-8. Transpotation / Shipment	L.S	1.0	1,913,684.57	18,428,520.10	75,199,266	411,697,000	
			sub total (B. Temporary works)					3,192,139.21	77,519,163.82	262,773,470
		C. Building Works	C-1. Control house	L.S	1.0		1,977,700.00		12,835,000	
			C-2. Local contrl house	L.S	1.0		301,900.00		1,959,000	
			C-3. Local contrl house	L.S	1.0		301,900.00		1,959,000	
C-4. Stop log room	L.S		1.0		818,200.00		5,310,000			
sub total (C. Building works)					3,399,700.00		22,064,000			
D. Integrated Water Management System	D-1. IWMS manufactures	L.S	1.0		15,676,546.12		101,740,000			
	D-2. Installation for IWMS	L.S	1.0		15,951,897.71		103,527,000			
	sub total (D. Integrated Water Management System)					31,628,443.83		205,268,000		
E. Dispute Board	E-1. Dispute Board	L.S	1.0	407,000.00			46,129,000			
	sub total (E. Dispute Board)					407,000.00		46,129,000		
					4,652,659.60	256,704,153.24	2,033,372,556	4,226,714,000		
I-2 Indirect Cost					1,485,994.40	84,267,302.76	186,287,212	901,604,000		
					6,138,654.00	340,971,456.00	2,219,659,768	5,128,320,000		
					13.6%	43.2%	43.2%			

II Consultant Service	Remuneration	L.S	1.0		12,205,761.00	230,823,000	310,038,000	
	Direct Expense	L.S	1.0		7,164,050.00	46,603,230	93,097,000	
					19,369,811.00	277,426,230	403,135,000	
III Contingency for Construction	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		64,443,605.18		418,239,000
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0	257,823.47		93,225,710	122,448,000
	Physical Contingency	%	5.0	319,823.87	20,270,753.06	115,644,274	283,450,000	
IV Contingency for Consultant Service	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		3,660,894.28		23,759,000
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0			11,651,902	11,652,000
	Physical Contingency	%	5.0		1,151,535.26	14,453,907	21,927,000	
V Interest During Construction	0.01 %/year	L.S	1.0			19,300,000	19,300,000	

Total Construction Cost (I~V)					6,716,301.34	449,868,054.79	2,751,361,790	6,432,230,000
					11.8%	45.4%	42.8%	

APPENDIX E-8

Project Cost Estimation (Summary, Detail and Breakdown)

E-8-1. Summary of the Project Cost Estimation	E-496
E-8-2. Bill of Quantities	E-498
E-8-3. Detail of the Project Cost Estimation	E-511
E-8-4. Breakdown	E-595
E-8-5. Unit Price List	E-877

E-8-1. Summary of the Project Cost Estimation

Project for Construction of the NDGRs

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

Exchange Rate	1USD= 113.34 (YEN)
	1EUR= 121.26 (YEN)
	1LE= 6.49 (YEN)

	Item	Unit	Quantity	Amount			Total (Exchange to YEN)	Remarks		
				US\$	LE	YEN				
E-497	I-1 Direct Cost	A. Civil Works	A-1. Excavation	L.S	1.0		4,438,016.50		28,802,000	
			A-2. Embankment	L.S	1.0		18,815,688.70		122,113,000	
			A-3. Demolition work	L.S	1.0		131,996.64		856,000	
			A-4. Sheet pile bank protection	L.S	1.0	636,160.04	5,394,080.56	6,996,465	114,106,000	
			A-5. Bank protection	L.S	1.0		5,023,275.06	10,700,560	43,301,000	
			A-6. Canal bed protection	L.S	1.0	196,050.69	2,641,631.39		39,364,000	
			A-7. Concrete work for regulators	L.S	1.0		44,873,249.71	686,206	291,913,000	
			A-8. Pile foundation work	L.S	1.0		13,382,883.34		86,854,000	
			A-9. Accessory works	L.S	1.0		19,516,170.59	17,569,265	144,229,000	
			A-10. Electric works	L.S	1.0		3,626,535.45	8,650,000	32,186,000	
			A-11. Gate manufactures and works	L.S	1.0		19,081,522.83	1,672,334.600	1,796,173,000	
			A-12. Expense of the machine and facilities	L.S	1.0	221,309.66	23,815,178.13	53,661,990	233,305,000	
			sub total (A. Civil works)					1,053,520.39	160,740,228.90	1,770,599,086
		B. Temporary Works	B-1. Temporary Coffor Dam	L.S	1.0	840,284.40	19,099,569.97	110,691,135	329,885,000	
			B-2. Single Sheet Pile	L.S	1.0	438,170.24	2,790,300.38	6,347,427	74,118,000	
			B-3. Temporary bridge	L.S	1.0		4,976,786.73	53,423,642	85,722,000	
			B-4. Dewatering	L.S	1.0		10,519,709.00		68,272,000	
			B-5. Temporary road & preparation	L.S	1.0		7,783,260.59		50,513,000	
			B-6. diversion works	L.S	1.0		11,759,640.95		76,320,000	
			B-7. Other temporary works	L.S	1.0		18,178,115.27	17,112,000	135,087,000	
			B-8. Transpotation / Shipment	L.S	1.0	1,913,684.57	13,325,895.23	75,199,059	378,581,000	
		sub total (B. Temporary works)					3,192,139.21	88,433,278.12	262,773,263	1,198,502,000
		C. Building Works	C-1. Control house	L.S	1.0		1,977,700.00		12,835,000	
			C-2. Local contrl house	L.S	1.0		301,900.00		1,959,000	
			C-3. Local contrl house	L.S	1.0		301,900.00		1,959,000	
C-4. Stop log room	L.S		1.0		818,200.00		5,310,000			
sub total (C. Building works)						3,399,700.00		22,064,000		
D. Integrated Water Management System	D-1. IWMS manufactures	L.S	1.0		15,676,546.12		101,740,000			
	D-2. Installation for IWMS	L.S	1.0		15,951,897.71		103,527,000			
sub total (D. Integrated Water Management System)						31,628,443.83		205,268,000		
E. Dispute Board	E-1. Dispute Board	L.S	1.0	407,000.00			46,129,000			
sub total (E. Dispute Board)					407,000.00		46,129,000			
					4,652,659.60	284,201,650.85	2,033,372,349	4,405,173,000		
I-2 Indirect Cost					1,485,994.40	93,278,928.15	186,287,138	960,089,000		
					6,138,654.00	377,480,579.00	2,219,659,487	5,365,263,000		
					13.0%	45.7%	41.3%			

II Consultant Service	Remuneration	L.S	1.0		10,092,110.00	230,823,000	296,320,000	
	Direct Expense	L.S	1.0		7,039,178.00	46,603,230	92,287,000	
					17,131,288.00	277,426,230	388,607,000	
III Contingency for Construction	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		71,343,829.43	463,021,000	
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0	257,823.47		93,225,698	122,448,000
Physical Contingency			%	5.0	319,823.87	22,441,220.42	115,644,259	297,537,000
IV Contingency for Consultant Service	Price Contingency	LC: 1.0%/year, total ratio is 18.9%	L.S	1.0		3,237,813.43	21,013,000	
		FC: 1.6%/year, total ratio is 4.2%	L.S	1.0			11,651,902	11,652,000
Physical Contingency			%	5.0	1,018,455.07	14,453,907	21,064,000	
V Interest During Construction	0.01 %/year	L.S	1.0			20,100,000	20,100,000	

Total Construction Cost (I~V)					6,716,301.34	492,653,185.36	2,752,161,483	6,710,705,000
					11.3%	47.6%	41.1%	

E-8-2. Bill of Quantities

Project for Construction of the New Dirout Group of regulators (1/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount		Exchange to YEN	Remarks
						US\$	LE	YEN	US\$	YEN		
Construction Cost												
I-1 Direct Cost												
A. Civil Works												
A-1. Excavation	A-1-1. Excavation	1. excavation	1). excavation and loading	0.8m3 back hoe	m3	23,390.0		19.82		463,589.80		3,008,698
			2). excavation for concrete basement	0.8m3 back hoe	m3	1,320.0		28.32		37,382.40		242,612
		sum								500,972.20		3,251,310
		2. excavated soil disposal	1). excavated soil disposal	Distance 20km	m3	24,710.0		159.33		3,937,044.30		25,551,418
	total									4,438,016.50		28,802,727
A-2. Embankment	A-2-1. Embankment	1. Embankment	1). backfill 1	15t bulldozer	m3	76,490.0		37.90		2,898,971.00		18,814,322
			2). backfill 2	vibration roller,tamping machine	m3	7,470.0		45.37		338,913.90		2,199,551
			3). material fee for backfill	sand	m3	60,873.0		67.10		4,084,578.30		26,508,913
		sum								7,322,463.20		47,522,786
		2. transportation fee for buying material	1). excavation and loading	0.8m3 back hoe loose soil	m3	60,873.0		19.22		1,169,979.06		7,593,164
			2). transportation by damp truck	Distance 20km	m3	60,873.0		135.51		8,248,900.23		53,535,362
		sum								9,418,879.29		61,128,527
		3. transportation fee for reused material	1). excavation and loading	0.8m3 back hoe loose soil	m3	45,183.0		19.22		868,417.26		5,636,028
			2). transportation by damp truck	Distance 0.3km	m3	45,183.0		18.47		834,530.01		5,416,100
		sum								1,702,947.27		11,052,128
		4. Earth finishing	1). earth finishing foundation		m3	4,640.0		7.36		34,150.40		221,636
			2). rough finishing	0.8m3 back hoe	m2	1,610.0		34.70		55,867.00		362,577
		sum								90,017.40		584,213
		5. protection fence for waterpollution	1). protection fence		m	253.0		1,112.18		281,381.54		1,826,166
	total									18,815,688.70		122,113,820
A-3. Demolition work	A-3-1. Demolition work	1. Demolition work	1). concrete demolition	reinforced concrete	m3	195.4		469.06		91,663.70		594,897
			2). concrete demolition	plain concrete	m3	5.8		224.59		1,298.13		8,425
			3). broken concrete disposal	Distance 20km	m3	201.2		194.01		39,034.81		253,336
	total									131,996.64		856,658
A-4. Sheet pile bank protection	A-4-1. Capping concrete	1. crown works	1). formwork	reinforced concrete	m2	1,663.9		400.74		666,791.28		4,327,475
			2). placing reinforced concrete	25N/mm2 by crane	m3	517.9		1,356.29		702,409.02		4,558,635
			3). curing	reinforced concrete	m3	517.9		7.83		4,055.07		26,317
			4). bending,cutting and placing for re-bar	D12	t	13.6		18,857.16		256,777.94		1,666,489
			5). joint filler	@10m	m2	53.5		403.70		21,614.09		140,275
	sub total									1,651,647.40		10,719,192
	A-4-2. Sheet pile	1. Sheet pile protection	1). driving sheet pile	PU18, L≤15m (driving length)	sheet	126.0		1,466.45		184,772.70		1,199,175
				PU18, L≤12m (driving length)	sheet	146.0		1,231.17		179,750.82		1,166,583
				PU18, L≤9m (driving length)	sheet	43.0		997.84		42,907.12		278,467
				PU12, L≤12m (driving length)	sheet			1,055.19				
				PU12, L≤9m (driving length)	sheet	62.0		880.52		54,592.24		354,304
				PU12, L≤6m (driving length)	sheet	486.0		761.90		370,283.40		2,403,139
				PU12, L≤4m (driving length)	sheet			645.24				
				PU12, L≤2m (driving length)	sheet			527.92				
			2). Sheet pile press fitting	PU, L≤15m (driving length)	sheet			165.71	5,233			
				PU, L≤12m (driving length)	sheet			130.98	4,139			
			3). Mobilization & demobilization	press fitting machine for sheet pile	nos			700.36	19,332			
			4). material fee for sheet pile	PU12, 18	t	722.1	881.00			636,160.04		72,102,379
			5). installation for tie-rod and waling		t	47.7		3,311.13		157,866.66		1,024,555
			6). material fee for tie-rod (NHT690)	φ46 L=10.0m 2pcs/rod	nos	2.0			68,175		136,350	136,350
				φ46 L=11.0m 2pcs/rod	nos	2.0			74,295		148,590	148,590
				φ46 L=11.5m 2pcs/rod	nos	23.0			77,040		1,771,920	1,771,920
				φ46 L=12.0m 2pcs/rod	nos	20.0			79,785		1,595,700	1,595,700
				φ46 L=13.0m 2pcs/rod	nos	2.0			85,905		171,810	171,810
				φ46 L=13.5m 2pcs/rod	nos	8.0			89,325		714,600	714,600
				φ46 L=14.0m 2pcs/rod	nos	6.0			92,025		552,150	552,150
				φ42 L=12.0m 2pcs/rod	nos	8.0			51,255		410,040	410,040
				φ42 L=9.0m 2pcs/rod	nos	2.0			53,595		107,190	107,190
				φ42 L=8.5m 2pcs/rod	nos	9.0			69,480		625,320	625,320
				φ32L=7.5m 2pcs/rod	nos	22.0			27,990		615,780	615,780
				φ32 L=8.0m 2pcs/rod	nos	1.0			29,385		29,385	29,385
				φ32 L=9.0m 2pcs/rod	nos	1.0			32,670		32,670	32,670

Project for Construction of the New Dirout Group of regulators (2/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

	Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks
							US\$	LE	YEN	US\$	LE	YEN		
				φ25 L=7.5m 2pcs/rod	nos	4.0			21,240			84,960	84,960	
				7). material fee for waling	t	32.7		12,553.60				410,389.73	2,663,429	
				8). sheet pile welding	nos	293.0		1,944.85				569,841.05	3,698,268	
				9). anticorrosion painting (bitumen)	m2	7,145.3		248.00				1,772,029.44	11,500,471	
		sub total									636,160.04	3,742,433.16	6,996,465	103,387,235
	total										636,160.04	5,394,080.56	6,996,465	114,106,427
A-5. Bank protection	A-5-1. Bank protection	1. Riprap		1). wet stone pitching	m2	2,008.8		841.71				1,690,827.04	10,973,467	
				2). placing backfill concrete	m3	161.4		1,479.36				238,709.52	1,549,225	
				3). curing	m3	161.4		12.92				2,084.77	13,530	
		sum										1,931,621.33	12,536,222	
		2. crown works		1). form for lean concrete	m2	10.2		209.60				2,137.92	13,875	
				2). placing lean concrete	m3	1.8		1,479.36				2,640.65	17,138	
				3). curing	m3	1.8		12.92				23.06	150	
				4). formwork	m2	107.8		355.10				38,295.03	248,535	
				5). placing plain concrete	m3	16.0		1,109.76				17,750.61	115,201	
				6). curing	m3	17.8		30.22				537.31	3,487	
				7). gravel for under concrete	m2	3.6		99.31				354.53	2,301	
				8). joint filler	m2	1.3		45.20				59.93	389	
		sum										61,799.04	401,076	
		3. base concrete		1). form for lean concrete	m2	10.7		209.60				2,232.24	14,487	
				2). placing lean concrete	m3	2.7		1,479.36				3,938.79	25,563	
				3). curing	m3	2.7		12.92				34.39	223	
				4). formwork	m2	104.4		355.10				37,089.90	240,713	
				5). placing plain concrete	m3	16.4		1,109.76				18,201.72	118,129	
				6). curing	m3	16.4		30.22				495.65	3,217	
				7). gravel for under concrete	m2	4.5		99.31				445.55	2,892	
				8). joint filler	m2	1.7		45.20				75.27	489	
		sum										62,513.51	405,713	
		4. gabion protection		1). installation for gabion	nos	1,184.0		1,173.37		3,990		1,389,270.08	4,724,160	13,740,523
					nos	670.0		2,355.33		8,920		1,578,071.10	5,976,400	16,218,081
		sum										2,967,341.18	10,700,560	29,958,604
	total											5,023,275.06	10,700,560	43,301,615
A-6. Canal bed protection	A-6-1. bed protection for upstream	1. Bed protection for upstream		1). stone riprap	m3	956.5		606.24				579,868.56	3,763,347	
				2). grading for riprap	m2	1,952.0		76.86				150,030.72	973,699	
		sum										729,899.28	4,737,046	
	A-6-2. bed protection for downstream	1. Bed protection for downstream		1). stone riprap	m3	1,701.0		606.24				1,031,214.24	6,692,580	
				2). grading for riprap	m2	1,890.0		76.86				145,265.40	942,772	
				3). gravel for backfill	m3	208.5		746.76				155,699.46	1,010,489	
				4). geotextile	m2	2,085.0		46.42				96,785.70	628,139	
		sum										1,428,964.80	9,273,982	
	A-6-3. Sheet pile for water stop	1. Sheet pile for water stop		1). driving sheet pile	sheet	1.0		1,466.45				1,466.45	9,517	
				PU18, L≤12m (driving length)	sheet	3.0		1,231.17				3,693.51	23,971	
				PU18, L≤9m (driving length)	sheet	4.0		997.84				3,991.36	25,904	
				PU12, L≤12m (driving length)	sheet	120.0		1,055.19				126,622.80	821,782	
				PU12, L≤9m (driving length)	sheet	8.0		880.52				7,044.16	45,717	
				PU12, L≤6m (driving length)	sheet	122.0		761.90				92,951.80	603,257	
				PU12, L≤4m (driving length)	sheet	120.0		645.24				77,428.80	502,513	
				PU12, L≤2m (driving length)	sheet	104.0		527.92				54,903.68	356,325	
				2). material fee for sheet pile	t	222.5	881.00				196,050.69		22,220,385	
				3). sheet pile welding	nos	31.0		1,944.85				60,290.35	391,284	
				4). anticorrosion painting	m2	193.7		248.00				48,032.64	311,732	
				5). sheet pile cutting	m	24.0		264.24				6,341.76	41,158	
		sum										196,050.69	482,767.31	25,353,545
	total											196,050.69	2,641,631.39	39,364,573
A-7. Concrete work for regulators	A-7-1. concrete works	regulator body		1). earth foundation finishing	m2	4,553.1		28.06				127,759.42	829,159	
				2). form for lean concrete	m2	51.9		209.60				10,882.43	70,627	
				3). placing lean concrete	m3	403.1		1,326.22				534,599.28	3,469,549	
				4). curing	m3	403.1		12.92				5,208.05	33,800	
				5). formwork	m2	14,302.0		400.74				5,731,375.46	37,196,627	

Project for Construction of the New Dirout Group of regulators (3/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

	Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks
							US\$	LE	YEN	US\$	LE	YEN		
				6). formwork	circular structure	m2	490.7		525.17		257,706.17		1,672,513	
				7). placing concrete	25N/mm2(src, night time)	m3	14,667.0		1,446.03		21,208,922.01		137,645,904	
				8). placing concrete	25N/mm2(opc)	m3	1,372.5		1,356.29		1,861,467.33		12,080,923	
				9). curing	reinforced concrete	m3	16,039.5		7.83		125,589.05		815,073	
				10). bending, cutting and placing for re-bar	D13~D25mm	t	586.0		17,805.74		10,434,680.00		67,721,073	
				11). scaffolding	not less than 4m	m2	10,755.1		161.52		1,737,170.21		11,274,235	
				12). pipe support falsework	not greater than 4t/m2	m3	4,360.7		144.07		628,244.60		4,077,307	
				13). joint filler	t=20mm	m2	488.7		403.70		197,284.15		1,280,374	
				14). water stop	w=300mm	m	251.0		37.54	2,214	9,423.29	555,758	616,915	
				15). water stop	water-swelling	m	66.1		16.56	1,975	1,093.78	130,448	137,547	
				16). additive for rust-proofing	for reinforced concrete	m3	16,039.5		124.81		2,001,844.48		12,991,971	
		total									44,873,249.71	686,206	291,913,597	
A-8. Pile foundation work	A-8-1. Cast-in-place RC pile	φ1,000		1). mobilization and demobilization		L.S	2.0		297,720.00		595,440.00		3,864,406	
				2). pile drilling	including fabricate and lowering steel cage and pour concrete	m	2,429.6		1,712.00		4,159,475.20		26,994,994	
				3). placing concrete	25N/mm2(src)	m3	1,908.2		1,386.07		2,644,903.45		17,165,423	
				4). bending, cutting and placing for re-bar		t	301.0		17,805.74		5,359,812.63		34,785,184	
				5). pile head demolishing	φ1,000, 0.8m	m3	120.6		469.06		56,586.06		367,244	
				6). load test		L.S	2.0		283,333.00		566,666.00		3,677,662	
		total									13,382,883.34		86,854,913	
A-9. Accessory works	A-9-1. Road works		1. Asphalt pavement roadway	1). embankment		m3	10,225.3		37.90		387,539.62		2,515,132	
				material fee for temporary road	sand	m3	12,916.2		67.10		866,676.59		5,624,731	
				transportation fee for buying material										
				excavation and loading	0.8m3 back hoe loose soil	m3	12,916.2		19.22		248,249.24		1,611,138	
				transportation by dump truck	Distance 20km	m3	12,916.2		135.51		1,750,273.40		11,359,274	
				2). wearing course	t=50mm	m2	4,379.6		143.00		626,287.09		4,064,603	
				3). binder course	t=60mm	m2	4,379.6		143.00		626,287.09		4,064,603	
				4). base course	t=200mm	m2	4,379.6		132.78		581,527.27		3,774,112	
				5). sub base course	t=200mm	m2	4,379.6		132.78		581,527.27		3,774,112	
				6). tack coat		m2	4,379.6		16.00		70,074.08		454,781	
				7). prime coat		m2	4,379.6		19.00		83,212.97		540,052	
			sum								5,821,654.62		37,782,538	
			2. Asphalt pavement pathway	1). wearing course	t=50mm	m2	623.7		143.00		89,191.96		578,856	
				2). base course	t=200mm	m2	623.7		132.78		82,817.54		537,486	
				3). prime coat		m2	623.7		19.00		11,850.68		76,911	
			sum								183,860.18		1,193,253	
			3. curb concrete	1). form for lean concrete		m2	127.3		209.60		26,689.20		173,213	
				2). placing lean concrete	18N/mm2 by crane	m3	20.7		1,479.36		30,585.21		198,498	
				3). curing	plain concrete	m3	20.7		12.92		267.11		1,734	
				3). formwork	for small structure	m2	964.9		355.10		342,646.12		2,223,773	
				4). placing plain concrete	18N/mm2 by man power	m3	109.5		1,109.76		121,480.35		788,407	
				5). curing	small structure	m3	109.5		30.22		3,308.04		21,469	
				6). gravel for under concrete	t=100mm	m2	41.3		99.31		4,106.39		26,650	
			sum								529,082.42		3,433,745	
			4. guard pipe	H=1.1m		m	629.81		1,212.12		763,405.29		4,954,500	
			5. slope protection	1). stone masonry with mortar	t=35cm	m2	1,765.25		841.71		1,485,828.57		9,643,027	
				2). placing backfill concrete	18N/mm2 by crane	m3	214.54		1,479.36		317,374.66		2,059,762	
				3). curing	plain concrete	m3	214.54		12.92		2,771.79		17,989	
			sum								1,805,975.02		11,720,778	
			6. crown concrete	1). form for lean concrete		m2	47.9		209.60		10,031.45		65,104	
				2). placing lean concrete	18N/mm2 by crane	m3	7.9		1,479.36		11,751.29		76,266	
				3). curing	plain concrete	m3	7.9		12.92		102.63		666	
				4). formwork	for small structure	m2	395.9		355.10		140,574.81		912,331	
				5). placing plain concrete	18N/mm2 by man power	m3	59.1		1,109.76		65,531.32		425,298	
				6). curing	small structure	m3	20.7		30.22		624.78		4,055	
				7). gravel for under concrete	t=100mm	m2	15.9		99.31		1,577.73		10,239	
				8). joint filler	expansion joint	m2	5.9		45.20		266.90		1,732	
			sum								230,460.91		1,495,691	
			7. base concrete	1). form for lean concrete		m2	53.7		209.60		11,250.69		73,017	
				2). placing lean concrete	18N/mm2 by crane	m3	13.4		1,479.36		19,851.90		128,839	

Project for Construction of the New Dirout Group of regulators (4/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks	
						US\$	LE	YEN	US\$	LE	YEN			
			3). curing	plain concrete	m3	13.4		12.92			173.37		1,125	
			4). formwork	for small structure	m2	474.3		355.10			168,431.08		1,093,118	
			5). placing plain concrete	18N/mm2 by man power	m3	72.5		1,109.76			80,417.59		521,910	
			6). curing	small structure	m3	72.5		30.22			2,189.86		14,212	
			7). gravel for under concrete	t=100mm	m2	18.8		99.31			1,865.73		12,109	
			8). joint filler	expansion joint	m2	7.2		45.20			327.53		2,126	
			sum								284,507.75		1,846,455	
	8. concrete stair		1). form for lean concrete		m2	16.9		209.60			3,535.78		22,947	
			2). placing lean concrete	18N/mm2 by crane	m3	8.4		1,479.36			12,417.03		80,587	
			3). curing	plain concrete	m3	8.4		12.92			108.44		704	
			4). formwork	reinforced concrete	m2	118.6		400.74			47,509.37		308,336	
			5). placing concrete	25N/mm2(opc)	m3	31.0		1,356.29			42,068.86		273,027	
			6). curing	reinforced concrete	m3	31.0		7.83			242.86		1,576	
			7). gravel for under concrete	t=100mm	m2	12.5		99.31			1,243.54		8,071	
			8). bending, cutting and placing for re-bar	D12	t	0.4		18,857.16			7,970.69		51,730	
			sum								115,096.57		746,977	
	sub total										9,734,042.76		63,173,938	
A-9-2. Bridge works	1. concrete work		1). formwork	reinforced concrete	m2	1,696.3		400.74			679,775.92		4,411,746	
			2). placing concrete	25N/mm2(opc)	m3	548.9		1,356.29			744,406.81		4,831,200	
			3). curing	reinforced concrete	m3	548.9		7.83			4,297.53		27,891	
			4). bending, cutting and placing for re-bar	D12	t	105.1		18,857.16			1,981,642.37		12,860,859	
			5). pipe support falsework	not greater than 4t/m2	m3	6,121.3		144.07			881,888.48		5,723,456	
			6). Styrofoam	t=20~150mm	m3	14.0			26,190			366,607	366,607	
			sum								4,292,011.11	366,607	28,221,759	
	2. shoe		1). rubber bearing	330×150×40	nos	20.0			11,760			235,200	235,200	
				330×300×40	nos	40.0			23,590			943,600	943,600	
				150×10,000×20	nos	2.0			108,780			2,175,600	217,560	
				300×10,000×20	nos	5.0			217,560			1,087,800	1,087,800	
			2). corrosion-proof anchor	Fixed, F25D	nos	12.0			6,930			83,160	83,160	
				Movable, M25D	nos	20.0			8,260			165,200	165,200	
				for F25D	nos	12.0			1,190			14,280	14,280	
				for M25D	nos	20.0			2,940			58,800	58,800	
			sum									2,805,600	2,805,600	
	3. steel expansion joint		1). expansion joint (brof joint)	displacement_∠=20mm	m	24.2		232.34	35,190		5,622.62	851,598	888,089	
			2). expansion joint (brof joint)	displacement_∠=35mm	m	96.8		232.34	55,800		22,490.51	5,401,440	5,547,403	
			3). Anchor bar	D12	t	0.6		11,442.00			7,029.08		45,619	
			sum								35,142.21	6,253,038	6,481,111	
	4. balustrade for bridge		1). balustrade	h=1.100	m	165.2		1,212.12			200,242.22		1,299,572	
			2). Anchor bar	D12	t	0.6		11,442.00			7,029.08		45,619	
			sum								207,271.30		1,345,191	
	sub total										4,534,424.62	9,425,245	38,853,661	
A-9-3. Approach slab	1. concrete work		1). formwork	reinforced concrete	m2	96.0		400.74			38,471.04		249,677	
			2). placing concrete	25N/mm2(opc)	m3	160.0		1,356.29			217,006.40		1,408,372	
			3). curing	reinforced concrete	m3	160.0		7.83			1,252.80		8,131	
			4). bending, cutting and placing for re-bar	D22	t	14.2		17,805.74			253,553.73		1,645,564	
			5). Anchor cap	SGP φ40×80	nos	200.0		67.00			13,400.00		86,966	
			6). Anchor bar	D22×500×200nos	t	0.3		11,442.00			3,478.36		22,575	
			7). joint filler	expansion joint	m2	34.4		45.20			1,554.88		10,091	
			sum								528,717.21		3,431,375	
	2. shoe		1). rubber shoe	t=30mm	m2	24.0			166,050			3,985,200	3,985,200	
	sub total										528,717.21	3,985,200	7,416,575	
A-9-4. Accessory works around regulator	1. accessory work for gate		1). formwork for post-placing concrete	reinforced concrete	m2	1,248.8		400.74			500,448.11		3,247,908	
			2). post-placing concrete	25N/mm2(src, night time)	m3	340.2		1,446.03			491,953.86		3,192,781	
			3). post-placing concrete	25N/mm2(opc)	m3	7.5		1,356.29			10,185.73		66,105	
			4). curing	for post-placing concrete	m3	347.7		7.83			2,722.64		17,670	
			5). joint bar	D22	t	2.9		11,442.00			33,457.14		217,137	
			6). installation for joint bar	D22	nos	7,900.0		83.45			659,255.00		4,278,565	
			sum								1,698,022.48		11,020,166	
	2. hydraulic pipe pit works		1). form for lean concrete		m2	9.1		209.60			1,909.45		12,392	

Project for Construction of the New Dirout Group of regulators (5/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE= 6.49 (YEN)
---	---------------	--------------------	--------------------	-----------------

Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks	
						US\$	LE	YEN	US\$	LE	YEN			
		2).	placing lean concrete	18N/mm2 by crane	m3	10.5			1,479.36			15,562.86	101,003	
		3).	curing	plain concrete	m3	10.5			12.92			135.91	882	
		4).	formwork	reinforced concrete	m2	374.7			400.74			150,169.30	974,599	
		5).	placing concrete	25N/mm2(opc)	m3	85.8			1,356.29			116,383.24	755,327	
		6).	curing	reinforced concrete	m3	85.8			7.83			671.89	4,361	
		7).	bending, cutting and placing for re-bar	D22	t	8.5			17,805.74			151,687.09	984,449	
		8).	scaffolding	not less than 4m	m2	160.1			161.52			25,865.81	167,869	
		9).	pipe support falsework	not greater than 4l/m2	m3	92.0			144.07			13,250.11	85,993	
		10).	water stop	w=300mm	m	16.8			37.54	2,214		630.67	37,195	41,288
		11).	joint filler	expansion joint	m2	5.1			45.20			231.87	1,505	
		12).	joint filler	construction joint	m2	0.6			403.70			250.29	1,624	
		13).	checker plate	t=3.2mm	m2	1.0			349.41			342.41	2,222	
				t=4.5mm	m2	18.8			476.12			8,946.24	58,061	
		14).	Anchor bar	D16	t	0.0			11,442.00			57.11	371	
		15).	installation for hydraulic pipe	SUS 32A	m	4,004.0			75.50			302,302.00	1,961,940	
		sum										788,396.25	37,195	5,153,887
	3. steel stairs	1).	steel stairs		L.S	2.0			129,944.00			259,888.00	1,686,673	
		2).	foundation for support		L.S	2.0			14,774.67			29,549.34	191,775	
		sum										289,437.34	1,878,448	
	4. installation for grating			IB, 44x5x3	m2	227.8			232.34	18,090		52,936.34	4,121,625	4,465,182
	5. installation for handrail			H=1.1m	m	563.2			1,395.28			785,821.69	5,099,983	
	6. crane facility	1).	chain block	manual operation, 5t	L.S	2.0			32,157.16			64,314.32	417,400	
		2).	nail	l 300x150x10x18.5	t	1.1			15,692.00			16,711.98	108,461	
		sum										81,026.30	525,861	
	7. installation for steel steps		b=300mm		nos	765.0			370.65			283,547.25	1,840,222	
	8. staff gauge				m	65.2			1,664.10			108,416.02	703,620	
	9. gate lighting	1).	high pressure mercury lamp	400W	nos	6.0			5,075.00			30,450.00	197,621	
		2).	installation for gate lighting		nos	6.0			18,533.63			111,201.78	721,700	
		sum										141,651.78	919,320	
	10. water level detector	1).	water level detector	DC4-20A	nos	13.0			34,927.58			454,058.55	2,946,840	
		2).	installation for water level detector		nos	13.0			2,744.00			35,672.00	231,511	
		sum										489,730.55	3,178,351	
	sub total											4,718,986.00	4,158,820	34,785,039
	total											19,516,170.59	17,569,265	144,229,212
A-10. Electric works	A-10-1. installation for facilities of receiving po	1. Installation for power receiving and distribut	1).	installation for power receiving and distribution panel	nos	1.0			3,388.00			3,388.00	21,988	
			2).	emergency generator with panel	nos	1.0				8,650,000			8,650,000	8,650,000
			3).	installation for backup generator	nos	1.0			33,246.50			33,246.50	215,770	
			4).	transformer	nos	1.0			211,500.00			211,500.00	1,372,635	
		sub total										248,134.50	8,650,000	10,260,393
	A-10-2. Installation for electric cable and wire	1. electric cable and wire	1).	electric cable										
				CV 3.5sq -2C	m	323.6			43.25			13,995.70	90,832	
				CV 8sq -2C	m	340.3			66.44			22,609.53	146,736	
				CV 14sq -2C	m	40.0			92.29			3,691.60	23,958	
				CV 22sq -2C	m	20.0			124.83			2,496.60	16,203	
				CV 2sq -3C	m	64.5			41.83			2,698.03	17,510	
				CV 5.5sq -3C	m	268.6			71.80			19,285.48	125,163	
				CV 8sq -3C	m	458.6			87.30			40,035.78	259,832	
				CV 14sq -3C	m	820.4			123.72			101,499.88	658,734	
				CV 22sq -3C	m	125.8			168.44			21,189.75	137,521	
				CV 38sq -3C	m	225.2			254.94			57,412.48	372,607	
				CV 8sq -4C	m	20.0			110.31			2,206.20	14,318	
				CV 38sq -4C	m	30.0			327.64			9,829.20	63,792	
				CW 2sq -4C	m	5.0			52.36			261.80	1,699	
				CW 2sq -5C	m	969.3			63.91			61,947.96	402,042	
				CW 2sq -8C	m	919.8			86.62			79,673.07	517,078	
				CW 2sq -10C	m	74.5			106.68			7,947.66	51,580	
				CW 2sq -20C	m	785.2			191.53			150,389.35	976,027	
				CW 2sq -30C	m	4,164.6			253.71			1,056,600.66	6,857,338	
				CWVS 2sq -2C	m	451.5			47.59			21,486.88	139,450	

Project for Construction of the New Dirout Group of regulators (6/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

	Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks
							US\$	LE	YEN	US\$	LE	YEN		
			CVWS 2sq -10C		m	497.6		124.83		62,115.40		403,129		
			CVWS 2sq -15C		m	113.8		174.84		19,896.79		129,130		
			CVWS 2sq -30C		m	910.4		272.75		248,311.60		1,611,542		
			2). electric wire											
			IV 3.5sq		m	819.6		25.93		21,252.22		137,927		
			IV 5.5sq		m	95.1		29.50		2,805.45		18,207		
			IV 8sq		m	1,050.8		36.46		38,312.16		248,646		
			IV 14sq		m	351.0		52.56		18,448.56		119,731		
			IV 22sq		m	30.0		69.60		2,088.00		13,551		
			CPEV 0.9mm -3P		m	1,521.8		48.34		73,563.81		477,429		
			3). conduits											
			FEP 30		m	576.6		72.87		42,016.84		272,689		
			FEP 40		m	990.8		83.30		82,533.64		535,643		
			FEP 50		m	45.8		96.10		4,401.38		28,565		
			FEP 65		m	155.8		114.00		17,761.20		115,270		
			FEP 80		m	762.8		139.03		106,052.08		688,278		
			FEP 100		m	613.2		188.15		115,373.58		748,775		
			FEP 125		m	474.8		232.23		110,262.80		715,606		
			G 28		m	285.2		163.84		46,727.16		303,259		
			G 36		m	458.9		201.06		92,266.43		598,809		
		sum								2,779,446.71		18,038,609		
		2. earth work	excavasion and backfill		m3	32.0		116.67		3,733.44		24,230		
		3. handhole	900×900×900		nos	32.0		18,600.65		595,220.80		3,862,983		
		sub total								3,378,400.95		21,925,822		
	total									3,626,535.45	8,650,000	32,186,215		
A-11. Gate manufactures and works	A-11-1. gate manufacture	1. Gate manufacture	1). double stage roller gate	h=1.100										
			gate leaf	6.0×6.55	L.S	2.0			157,655,000		315,310,000	315,310,000		
			gate guide		L.S	2.0			132,187,000		264,374,000	264,374,000		
			hoisting device	hydraulic	L.S	2.0			410,835,000		821,670,000	821,670,000		
			remote operation system		L.S	2.0			110,893,000		221,786,000	221,786,000		
			2). slide gate	small gate										
			for Badraman	2.0×2.65, including hoist	L.S	2.0		461,044.07		922,088.13		5,984,352		
			for Diroutiah	2.0×2.35, including hoist	L.S	3.0		461,044.07		1,383,132.20		8,976,528		
			for Abo Gabal	2.0×2.95, including hoist	L.S	4.0		499,464.41		1,997,857.62		12,966,096		
			for Sahelyia	2.0×3.55, including hoist	L.S	2.0		527,406.47		1,054,812.94		6,845,736		
			3). stop log											
			for large regulator	Type-A×2、 Type-B×8	L.S	2.0		2,368,089.98		4,736,179.96		30,737,808		
			for asmall regulator	Type-A×2、 Type-B×7	L.S	2.0		1,128,160.86		2,256,321.72		14,643,528		
		sum								12,350,392.57	1,623,140,000	1,703,294,048		
	A-11-2. installation for gate facilities	1. Installation for manufactures	1). installation for gate	for gate, gate guide, hoist	L.S	1.0		5,372,924.63		5,372,924.63		34,870,281		
			2). installation for stop log	for gate guide, crane	L.S	1.0		1,351,345.63		1,351,345.63		8,770,233		
			3). control panel for gate operation											
			remote operation panel		nos	1.0		6,860.00		6,860.00		44,521		
			4). Japanese mechanical engineer for gate		day	1,050.0			22,154		23,261,700	23,261,700		
			5). Japanese electrical engineer for gate		day	1,050.0			24,698		25,932,900	25,932,900		
		sum								6,731,130.26	49,194,600	92,879,635		
	total									19,081,522.83	1,672,334,600	1,796,173,683		
A-12. Expense of the machine and facilities	A-12-1. Expense of the machine and facilities	1. Rent fee for heavy equipment	1-1. rent in Egypt											
			1). rough terrain crane	25t	day	1,410.0		3,194.17		4,503,775.00		29,229,500		
			2). truck with crane	4t/2.9t	day	1,350.0		1,927.50		2,602,125.00		16,887,791		
			3). Truck	11t	day	1,350.0		1,591.67		2,148,750.00		13,945,388		
			4). Truck mixer	4.4m3	day	1,260.0		2,150.00		2,709,000.00		17,581,410		
			5). Truck mixer	4.4m3	day	1,230.0		2,150.00		2,644,500.00		17,162,805		
			6). Truck mixer	4.4m3	day	915.0		2,150.00		1,967,250.00		12,767,453		
			7). Truck mixer	4.4m3	day	450.0		2,150.00		967,500.00		6,279,075		
			8). cement silo	50t	day	1,290.0		1,595.83		2,058,625.00		13,360,476		
			9). Wheel Loader	2.1m3	day	400.0		2,030.83		812,333.33		5,272,043		
			1-2. rent in Japan											
			1). Batching plant	30m3/h	LS	1.0		221,309.66		221,309.66		25,083,237		

Project for Construction of the New Dirout Group of regulators (7/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks		
						US\$	LE	YEN	US\$	LE	YEN				
			2). Vibration hummer (1)	Hydraulic, 232KW	day	1,507.0			21,100			31,797,700	31,797,700		
			3). Vibration hummer (2)	Hydraulic, 232KW	day	367.0			21,100			7,743,700	7,743,700		
			4). Water jet	14.7Mpa 325L/min	day	1,507.0			9,370			14,120,590	14,120,590		
			sum								221,309.66	20,413,858.33	53,661,990	211,231,167	
	2. Operator wage			rent in Egypt											
				1). rough terrain crane	25t	day	1,058.0		435.00			460,230.00		2,986,893	
				2). truck with crane	4t/2.9t	day	1,013.0		435.00			440,655.00		2,859,851	
				3). Truck	11t	day	1,013.0		435.00			440,655.00		2,859,851	
				4). Truck mixer	4.4m3	day	945.0		435.00			411,075.00		2,667,877	
				5). Truck mixer	4.4m3	day	923.0		435.00			401,505.00		2,605,767	
				6). Truck mixer	4.4m3	day	687.0		435.00			298,845.00		1,939,504	
				7). Truck mixer	4.4m3	day	338.0		435.00			147,030.00		954,225	
	sum									2,599,995.00		16,873,968			
	3. Fuel fee			rent in Egypt											
				1). rough terrain crane	25t	Lit	122,696.2		2.00			245,392.40		1,592,597	
2). truck with crane				4t/2.9t	Lit	39,091.6		2.00			78,183.20		507,409		
3). Truck				11t	Lit	61,620.7		2.00			123,241.40		799,837		
4). Truck mixer				4.4m3	Lit	57,900.1		2.00			115,800.20		751,543		
5). Truck mixer				4.4m3	Lit	56,552.2		2.00			113,104.40		734,048		
6). Truck mixer				4.4m3	Lit	42,092.4		2.00			84,184.80		546,359		
7). Truck mixer				4.4m3	Lit	20,709.2		2.00			41,418.40		268,805		
sum									801,324.80		5,200,598				
total									221,309.66	23,815,178.13	53,661,990	233,305,733			
B. Temporary Works									3,192,139.21	88,433,278.12	262,773,263	1,198,502,296			
B-1. Temporary Cofferdam	B-1-1. Double Sheet Pile	1. Double sheet pile	1). driving sheet pile	PU28+1, L ≤ 15m (driving length)	sheet			1,730.41							
				PU28+1, L ≤ 12m (driving length)	sheet	1,462.0		1,466.45			2,143,949.90		13,914,235		
				PU28+1, L ≤ 9m (driving length)	sheet				1,173.16						
				PU28+1, L ≤ 6m (driving length)	sheet	640.0		939.18			601,075.20		3,900,978		
				PU28+1, L ≤ 4m (driving length)	sheet	80.0		763.21			61,056.80		396,259		
				2). Sheet pile press fitting	PU, L ≤ 9m (driving length)	sheet			103.68	3,280					
				3). Mobilization & demobilization	press fitting machine for sheet pile	nos			700.36	19,332					
				4). material fee for sheet pile	PU28+1	t	1,907.6	440.50			840,284.40			95,237,834	
				5). material fee for sheet pile	PU28+1, near rail way	t		881.00							
				6). installation for tie-rod and waling		t	293.9		3,311.13			972,988.79		6,314,697	
				7). material fee for tie-rod (NHT690)	φ75 L=8.9m 2pcs/rod	nos	210.0			151,065			31,723,650	31,723,650	
					φ75 L=10.0m 2pcs/rod	nos	29.0			167,850			4,867,650	4,867,650	
					φ32 L=6.8m 2pcs/rod	nos	40.0			25,470			1,018,800	1,018,800	
					φ32 L=8.0m 2pcs/rod	nos	31.0			29,385			910,935	910,935	
					φ28 L=4.5m 2pcs/rod	nos				16,020					
		φ28 L=5.5m 2pcs/rod	nos				18,495								
		φ28 L=7.6m 2pcs/rod	nos				24,345								
		φ28 L=8.5m 2pcs/rod	nos				26,820								
		8). material fee for waling	H300未滿	t	106.6		7,846.00			836,383.60		5,428,130			
		9). sheet pile welding	on site	nos	1,662.0		1,944.85			3,232,340.70		20,977,891			
		10). removing sheet pile	L ≤ 15m (removing length)	nos			658.61								
			L ≤ 12m (removing length)	nos	1,462.0		572.16			836,497.92		5,428,872			
			L ≤ 9m (removing length)	nos			486.33								
			L ≤ 6m (removing length)	nos	640.0		428.48			274,227.20		1,779,735			
			L ≤ 4m (removing length)	nos	80.0		371.90			29,752.00		193,090			
		11). driving bearing pile	H150, L ≤ 4m (driving length)	nos			615.91								
			H250, L ≤ 4m (driving length)	nos			673.91								
		12). removing bearing pile	L ≤ 4m (removing length)	nos			371.90								
		13). material fee for bearing pile		t			7,846.00								
		14). Japanese sheet pile operator A		day	2,190.0			27,030			59,195,700	59,195,700			
		15). Japanese sheet pile operator B		day	480.0			27,030			12,974,400	12,974,400			
	sub total									840,284.40	8,988,272.11	110,691,135	264,262,855		
	B-1-2. Earth work	1. earth work	1). backfill	inside coffer dam	m3	29,986.8		37.90			1,136,499.72		7,375,883		
			2). backfill material fee	sand	m3	40,458.0		67.10			2,714,731.80		17,618,609		
			3). transportation fee for buying material												

Project for Construction of the New Dirout Group of regulators (8/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

	Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks	
							US\$	LE	YEN	US\$	LE	YEN			
			excavation and loading	0.8m3 back hoe loose soil	m3	40,458.0			19.22			777,602.76		5,046,642	
			transportation by damp truck	Distance 20km	m3	40,458.0			135.51			5,482,463.58		35,581,189	
		sub total										10,111,297.86		65,622,323	
		total										840,284.40	19,099,569.97	110,691,135	329,885,178
B-2. Single Sheet Pile	B-2-1. Single Sheet Pile	1. Single Sheet Pile	1). driving sheet pile	PU28+1, L ≤ 15m (driving length)	sheet	200.0			1,730.41			346,082.00		2,246,072	
				PU28+1, L ≤ 12m (driving length)	sheet				1,466.45						
				PU28+1, L ≤ 9m (driving length)	sheet				1,173.16						
				PU28+1, L ≤ 6m (driving length)	sheet	232.0			939.18			217,889.76		1,414,105	
				PU28+1, L ≤ 4m (driving length)	sheet	467.0			763.21			356,419.07		2,313,160	
			2). Sheet pile press fitting	PU, L ≤ 9m (driving length)	sheet	195.0			103.68	3,280		20,217.60	639,600	770,812	
			3). Mobilization & demobilization	press fitting machine for sheet pile	nos	1.0			700.36	19,332		700.36	19,332	23,877	
			4). material fee for sheet pile	PU28+1	t	663.3	440.50				292,188.54			33,116,649	
			5). material fee for sheet pile	PU28+1, near rail way	t	165.7	881.00				145,981.70			16,545,566	
			6). installation for tie-rod and waling		t	47.7			3,311.13			157,940.90		1,025,036	
			7). material fee for tie-rod (NHT690)	φ75 L=8.9m 2pcs/rod	nos					151,065					
				φ75 L=10.0m 2pcs/rod	nos					167,850					
				φ32 L=6.8m 2pcs/rod	nos					25,470					
				φ32 L=8.0m 2pcs/rod	nos					29,385					
				φ28 L=4.5m 2pcs/rod	nos	76.0							1,217,520	1,217,520	
				φ28 L=5.5m 2pcs/rod	nos	76.0							1,405,620	1,405,620	
				φ28 L=7.6m 2pcs/rod	nos	51.0							1,241,595	1,241,595	
				φ28 L=8.5m 2pcs/rod	nos	68.0							1,823,760	1,823,760	
			8). material fee for waling		t	26.7		7,846.00				209,488.20		1,359,578	
			9). sheet pile welding	on site	nos	200.0			1,944.85			388,970.00		2,524,415	
			10). removing sheet pile	L ≤ 15m (removing length)	nos	200.0			658.61			131,722.00		854,876	
				L ≤ 12m (removing length)	nos				572.16						
				L ≤ 9m (removing length)	nos				486.33						
				L ≤ 6m (removing length)	nos	232.0			428.48			99,407.36		645,154	
				L ≤ 4m (removing length)	nos	467.0			371.90			173,677.30		1,127,166	
			11). driving bearing pile	H150, L ≤ 4m (driving length)	nos	227.0			615.91			139,811.57		907,377	
				H250, L ≤ 4m (driving length)	nos	46.0			673.91			30,999.86		201,189	
			12). removing bearing pile	L ≤ 4m (removing length)	nos	273.0			371.90			101,528.70		658,921	
			13). material fee for bearing pile		t	53.0		7,846.00				415,445.70		2,696,243	
		total										438,170.24	2,790,300.38	6,347,427	74,118,691
B-3. Temporary bridge	B-3-1. Temporary bridge	1. pile driving	1). driving H-beam	H400, L ≤ 12m (driving length)	piece	139.0			2,083.01			289,538.39		1,879,104	
				H400, L ≤ 9m (driving length)	piece				1,641.77						
				H350, L ≤ 12m (driving length)	piece	45.0			1,730.41			77,868.45		505,366	
				H350, L ≤ 9m (driving length)	piece	148.0			1,407.14			208,256.72		1,351,586	
				H300, L ≤ 6m (driving length)	piece	55.0			880.52			48,428.60		314,302	
			2). removing H-beam	L ≤ 12m (removing length)	piece	184.0			572.16			105,277.44		683,251	
				L ≤ 9m (removing length)	piece	148.0			486.33			71,976.84		467,130	
				L ≤ 6m (removing length)	piece	55.0			428.48			23,566.40		152,946	
			3). material fee for H-beam	exclude re-used material	t	634.4				33,300			21,123,855	21,123,855	
		sum										824,912.84	21,123,855	26,477,539	
		2. substructure	1). installation for substructure		t	46.7			5,381.06			251,295.50		1,630,908	
			2). removal for substructure		t	46.7			2,884.85			134,722.49		874,349	
			3). material fee for substructure		t	25.6			7,846.00			200,857.60		1,303,566	
		sum										586,875.59		3,808,823	
		3. deck plate	1). installation for deck plate		m2	3,700.0			201.95			747,215.00		4,849,425	
			2). removal for deck plate		m2	3,700.0			103.28			382,136.00		2,480,063	
			3). material fee for deck plate	exclude re-used material	m2	1,916.5				11,700			22,423,160	22,423,160	
		sum										1,129,351.00	22,423,160	29,752,648	
		4. superstructure	1). installation for superstructure		t	468.1			2,736.49			1,280,950.96		8,313,372	
			2). removal for superstructure		t	468.1			1,511.24			707,411.44		4,591,100	
			3). material fee for superstructure	exclude re-used material	t	264.3				33,300			8,801,190	8,801,190	
		sum										1,988,362.40	8,801,190	21,705,662	
		5. guard pipe	1). installation for bridge railing		m	1,164.0			22.56			26,259.84		170,426	
			2). removal for bridge railing		m	1,164.0			12.88			14,992.32		97,300	
			3). material fee for bridge railing	@1.8m	nos	374.0				2,876			1,075,437	1,075,437	

Project for Construction of the New Dirout Group of regulators (9/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

	Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks
							US\$	LE	YEN	US\$	LE	YEN		
		sum									41,252.16	1,075,437	1,343,164	
		6. stage end		1). installation/removal for stage end	steel plate	m2	317.0		95.64		30,319.78		196,775	
				2). material fee for stage end	steel plate	nos	59.1		6,357.00		375,712.96		2,438,377	
		sum									406,032.74		2,635,152	
	total										4,976,786.73	53,423,642	85,722,988	
B-4. Dewatering	B-4-1. Dewatering	1. water pump		1). dewatering by water pump	φ50mm	day·nos	780.0		1,334.29		1,040,746.20		6,754,443	
				2). installation and removal for water pump		nos	8.0		1,238.60		9,908.80		64,308	
		sum									1,050,655.00		6,818,751	
		2. Wellpoint		1). installation/removal for wellpoint	121pcs×2 (Bahr-Yusef, Ibrahimia)	L.S	2.0		221,667.00		443,334.00		2,877,238	
				2). daily operation and control		day	803.0		11,000.00		8,833,000.00		57,326,170	
				3). fuel		Lit	96,360.0		2.00		192,720.00		1,250,753	
		sum									9,469,054.00		61,454,160	
	total										10,519,709.00		68,272,911	
B-5. Temporary road & preparation	B-5-1. temporary road	1. temporary road		1). embankment		m3	21,331.2		37.90		808,452.48		5,246,857	
				2). material fee for temporary road	sand	m3	25,270.0		67.10		1,695,617.00		11,004,554	
				3). transportation fee for buying material										
				excavation and loading	0.8m3 back hoe loose soil	m3	25,270.0		19.22		485,689.40		3,152,124	
				transportation by damp truck	Distance 20km	m3	25,270.0		135.51		3,424,337.70		22,223,952	
				4). transportation fee for reused material										
				excavation and loading	0.8m3 back hoe loose soil	m3	2,016.0		19.22		38,747.52		251,471	
				transportation by damp truck	Distance 0.3km	m3	2,016.0		18.47		37,235.52		241,659	
				5). existing structure demolition	plain concrete	m3	3,089.3		224.59		693,825.88		4,502,930	
				6). broken concrete disposal	Distance 20km	m3	3,089.3		194.01		599,355.09		3,889,815	
	total										7,783,260.59		50,513,361	
B-6. diversion works	B-6-1. diversion works	1. diversion works		1). river side slope excavation	0.8m3 back hoe	m3	6,281.0		19.82		124,489.42		807,936	
				2). river bed excavation	0.4m3 long arm back hoe	m3	5,089.6		46.86		238,498.65		1,547,856	
				3). excavated soil disposal	Distance 20km	m3	11,370.6		159.33		1,811,677.69		11,757,788	
				4). stone riprap	for river bed	m3	2,093.0		766.83		1,604,975.19		10,416,289	
				5). Barge	Bahr Yusef:60×10=600m2	day	100.0		50,400.00		5,040,000.00		32,709,600	
					Ibrahimia:35×10=350m2	day	100.0		29,400.00		2,940,000.00		19,080,600	
	total										11,759,640.95		76,320,070	
B-7. Other temporary works	B-7-1. Temporary yard preparation	1. Temporary yard preparation		1). spreading gravel		m2	21,000.0		132.78		2,788,380.00		18,096,586	
				2). removal for gravel		m3	4,200.0		28.32		118,944.00		771,947	
				3). excavated soil disposal	distance 30km	m3	4,200.0		159.33		669,186.00		4,343,017	
				4). temporary fence	H=2.0m	m	1,860.0		1,083.00		2,014,380.00		13,073,326	
	sub total										5,590,890.00		36,284,876	
	B-7-2. Foudation improvement work	1. Foudation improvement work		1). embankment		m3	2,676.1		45.37		121,414.65		787,981	
				2). material fee for embankment	sand	m3	3,380.0		67.10		226,798.00		1,471,919	
				3). transportation fee for buying material										
				excavation and loading	0.8m3 back hoe loose soil	m3	3,380.0		19.22		64,963.60		421,614	
				transportation by damp truck	Distance 20km	m3	3,380.0		135.51		458,023.80		2,972,574	
				4). soil improvement	cement mixing	m3	3,189.0		123.60		394,160.40		2,558,101	
				5). installation for steel plate		m2	882.0		3.11		2,743.02		17,802	
				6). removal for steel plate		m2	882.0		2.46		2,169.72		14,081	
				7). material fee for steel plate	1.5m × 3.0m, t=22mm	nos	196.0		3,178.50		622,986.00		4,043,179	
	sub total										1,893,259.19		12,287,252	
	B-7-3. Batching plant facility	1. Batching plant facility		1). assembling and removal for batching plant		L.S	1.0		109,080.79		109,080.79		707,934	
				2). assembling and removal for cement silo		L.S	1.0		57,566.61		57,566.61		373,607	
				3). installation and removal for concrete aggregate yard		L.S	1.0		81,493.48		81,493.48		528,893	
	sub total										248,140.88		1,610,434	
	B-7-4. utility costs	1. Receiving power facilities		1). receiving power equipment		L.S	1.0		8,550.00		8,550.00		55,490	
				2). installation		L.S	1.0		4,918.48		4,918.48		31,921	
				3). foundation concrete	18N/mm2	m3								
				4). foundation gravel		m2	15.0		99.31		1,485.67		9,642	
				5). lean concrete		m3	1.3		1,257.46		1,690.02		10,968	
				6). formwork		m2	4.2		400.74		1,683.10		10,923	
				7). placing concrete	18N/mm2	m3	3.6		1,109.76		3,995.13		25,928	
				8). curing		m3	3.6		12.92		46.51		302	
				9). other materials	0.2% of facilities cost	%	0.2		8,550.00		1,710.00		11,098	

Project for Construction of the New Dirout Group of regulators (10/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks	
						US\$	LE	YEN	US\$	LE	YEN			
	sum										24,078.91		156,272	
	2. electricity facilities													
		1). electric cable	600V 22mm2-3C	m	2,100.0			179.00			375,900.00		2,439,591	
		2). distribution board	75A-150A	nos	18.0			6,990.00			125,820.00		816,572	
		3). switching board		nos	1.0			5,500.00			5,500.00		35,695	
		4). installation for cable		day·nos	12.0			341.00			4,092.00		26,557	
		5). excavation		m3	585.0			154.56			90,417.60		586,810	
		6). backfill		m3	585.0			88.49			51,766.65		335,966	
	sum										653,496.25		4,241,191	
	3. water facilities													
		1). well	30m x 1piece	m	30.0									
		2). pump for well		nos	2.0			15,000.00			30,000.00		194,700	
		3). distribution pipe	φ50mm	m	226.0			316.00			71,416.00		463,490	
			φ25mm	m	46.5			136.00			6,324.00		41,043	
		4). valve	φ50mm	nos	5.0			307.00			1,535.00		9,962	
			φ25mm	nos	5.0			307.00			1,535.00		9,962	
		5). bibb cock		nos	7.0			1,491.00			10,437.00		67,736	
	sum										121,247.00		786,893	
	4. electricity connection fee			L.S	1.0			50,000.00			50,000.00		324,500	
	5. electric fee			Kwh	1,596,072.5			2.00			3,192,145.04		20,717,021	
	sub total										4,040,967.20		26,225,877	
	B-7-5. site expense													
	1. transportation fee for heavy construction equipment													
		1). Track crane	80t x 10 nos	t	800.0			550.00			440,000.00		2,855,600	
		2). Track crane	25t x 2 nos	t	50.0			550.00			27,500.00		178,475	
		2). Crawler crane	50t x 16 nos	t	800.0			550.00			440,000.00		2,855,600	
	sum										907,500.00		5,889,675	
	2. vehicle for site management													
		1). vehicle A	sedan	nos	180.0			15,750.00			2,835,000.00		18,399,150	
		2). vehicle B	pick-up	nos	142.0			18,749.00			2,662,358.00		17,278,703	
	sum										5,497,358.00		35,677,853	
	3. oversea travel cost													
		1). project manager		time	10.0				248,000			2,480,000	2,480,000	
		2). chief civil engineer		time	10.0				248,000			2,480,000	2,480,000	
		3). civil engineer 1		time	10.0				248,000			2,480,000	2,480,000	
		4). civil engineer 2		time	10.0				248,000			2,480,000	2,480,000	
		5). architecture		time	3.0				248,000			744,000	744,000	
		6). mechanical engineer		time	8.0				248,000			1,984,000	1,984,000	
		7). electrical engineer		time	8.0				248,000			1,984,000	1,984,000	
		8). administrator		time	10.0				248,000			2,480,000	2,480,000	
	sum											17,112,000	17,112,000	
	sub total										6,404,858.00	17,112,000	58,679,528	
	total										18,178,115.27	17,112,000	135,087,968	
	B-8. Transportation / Shipment													
	for civil work													
	B-8-1. packing													
		1). construction material for civil work	728.3 F/T	L.S	1.0						5,665,521		5,665,521	
		2). steel material for civil work	58.3 F/T	L.S	1.0						563,587		563,587	
	sum											6,229,108	6,229,108	
	B-8-2. loading													
		1). custom fee		L.S	2.0						5,900		11,800	
		2). loading	construction material for civil work	F/T	728.3						5,500		4,005,897	4,005,897
			steel material for civil work	F/T	58.3						5,500		320,430	320,430
		3). documentation		L.S	2.0						20,000		40,000	40,000
	sum											4,378,127	4,378,127	
	B-8-3. ocean transportation													
		1). construction material for civil work		F/T	728.3		180.00				131,102.10		14,859,112	
		2). steel material for civil work		F/T	58.3		180.00				10,486.83		1,188,577	
	sum										141,588.93		16,047,689	
	B-8-4. port charge													
		1). port charge		F/T	786.6			148.00			116,417.56		755,550	
		2). trust money for entry		F/T	786.6			60.00			47,196.31		306,304	
	sum											163,613.87	1,061,854	
	B-8-5. inland transportation													
		1). inland transportation	for permanent work	F/T	786.6			667.00			524,665.65		3,405,080	
			work)	F/T	944.6			667.00			630,061.93		4,089,102	
	sum											1,154,727.58	7,494,182	
	B-8-6. insurance													
		1). insurance	I = CIP × 1.1 × r	L.S	1.0		563.00	5,241.39	205,577		563.00	5,241.38	205,577	303,404
	sum										563.00	5,241.38	205,577	303,404
	sub total										142,151.93	1,323,582.83	10,812,812	35,514,364
	for temporary work													
	B-8-7. packing													
		(from Japan to site)												
		1). material for temporary work	2,130.8 F/T	L.S	1.0						10,732,429		10,732,429	

Project for Construction of the New Dirout Group of regulators (11/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks	
						US\$	LE	YEN	US\$	LE	YEN			
			2). steel material for temporary work		L.S	1.0			221,659			221,658	221,658	
			3). construction equipments		L.S	1.0			2,080,632			2,080,632	2,080,632	
			(from site to Japan)											
			1). material for temporary work		L.S	1.0			3,219,729			3,219,728	3,219,728	
			2). steel material for temporary work		L.S	1.0			66,498			66,497	66,497	
			3). construction equipment		L.S	1.0			624,190			624,189	624,189	
			sum									16,945,133	16,945,133	
	B-8-8. loading		(from Japan to site)											
			1). custom fee		L.S	3.0			5,900			17,700	17,700	
			2). loading		F/T	2,130.8			5,500			11,719,516	11,719,516	
					F/T	1,479.0			5,500			8,134,373	8,134,373	
					F/T	206.9			5,500			1,138,129	1,138,129	
			3). documentation		L.S	3.0			20,000			60,000	60,000	
			(from site to Japan)											
			1). custom fee		L.S	3.0			5,900			17,700	17,700	
			2). loading		F/T	2,056.8		254.24				522,910.48	3,393,689	
					F/T	1,428.6		254.24				363,203.38	2,357,190	
					F/T	186.9		254.24				47,525.22	308,439	
			3). documentation		L.S	3.0			20,000			60,000	60,000	
			sum									933,639.08	21,147,418	27,206,736
	B-8-9. ocean transpotation		(from Japan to site)											
			1). material for temporary work		F/T	2,130.8	180.00					383,547.82		43,471,310
			2). steel material for temporary work		F/T	1,479.0	180.00					266,215.86		30,172,906
			3). construction equipment		F/T	206.9	180.00					37,247.86		4,221,672
			(from site to Japan)											
			1). material for temporary work		F/T	2,056.8	180.00					370,220.62		41,960,805
			2). steel material for temporary work		F/T	1,428.6	180.00					257,148.00		29,145,154
			3). construction equipment		F/T	186.9	180.00					33,647.86		3,813,648
			(from site to the third country)											
			1). material for steel sheet pile		F/T	2,736.6	90.00					246,292.26		27,914,765
			sum									1,594,320.28		180,700,261
	B-8-10. port charge		(from Japan to site)											
			1). port charge		F/T	3,816.7		148.00				564,876.16		3,666,046
			2). trust money for entry		F/T	3,816.7		60.00				229,003.84		1,486,235
			(from site to Japan)											
			1). port charge		F/T	3,672.3		148.00				543,502.44		3,527,331
			2). trust money for entry		F/T	3,672.3		60.00				220,338.82		1,429,999
			sum									1,557,721.26		10,109,611
	B-8-11. inland transpotation		(from Alexandria to site)											
			1). inland transpotation		F/T	3,816.7		667.00				2,545,759.45		16,521,979
					F/T	2,736.6		667.00				1,825,299.32		11,846,193
			(from site to Alexandria)											
			2). inland transpotation		F/T	3,672.3		667.00				2,449,433.31		15,896,822
					F/T	2,736.6		667.00				1,825,299.32		11,846,193
			sum									8,645,791.40		56,111,186
	B-8-12. insurance		1). insurance (from Japan to Site)		L.S	1.0	2,731.00	13,277.55	1,979,481	2,731.00	13,277.55	1,979,481	2,375,184	
			2). insurance (from Site to Japan)		L.S	1.0	2,628.00	16,487.07	785,113	2,628.00	16,487.06	785,113	1,189,972	
			sum									5,359.00	29,764.61	2,764,594
			sub total									1,599,679.28	11,166,916.35	294,638,082
	for gate facilities		B-8-13. packing											
			1). gate facilities		L.S	1.0						9,448,061	9,448,061	9,448,061
			sum									9,448,061	9,448,061	
			B-8-14. loading											
			1). custom fee		L.S	1.0						5,900	5,900	5,900
			2). loading fee		F/T	951.0						5,230,266	5,230,266	
			3). document fee		L.S	1.0						20,000	20,000	
			sum									5,256,166	5,256,166	
			B-8-15. ocean transpotation											
			1). gate facilities		F/T	951.0	180.00					171,172.36		19,400,675
			sum									171,172.36		19,400,675
			B-8-16. port charge											
			1). port charge		F/T	951.0		148.00				140,741.72		913,414
			2). trust money for entry		F/T	951.0		60.00				57,057.45		370,303

Project for Construction of the New Dirout Group of regulators (12/12)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE

5	Exchange Rate	1USD= 113.34 (YEN)	1EUR= 121.26 (YEN)	1LE = 6.49 (YEN)
---	---------------	--------------------	--------------------	------------------

	Work	Item	Grade	Detail	Unit	Quantity	Unit Price			Amount			Exchange to YEN	Remarks
							US\$	LE	YEN	US\$	LE	YEN		
		sum									197,799.17		1,283.717	
		B-8-17. inland transportation		1). inland transportation	F/T	951.0		667.00			634,288.72		4,116.534	
		sum									634,288.72		4,116.534	
		B-8-18. insurance		1). insurance	L.S	1.0	681.00	3,308.17	8,824.875	681.00	3,308.16	8,824.875	8,923.529	
		sum		I = CIP × 1.1 × r						681.00	3,308.16	8,824.875	8,923.529	
		sub total								171,853.36	835,396.05	23,529,102	48,428.682	
	total									1,913,684.57	13,325,895.23	75,199,059	378,581,128	
C. Building Works														
	Building works	C-1. Control house			L.S	1.0		1,977,700.00			1,977,700.00		12,835.273	
		C-2. Local control house		Bahr Yusef	L.S	1.0		301,900.00			301,900.00		1,959.331	
		C-3. Local control house		Ibrahimia	L.S	1.0		301,900.00			301,900.00		1,959.331	
		C-4. Stop log room			L.S	1.0		818,200.00			818,200.00		5,310.118	
	total										3,399,700.00		22,064.053	
D. Integrated Water Management System														
	Integrated Water Management System	D-1. IWMS manufactures	1. IWMS manufactures	1). Gauging station	Type-A & B	L.S.	1.0		14,102,971.29		14,102,971.29		91,528.284	
				2). Central monitoring room	in Dirout	L.S.	1.0		1,387,148.88		1,387,148.87		9,002.596	
				3). Monitoring room	in Minia	L.S.	1.0		186,425.96		186,425.96		1,209.904	
		sub total									15,676,546.12		101,740.784	
		D-2. Installation for IWMS	1. Installation for IWMS	1). installation for Gauging station	Type-A & B	L.S.	1.0		15,816,762.91		15,816,762.90		102,650.791	
				2). installation for Monitoring room	in Dirout and Minia	L.S.	1.0		135,134.81		135,134.81		877.025	
		sub total									15,951,897.71		103,527.816	
	total										31,628,443.83		205,268.600	
E. Dispute Board														
	Dispute Board	E-1. Dispute Board	1. regular Site Visit	1). Monthly Retainer Fee	US\$3,000/day	month	45.0	3,000.00			135,000.00		15,300.900	
				2). Monthly Retainer Fee during DNP	US\$2,000/day	month	12.0	2,000.00			24,000.00		2,720.160	
				3). Daily Fee	2day for Site Visit × 10nos	day	20.0	3,000.00			60,000.00		6,800.400	
					3day for travel × 10nos	day	30.0	3,000.00			90,000.00		10,200.600	
				4). Expenses	Air ticket, etc.	time	10.0	5,000.00			50,000.00		5,667.000	
		sum									359,000.00		40,689.060	
		2. supposed referrals	1). Additional Daily Fee			time	2.0	3,000.00			6,000.00		680.040	
			2). Reviewing Submission and Drafting Decision	(3+4 days)×2		time	14.0	3,000.00			42,000.00		4,760.280	
		sum									48,000.00		5,440.320	
	total										407,000.00		46,129.380	
	I-2 Indirect Cost					L.S	1.00				1,485,994.40	93,278,928.15	186,287,138	960,089,987

E-8-3. Detail of the Project Cost Estimation

A-9-1 Road works (1/2)

No.	Item		Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
1	Asphalt pavement	roadway									
1)	enbankment		10,225	m3		37.90		387,539.62			Breakdown No.207
	material fee for temporary road	sand	12,916	m3		67.10		866,676.59			C-030
	transportation fee for buying material										
	excavation and loading	0.8m3 back hoe loose soil	12,916	m3		19.22		248,249.24			Breakdown No.205
	transportation by damp truck	Distance 20km	12,916	m3		135.51		1,750,273.40			Breakdown No.218
2)	wearing course	t=50mm	4,380	m2		143.00		626,287.09			DC-004
3)	binder course	t=60mm	4,380	m2		143.00		626,287.09			DC-004
4)	base course	t=200mm	4,380	m2		132.78		581,527.27			Breakdown No.502
5)	sub base course	t=200mm	4,380	m2		132.78		581,527.27			Breakdown No.502
6)	tack coat		4,380	m2		16.00		70,074.08			DC-003
7)	prime coat		4,380	m2		19.00		83,212.97			DC-002
2	Asphalt pavement	pathway									
1)	wearing course	t=50mm	623.7	m2		143.00		89,191.96			DC-004
2)	base course	t=200mm	623.7	m2		132.78		82,817.54			Breakdown No.502
3)	prime coat		623.7	m2		19.00		11,850.68			DC-002
3	curb concrete										
1)	form for lean concrete		127.3	m2		209.60		26,689.20			Breakdown No.308
2)	placing lean concrete	18N/mm2 by crane	20.7	m3		1,479.36		30,585.21			Breakdown No.333
3)	curing	plain concrete	20.7	m3		12.92		267.11			Breakdown No.341
3)	formwork	for small structure	964.9	m2		355.10		342,646.12			Breakdown No.307
4)	placing plain concrete	18N/mm2 by man power	109.5	m3		1,109.76		121,480.35			Breakdown No.339
5)	curing	small structure	109.5	m3		30.22		3,308.04			Breakdown No.342
6)	gravel for under concrete	t=100mm	41.3	m2		99.31		4,106.39			Breakdown No.224
4	guard pipe	H=1.1m	629.81	m		1,212.12		763,405.29			Breakdown No.514
5	slope protection										
1)	stone masonry with mortar	t=35cm	1765.3	m2		841.71		1,485,828.57			Breakdown No.401
2)	placing backfill concrete	18N/mm2 by crane	214.5	m3		1,479.36		317,374.66			Breakdown No.333
3)	curing	plain concrete	214.5	m3		12.92		2,771.79			Breakdown No.341

A-9-4 Accessory works around regulator (1/2)

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks
				US\$	LE	YEN	US\$	LE	YEN	
1	accessory work for gate									
1)	formwork for post-placing concrete	reinforced concrete	1,248.8	m2		400.74		500,448.11		Breakdown No.304
2)	post-placing concrete	25N/mm2(src, night time)	340.2	m3		1,446.03		491,953.86		Breakdown No.332-1
3)	post-placing concrete	25N/mm2(opc)	7.5	m3		1,356.29		10,185.73		Breakdown No.330
4)	curing	for post-placing concrete	347.7	m3		7.83		2,722.64		Breakdown No.340
5)	joint bar	D22	2.92	t		11,442.00		33,457.14		C-005
6)	installation for joint bar	D22	7,900	nos		83.45		659,255.00		Breakdown No.350
2	hydraulic pipe pit works									
1)	form for lean concrete		9.1	m2		209.60		1,909.45		Breakdown No.308
2)	placing lean concrete	18N/mm2 by crane	10.5	m3		1,479.36		15,562.86		Breakdown No.333
3)	curing	plain concrete	10.5	m3		12.92		135.91		Breakdown No.341
4)	formwork	reinforced concrete	374.7	m2		400.74		150,169.30		Breakdown No.304
5)	placing concrete	25N/mm2(opc)	85.8	m3		1,356.29		116,383.24		Breakdown No.330
6)	curing	reinforced concrete	85.8	m3		7.83		671.89		Breakdown No.340
7)	bending, cutting and placing for re-bar	D22	8.52	t		17,805.74		151,687.09		Breakdown No.302
8)	scaffolding	not less than 4m	160.1	m2		161.52		25,865.81		Breakdown No.309
9)	pipe support falsework	not greater than 4t/m2	92.0	m3		144.07		13,250.11		Breakdown No.314
10)	water stop	w=300mm	16.8	m		37.54	2,214	630.67	37,195	Breakdown No.343
11)	joint filler	expansion joint	5.1	m2		45.20		231.87		Breakdown No.351
12)	joint filler	construction joint	0.6	m2		403.70		250.29		Breakdown No.345
13)	checker plate	t=3.2mm	0.98	m2		349.41		342.41		
		t=4.5mm	18.79	m2		476.12		8,946.24		
14)	Anchor bar	D16	0.005	t		11,442.00		57.11		C-002
15)	installation for hydraulic pipe	SUS 32A	4,004.0	m		75.50		302,302.00		Breakdown No.245
3	steel stairs									
1)	steel stairs		2.0	L.S		129,944.00		259,888.00		Breakdown No.518
2)	foundation for support		2.0	L.S		14,774.67		29,549.34		Breakdown No.352
4	installation for grating	IB, 44×5×3	227.84	m2		232.34	18,090	52,936.34	4,121,625	Breakdown No.515

A-10-2 Installation for electric cable and wire (1/2)

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks
				US\$	LE	YEN	US\$	LE	YEN	
1	electric cable and wire									
1)	electric cable									
	CV 3.5sq -2C	323.6	m		43.25			13,995.70		Breakdown No.1014
	CV 8sq -2C	340.3	m		66.44			22,609.53		Breakdown No.1015
	CV 14sq -2C	40.0	m		92.29			3,691.60		Breakdown No.1016
	CV 22sq -2C	20.0	m		124.83			2,496.60		Breakdown No.1017
	CV 2sq -3C	64.5	m		41.83			2,698.03		Breakdown No.1018
	CV 5.5sq -3C	268.6	m		71.80			19,285.48		Breakdown No.1019
	CV 8sq -3C	458.6	m		87.30			40,035.78		Breakdown No.1020
	CV 14sq -3C	820.4	m		123.72			101,499.88		Breakdown No.1021
	CV 22sq -3C	125.8	m		168.44			21,189.75		Breakdown No.1022
	CV 38sq -3C	225.2	m		254.94			57,412.48		Breakdown No.1023
	CV 8sq -4C	20.0	m		110.31			2,206.20		Breakdown No.1024
	CV 38sq -4C	30.0	m		327.64			9,829.20		Breakdown No.1025
	CVV 2sq -4C	5.0	m		52.36			261.80		Breakdown No.1026
	CVV 2sq -5C	969.3	m		63.91			61,947.96		Breakdown No.1027
	CVV 2sq -8C	919.8	m		86.62			79,673.07		Breakdown No.1028
	CVV 2sq -10C	74.5	m		106.68			7,947.66		Breakdown No.1029
	CVV 2sq -20C	785.2	m		191.53			150,389.35		Breakdown No.1030
	CVV 2sq -30C	4164.6	m		253.71			1,056,600.66		Breakdown No.1031
	CVVS 2sq -2C	451.5	m		47.59			21,486.88		Breakdown No.1032
	CVVS 2sq -10C	497.6	m		124.83			62,115.40		Breakdown No.1033
	CVVS 2sq -15C	113.8	m		174.84			19,896.79		Breakdown No.1034
	CVVS 2sq -30C	910.4	m		272.75			248,311.60		Breakdown No.1035
2)	electric wire									
	IV 3.5sq	819.6	m		25.93			21,252.22		Breakdown No.1037
	IV 5.5sq	95.1	m		29.50			2,805.45		Breakdown No.1038
	IV 8sq	1050.8	m		36.46			38,312.16		Breakdown No.1039
	IV 14sq	351.0	m		52.56			18,448.56		Breakdown No.1040
	IV 22sq	30.0	m		69.60			2,088.00		Breakdown No.1041
	CPEV 0.9mm -3P	1521.8	m		48.34			73,563.81		Breakdown No.1036

B-1-1 Double sheet pile

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks	
				US\$	LE	YEN	US\$	LE	YEN		
1	Double sheet pile										
1)	driving sheet pile	PU28+1, L ≤ 15m (driving length)		sheet		1,730.41				Breakdown No.649	
		PU28+1, L ≤ 12m (driving length)	1,462	sheet		1,466.45		2,143,949.90		Breakdown No.650	
		PU28+1, L ≤ 9m (driving length)		sheet		1,173.16				Breakdown No.651	
		PU28+1, L ≤ 6m (driving length)	640	sheet		939.18		601,075.20		Breakdown No.652	
		PU28+1, L ≤ 4m (driving length)	80	sheet		763.21		61,056.80		Breakdown No.653	
2)	Sheet pile press fitting	PU, L ≤ 9m (driving length)		sheet		103.68	3,280			Breakdown No.664	
3)	Mobilization & demobilization	press fitting machine for sheet pile		nos		700.36	19,332			Breakdown No.665	
4)	material fee for sheet pile	PU28+1	1,907.6	t	440.50			840,284.40		×0.50	
5)	material fee for sheet pile	PU28+1, near rail way		t	881.00						
6)	installation for tie-rod and waling		293.9	t		3,311.13		972,988.79		Breakdown No.616	
7)	material fee for tie-rod (NHT690)	φ75 L=8.9m 2pcs/rod	210	nos			151,065		31,723,650	JS-056	
		φ75 L=10.0m 2pcs/rod	29	nos			167,850		4,867,650	JS-057	
		φ32 L=6.8m 2pcs/rod	40	nos			25,470		1,018,800	JS-058	
		φ32 L=8.0m 2pcs/rod	31	nos			29,385		910,935	JS-059	
		φ28 L=4.5m 2pcs/rod		nos			16,020			JS-060	
		φ28 L=5.5m 2pcs/rod		nos			18,495			JS-061	
		φ28 L=7.6m 2pcs/rod		nos			24,345			JS-062	
		φ28 L=8.5m 2pcs/rod		nos			26,820			JS-063	
		φ28 L=8.8m 2pcs/rod	46	nos			27,450		1,262,700	JS-064	
		φ28 L=10.0m 2pcs/rod	15	nos			30,825		462,375	JS-065	
8)	material fee for waling	H300未滿	106.6	t	7,846.00			836,383.60		C-006×0.50	
9)	sheet pile welding	on site	1,662	nos		1,944.85		3,232,340.70		Breakdown No.643	
10)	removing sheet pile	L ≤ 15m (removing length)		nos		658.61				Breakdown No.611	
		L ≤ 12m (removing length)	1,462	nos		572.16		836,497.92		Breakdown No.612	
		L ≤ 9m (removing length)		nos		486.33				Breakdown No.613	
		L ≤ 6m (removing length)	640	nos		428.48		274,227.20		Breakdown No.614	
		L ≤ 4m (removing length)	80	nos		371.90		29,752.00		Breakdown No.615	
11)	driving bearing pile	H150, L ≤ 4m (driving length)		nos		615.91				Breakdown No.610	
		H250, L ≤ 4m (driving length)		nos		673.91				Breakdown No.609	
12)	removing bearing pile	L ≤ 4m (removing length)		nos		371.90				Breakdown No.615	
13)	material fee for bearing pile			t		7,846.00				C-006×0.50	
14)	Japanese sheet pile operator A		2,190.0	day			27,030		59,195,700	SV-01 ×1.06	
15)	Japanese sheet pile operator B		480.0	fay			27,030		12,974,400	SV-02 ×1.06	
	Total							840,284.40	8,988,272.11	112,416,210	(YEN) 265,987,930

B-3-1 Temporary bridge (1/2)

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks
				US\$	LE	YEN	US\$	LE	YEN	
1	pile driving									
1)	driving H-beam	H400, L ≤ 12m (driving length)	139	piece	2,083.01			289,538.39		Breakdown No.604
		H400, L ≤ 9m (driving length)		piece	1,641.77					Breakdown No.605
		H350, L ≤ 12m (driving length)	45	piece	1,730.41			77,868.45		Breakdown No.606
		H350, L ≤ 9m (driving length)	148	piece	1,407.14			208,256.72		Breakdown No.607
		H300, L ≤ 6m (driving length)	55	piece	880.52			48,428.60		Breakdown No.608
2)	removing H-beam	L ≤ 12m (removing length)	184	piece	572.16			105,277.44		Breakdown No.612
		L ≤ 9m (removing length)	148	piece	486.33			71,976.84		Breakdown No.613
		L ≤ 6m (removing length)	55	piece	428.48			23,566.40		Breakdown No.614
3)	material fee for H-beam	exclude re-used material	634.4	t			33,300		21,123,855	JS-005×0.50
2	substructure									
1)	installation for substructure		46.7	t	5,381.06			251,295.50		Breakdown No.629
2)	removal for substructure		46.7	t	2,884.85			134,722.49		Breakdown No.630
3)	material fee for substructure		25.6	t	7,846.00			200,857.60		C-006×0.50
3	deck plate									
1)	installation for deck plate		3,700.0	m2	201.95			747,215.00		Breakdown No.618
2)	removal for deck plate		3,700.0	m2	103.28			382,136.00		Breakdown No.619
3)	material fee for deck plate	exclude re-used material	1,916.5	m2			11,700		22,423,160	JS-002×0.50
4	superstructure									
1)	installation for superstructure		468.1	t	2,736.49			1,280,950.96		Breakdown No.620
2)	removal for superstructure		468.1	t	1,511.24			707,411.44		Breakdown No.621
3)	material fee for superstructure	exclude re-used material	264.3	t			33,300		8,801,190	JS-005×0.50
5	guard pipe									
1)	installation for bridge railing		1,164.0	m	22.56			26,259.84		Breakdown No.622
2)	removal for bridge railing		1,164.0	m	12.88			14,992.32		Breakdown No.623
3)	material fee for bridge railing	@1.8m	374	nos			2,876		1,075,437	JS-003×0.50

B-8-14 Loading fee (for gate facilities)

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks
				US\$	LE	YEN	US\$	LE	YEN	
2	Loading fee	(from Japan to site)								
1)	custom fee		1.0	L.S			5,900		5,900	JP-066
2)	loading fee	Gate facilities	951.0	F/T			5,500		5,230,266	JP-070
3)	document fee		1.0	L.S			20,000		20,000	JP-068
Total									5,256,166	5,256,166

B-8-16 Port charge (for gate facilities)

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks	
				US\$	LE	YEN	US\$	LE	YEN		
4	Port charge (from Japan to site)										
1)	port charge	951.0	F/T		148.00			140,741.72		E-001	
2)	trust money for entry	951.0	F/T		60.00			57,057.45		E-003	
Total									197,799.17		1,283,717

B-8-17 Inland transpotation (for gate facilities)

No.	Item	Quantity	Unit	Unit Price			Amount			Remarks
				US\$	LE	YEN	US\$	LE	YEN	
5	Inland transpotation (from Alexandria to site)									
1)	inland transpotation	951.0	F/T		667.00			634,288.73		E-004
Total								634,288.73		4,116,534

D SUMMARY of Integrated Water Management System

No.	Item	Quantity	Unit	Unit Price			Amount			Amount Exchange to YEN	
				US\$	LE	YEN	US\$	LE	YEN		
D	Integrated Water Management System										
										(YEN)	
D-1	IWMS manufactures	1.0	L.S					15,676,546.12		101,740,784	
D-2	Installation for IWMS	1.0	L.S					15,951,897.71		103,527,816	
Total									31,628,443.83		205,268,600

E-8-4. Breakdown

List of Cost Breakdown

1/4

NO	Item	Detail	Unit	Unit Price		
				US\$	LE	YEN
103	Operation for backhoe (excavation , loading)	Q=0.8m3	day		4,230.33	
104	Operation for backhoe (excavation , loading)	Q=0.8m3	h		551.63	
105	Operation for backhoe (excavation/loading)	Q=0.45m3	day		3,299.73	
108	Operation for giant breaker		h		524.50	
109	Operation for bull dozer (grading/compaction)	21t	day		6,858.22	
111	Operation for bull dozer (grading/compaction)	15t	day		5,898.00	
112	Operation for bull dozer (grading/compaction)	15t	h		783.00	
113	Operation for wheel loader	Q=2.1m3	h		424.50	
113-1	Operation for wheel loader (night time operating)	Q=2.1m3	h		444.74	
114	Operation for Operation for motorgrader	blade w=3.1m	day		3,212.67	
116	Operation for dump truck	10t	day		2,840.84	
128	Operation for truck crane	35t	day		7,173.40	
129	Operation for truck crane	35t	h		917.19	
130	Operation for truck crane	20t	day		4,044.51	
137	Operaion for crawler crane	50t (50-55t equivalent)	day		14,725.06	
137-1	Operaion for crawler crane (night time operating)	50t (50-55t equivalent)	day		14,820.76	
139	Operaion for rough terrain crane	25t	day	Included in	rental fee	
140	Operaion for rough terrain crane	25t	h	Included in	rental fee	
143	Operation for truck with crane	4t/2.9t	day	Included in	rental fee	
147	Operation for trailer	30t	day		5,607.08	
149	Operation for concrete batching plant (night time operating)	30m3/h	h		747.91	
149-1	Operation for concrete batching plant (night time operating)	30m3/h	h		903.48	
151	Operation for concrete mixer car	10t	h	Included in	rental fee	
153	Operation for concrete pump car	40-75m3	h		639.40	
154	Operation for tire roller (compaction)	8-20t	day		3,115.09	
155	Operation for vibration roller (compaction)	unit combined roller 10t	day		2,793.63	
156	Operation for vibration roler (compaction)	unit combined roller 2.4~2.6t	day		1,997.32	
157	Operation for vibration roller	unit 0.8-1.1t	day		1,463.80	
158	Operation for road roller (compaction)	macadam roller unit 10-12t	day		2,762.21	
159	Operation for tamper (compaction)	60-100kg	day		671.58	
160	Operation for vibratory hammer	hydraulic, 232kW	day		15,564.67	
161	Operation for press-fitting machine	100~150t	day		213.15	54,456
164	Operation for generator	200KVA	day		478.38	
168-1	Operation for generator (dewatering)	35KVA	day		1,318.36	
169	Operation for compressor	5m3/min	day		58.97	
171	Operation for submassible pump	φ2 inch	day		1,075.00	
201	excavation / loading	0.8m3 back hoe	m3		19.82	
203	excavation with worker	0.8m3 back hoe	m3		28.32	
205	excavation / loading	0.8m3 back hoe	m3		19.22	
207	Backfill (B ≥ 4m)	compaction	m3		37.90	
208	Backfill (B < 4.0m)	vibratory roller, Tamper	m3		45.37	
210	backfill (less 1.0m)	Tamper	m3		88.49	
211	tamper	60~100KG	m3		34.13	
213	grading / compaction	15t bull dozer	m3		23.82	
214	grading / compaction	15t bull dozer	m3		52.29	
217	transpotation	10t dump truck, L=0.3km	m3		18.47	
218	Transportation	10t dump truck, L=20km	m3		135.51	
220	excavation by man power	man power	m3		154.56	
221	earth finishing for foundation	per 100m2	m2		7.36	
222	slope finishing by backhoe	0.8m3	m2		34.70	
223	finishing for earth foundation by man power	man power	m2		28.06	
224	gravel for foundation		m2		99.31	
225	gravel for backfill		m3		746.76	
226	Breaking by giant breaker (Plain concrete)	1,300kg class	m3		224.59	
227	Breaking by giant breaker (Reinforced concrete)	1,300kg class	m3		469.06	
232	breaked concrete disposal	L=20km	m3		194.01	
233	excavated soil disposal	L=0.3km	m3		42.29	
234	excavated soil disposal	L=0.3km	m3		159.33	

List of Cost Breakdown

2/4

NO	Item	Detail	Unit	Unit Price		
				US\$	LE	YEN
235	excavation / loading in water	0.8m3	m3		46.86	
237	big size sand bag(fill soil)	q=1m3	bag		350.03	
240	well pump installation/removal	φ2 inch	nos		1,238.60	
241	dewatering by water pump	φ2 inch	day		1,334.29	
243	Gabion box	0.5m×1m×2m, Galvanized	m		1,173.37	3,990
244	Gabion box	1m×1m×2m, Galvanized	m		2,355.33	8,920
245	Gabion box	SUS 32A	m		75.50	
255	improvement for soft ground (treatment by mixing cement)		m3		123.60	
301	re-bar work (cutting, bending, placing)	D= less 16mm	t		18,857.16	
302	re-bar work (cutting, bending, placing)	D=D18~D25	t		17,805.74	
304	formwork (fabrication,,setting,removal)	for reinforced/plain concrete	m2		400.74	
305	formwork (fabrication,,setting,removal)	for circular structure	m2		525.17	
306	formwork (fabrication,,setting,removal)	for main structure	m2		400.74	
307	formwork (fabrication,,setting,removal)	for small structure	m2		355.10	
308	formwork (fabrication,,setting,removal)	for lean concrete	m2		209.60	
309	prefabricated scaffolding (instalation,removal)		m2		161.52	
310	pipe scaffolding (instalation,removal)	per 100m2	m2		159.86	
314	wedged pipe supporting (instalation,removal)	(t<120cm)	m3		144.07	
316	Batching plant assembly / demolition	30m3/h	unit		109,080.79	
317	cement silo assembly/demolition	50t	unit		57,566.61	
318	Stock yard for concrete aggregate	installation / demolition (400m2)	unit		81,493.48	
320	mixing concrete	25N/mm2 (OPC)	m3		934.74	
320-1	mixing concrete (night time operating)	25N/mm2 (OPC)	m3		940.37	
321	mixing concrete	25N/mm2 (SRC)	m3		963.10	
321-1	mixing concrete (night time operating)	25N/mm2 (SRC)	m3		968.73	
322	mixing concrete	18N/mm2 (OPC)	m3		893.34	
323	mixing concrete	12N/mm2 (OPC)	m3		814.61	
324	mixing concrete	25N/mm2 (OPC, underwater concrete)	m3		897.50	
325	transpotation for concrete by truck mixer	L=0.2km, one way	m3	Included in rental fee		
330	placing concrete (25N/mm2, OPC)	reinforced concrete (over 30m3)	m3		1,356.29	
332	placing concrete (25N/mm2, SRC)	reinforced concrete (over 30m3)	m3		1,386.07	
332-1	placing concrete (25N/mm2, SRC) (night time operating)	reinforced concrete (over 30m3)	m3		1,446.03	
333	placing concrete (18N/mm2, OPC)	plain concrete (less 30m3)	m3		1,479.36	
334	placing concrete (18N/mm2, OPC)	plain concrete (over 30m3)	m3		1,326.22	
336	placing concrete (25N/mm2, OPC)	reinforced concrete (small size structure)	m3		1,257.46	
338	placing concrete (25N/mm2, OPC) by manpower	reinforced concrete (small structure)	m3		1,233.99	
339	placing concrete (18N/mm2) by manpower	plain concrete (small structure)	m3		1,109.76	
340	curing concrete	reinforced concrete	m3		7.83	
341	curing concrete	plain concrete	m3		12.92	
342	curing concrete	reinforced concrete (small size structure)	m3		30.22	
343	installation for water stop	PVC, w=230mm	m		37.54	2,214
344	installation for water stop	water-swelling	m		16.56	1,975
345	installation for joint filler	joint filler (bitumen), slip bar	m2		403.70	
347	anticorrosion painting	bitumen painting	m2		106.14	
348	steel step	W=300mm	nos		370.65	
350	installation for joint bar	D22	m		83.45	
351	installation for joint filler		m2		45.20	
352	foundation for steel stairs		nos		14,774.67	
401	stone masonry with mortar (slope inclination less 1:1)	cobble stone, t=35cm	m2		841.71	
405	stone rip rap	r≥24m	m3		766.83	
407	stone rip rap	r<9m	m3		606.24	
408	grading for stone rip rap	per 100m2	m2		76.86	
409	missing number					
411	installation for geotextile		m2		46.42	
452	installation and removal for fence for protect water pollution	(number of anchor@4.0m)	m		1,112.18	
502	base course	roadway, 1 layer	m2		132.78	

List of Cost Breakdown

3/4

NO	Item	Detail	Unit	Unit Price		
				US\$	LE	YEN
512	hand rail	Galvanized steel Handrail	m		1,395.28	
514	guard pipe	installation for guard pipe	m		1,212.12	
515	installation for grating		m2		232.34	18,090
516	installation for expansion joint	displacement Δ =20mm	m		232.34	35,190
517	installation for expansion joint	displacement Δ =35mm	m		232.34	55,800
518	installation for steel stairs		nos		129,944.00	
604	H-beam driving	H400, driving length $L \leq 12m$ ($N_{max} < 50$)	nos		2,083.01	
605	H-beam driving	H400, driving length $L \leq 9m$ ($N_{max} < 50$)	nos		1,641.77	
606	H-beam driving	H350, driving length $L \leq 12m$ ($N_{max} < 50$)	nos		1,730.41	
607	H-beam driving	H350, driving length $L \leq 9m$ ($N_{max} < 50$)	nos		1,407.14	
608	H-beam driving	H300, driving length $L \leq 6m$ ($N_{max} < 50$)	nos		880.52	
609	H-beam driving	H250, driving length $L \leq 4m$ ($N_{max} < 50$)	nos		673.91	
610	H-beam driving	H200 or less, driving length $L \leq 4m$ ($N_{max} < 50$)	nos		615.91	
611	removal for sheet pile / H-beam	removing length $L \leq 15m$ ($N_{max} < 50$)	sheet(piece)		658.61	
612	Removing sheet pile / H-beam	removing length $L \leq 12m$ ($N_{max} < 50$)	sheet(piece)		572.16	
613	Removing sheet pile / H-beam	removing length $L \leq 9m$ ($N_{max} < 50$)	sheet(piece)		486.33	
614	Removing sheet pile / H-beam	removing length $L \leq 6m$ ($N_{max} < 50$)	sheet(piece)		428.48	
615	Removing sheet pile / H-beam	removing length $L \leq 4m$ ($N_{max} < 50$)	sheet(piece)		371.90	
616	Installation for tie-rod and waling	(without material fee)	t		3,311.13	
618	Installation for deck plate	deck plate	m2		201.95	
619	removal for deck plate	deck plate	m2		103.28	
620	Installation for superstructure	big size	t		2,736.49	
621	removal for superstructure	big size	t		1,511.24	
622	Installation for bridge railing	bridge railing	m		22.56	
623	removal for bridge railing	bridge railing	m		12.88	
624	Rular work for piling	H-300 driving, $L \leq 4m$	piece		824.42	
625	Rular work for piling	H-300, removal, $L \leq 4m$	piece		797.43	
626	Rular work for piling	Installation and removal for guide frame	piece		12,463.45	
629	Installation for substructure	H-beam, Channel, etc.	t		5,381.06	
630	removal for substructure	H-beam, Channel, etc.	t		2,884.85	
631	Installation for platform	H-beam	t		910.22	
632	removal for platform	small size material	t		574.31	
633	Installation/removal for stage end		m2		95.64	
634	Installation for steel plate		m2		3.11	
635	removal for steel plate		m2		2.46	
642	Welding for steel plate	Fillet welding 9mm~12mm, face down	m		555.67	
643	Welding for steel plate (PU)	Fillet welding 9mm~12mm, face down	place		1,944.85	
646	Sheet pile cutting	for Steel sheet pile, H-beam	m		264.24	
649	Sheet pile driving	PU28+1, driving length $L \leq 15m$ ($N_{max} < 50$)	sheet		1,730.41	
650	Sheet pile driving	PU28+1, driving length $L \leq 12m$ ($N_{max} < 50$)	sheet		1,466.45	
651	Sheet pile driving	PU28+1, driving length $L \leq 9m$ ($N_{max} < 50$)	sheet		1,173.16	
652	Sheet pile driving	PU28+1, driving length $L \leq 6m$ ($N_{max} < 50$)	sheet		939.18	
653	Sheet pile driving	PU28+1, driving length $L \leq 4m$ ($N_{max} < 50$)	sheet		763.21	
654	Sheet pile driving	PU18, driving length $L \leq 15m$ ($N_{max} < 50$)	sheet		1,466.45	
655	Sheet pile driving	PU18, driving length $L \leq 12m$ ($N_{max} < 50$)	sheet		1,231.17	
656	Sheet pile driving	PU18, driving length $L \leq 9m$ ($N_{max} < 50$)	sheet		997.84	
657	Sheet pile driving	PU12, driving length $L \leq 12m$ ($N_{max} < 50$)	sheet		1,055.19	
658	Sheet pile driving	PU12, driving length $L \leq 9m$ ($N_{max} < 50$)	sheet		880.52	
659	Sheet pile driving	PU12, driving length $L \leq 6m$ ($N_{max} < 50$)	sheet		761.90	
660	Sheet pile driving	PU12, driving length $L \leq 4m$ ($N_{max} < 50$)	sheet		645.24	
661	Sheet pile driving	PU12, driving length $L \leq 2m$ ($N_{max} < 50$)	sheet		527.92	
662	Sheet pile press fitting	PU, driving length $L \leq 15m$ ($N_{max} \leq 25$)	sheet		165.71	5,233
663	Sheet pile press fitting	PU, driving length $L \leq 12m$ ($N_{max} \leq 25$)	sheet		130.98	4,139
664	Sheet pile press fitting	PU, driving length $L \leq 9m$ ($N_{max} \leq 25$)	sheet		103.68	3,280
665	Mobilization & demobilization	press fitting machine for sheet pile	LS		700.36	19,332
1001	labor fee for installation for gate facility (gate, gate guide, lifting equipment)	2 sheet roller gate	unit		2,211,540.73	
1002	materiaial fee for gate installation(gate, gate guide, lifting equipment)	2 sheet roller gate	unit		959,366.37	

List of Cost Breakdown

4/4

NO	Item	Detail	Unit	Unit Price		
				US\$	LE	YEN
1003	Crane operating fee(80t) for installation for gate facility(gate, gate guide, lifting equipment)	2 sheet roller gate	unit		1,708,697.36	
1004	Welder operating fee for installation for gate facility(gate, gate guide, lifting equipment)	2 sheet roller gate			298,370.95	
1005	labor fee for stop log installation (gate guide)		unit		809,772.25	
1006	labor fee for stop log installation (over head crane)		unit		27,802.88	
1007	material fee for stop log installation (over head crane, gate guide)	plate girder stop log (4 vents)	unit		353,289.35	
1008	machine fee for stop log installation		unit		96,731.31	
1009	installation of remote operation panel		nos		6,860.00	
1010	installation for electric power distribution board		nos		3,388.00	
1011	backup generator	50KVA	nos		33,246.50	
1012	water level indicator	1 units	unit		2,744.00	
1013	Installation for Steet light (mercury lump)	400W	基		18,533.63	
1014	electric cable	CV 3.5sq -2C	m		43.25	
1015	electric cable	CV 8sq -2C	m		66.44	
1016	electric cable	CV 14sq -2C	m		92.29	
1017	electric cable	CV 22sq -2C	m		124.83	
1018	electric cable	CV 2sq -3C	m		41.83	
1019	electric cable	CV 5.5sq -3C	m		71.80	
1020	electric cable	CV 8sq -3C	m		87.30	
1021	electric cable	CV 14sq -3C	m		123.72	
1022	electric cable	CV 22sq -3C	m		168.44	
1023	electric cable	CV 38sq -3C	m		254.94	
1024	electric cable	CV 8sq -4C	m		110.31	
1025	electric cable	CV 38sq -4C	m		327.64	
1026	electric cable	CW 2sq -4C	m		52.36	
1027	electric cable	CW 2sq -5C	m		63.91	
1028	electric cable	CW 2sq -8C	m		86.62	
1029	electric cable	CW 2sq -10C	m		106.68	
1030	electric cable	CW 2sq -20C	m		191.53	
1031	electric cable	CW 2sq -30C	m		253.71	
1032	electric cable	CWVS 2sq -2C	m		47.59	
1033	electric cable	CWVS 2sq -10C	m		124.83	
1034	electric cable	CWVS 2sq -15C	m		174.84	
1035	electric cable	CWVS 2sq -30C	m		272.75	
1036	electric cable	CPEV 0.9sq -3P	m		48.34	
1037	electric wire	IV 3.5sq	m		25.93	
1038	electric wire	IV 5.5sq	m		29.50	
1039	electric wire	IV 8sq	m		36.46	
1040	electric wire	IV 14sq	m		52.56	
1041	electric wire	IV 22sq	m		69.60	
1042	conduits	FEP 30	m		72.87	
1043	conduits	FEP 40	m		83.30	
1044	conduits	FEP 50	m		96.10	
1045	conduits	FEP 65	m		114.00	
1046	conduits	FEP 80	m		139.03	
1047	conduits	FEP 100	m		188.15	
1048	conduits	FEP 125	m		232.23	
1049	conduits	G 28	m		163.84	
1050	conduits	G 36	m		201.06	
1051	handhole	900×900×900	nos		18,600.65	
1052	earth work (excavation / backfill)		m3		116.67	
1101	installation for gate facility (gate, groove, lifting equipment)		unit		5,372,924.63	
1102	stop log installation materal fee (over head crane, groove)		unit		1,351,345.63	

Breakdown No.325

No.	Item	Grade	Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
325	transportation for concrete by truck mixer			m3							
	L=0.2km, one way										
	Operation for truck mixer	10t	0.14	h							Breakdown No. 151
	$Qa=60 \cdot qa \cdot Ea / Cma$ (m3/h) $=60 \cdot 4.4 \cdot 0.9 / 32 = 7.425$ (m3/h) $1 / 7.425 = 0.135$ $qa = 4.4$ m3 $Ea = 0.9$ $Cma = Cm1 + Cm2$ (min) = 32 (min) $Cm1 = 20$ (min) $Cm2 = 60 \cdot (L/V + t/60)$ $= 60 \cdot (0.4/12 + 10/60) = 12$ (min)										
Total											

included rental fee

Breakdown No.350

No.	Item	Grade	Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
350	installation for joint bar			m							
	D22										
	per 1nos										
	carpenter		0.18	person		391.00			71.94		A-026
	Incidental costs	16% of labor fee	1.00	unit					11.51		16%
Total									83.45		

Breakdown No.665

No.	Item	Grade	Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
665	Mobilization & demobilization	press fitting machine for sheet pile		LS							
	Forman		0.41	person		429.00			176.66		A-020
	Skilled labor		0.41	person		336.00			138.36		A-021
	Rigger		0.82	person		376.00			309.67		A-023
	Operation for press-fitting machine	100-150t	0.36	day		213.15	54,456		75.67	19,332	Breakdown No. 161
Total									700.36	19,332	

Breakdown No.1002

No.	Item	Grade	Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
1002	material fee for gate installation(gate, gate guide, lifting equipment)										
	2 sheet roller gate		1.00	unit							
	※labor fee for Mechanic 382LE×3.5×6.49YEN/LE= 8,677YEN (A-032)										
	labor fee for Mechanic in Japan 20,900YEN (SV-05)										
	20,900/8,677=2.41										
	rate = (14.0% + 4.0%) × 2.41 = 43.38%										43.38%
	material fee										
		43.38% of labor fee	1.00	unit		959,366.37			959,366.37		× Incidental costs rate
	Total								959,366.37		

Breakdown No.1007

No.	Item	Grade	Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
1007	material fee for stop log installation (over head crene, gate guide)		1.00	unit							
	plate girder stop log (4 vents)										
1	gate guide										
	※ 382LE×3.5×6.49YEN/LE= 8,677YEN (A-032)										
	20,900 YEN (SV-05)										
	20,900/8,677=2.41										
	Incidental costs = (14.0% + 4.0%) × 2.41 = 43.38%										
	material fee	43.38 % of labor fee for stop log	1.00	unit		351,279.20			351,279.20		× Incidental costs rate
2	over head crane										
	manual operation, 5t										
	※rate of installation : 1.0%										
	※rate of subservient materials : 2.0%										
	Incidental costs = (1.0% + 2.0%) × 2.41 = 7.23%										
	material fee	7.23 % of labor fee for stop log	1.00	unit		2,010.15			2,010.15		× Incidental costs rate
	Total										
									353,289.35		

Breakdown No.1012

No.	Item	Grade	Quantity	Unit	Unit Price			Amount			Remarks
					US\$	LE	YEN	US\$	LE	YEN	
1012	water level indicator		1.00	unit							
	1 units										
1	electric technician	N=1.0	1.00	person		431.20			431.20		A-031×1.1
2	electrician	N=2.0	7.00	person		392.00			2,744.00		A-031
Total									2,744.00		

CLIENT:		
PROJECT : Construction of the New Dirout Group of Regulators		SUMMARY
Building Name : Control House, Local Control and Stop Log Buildings		TENDER DOCUMENTS- REV 1
Item no.	Item description	Amount L.E
1	Control House Cost	2,669,915
2	Local Control Cost (2 buildings)	815,100
3	Stoplog Stoor Room Cost	1,104,550
Entire Cost of All Buildings		4,589,565

* The above entire cost is including the indirect cost (35% of the direct cost).

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION A – EARTHWORK	
Building Name : Control House				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION A - EARTHWORK					
1	Excavation in any kinds of soil down to required foundation level including supporting sides of excavation with safe and proper method, shoring, dewatering and compaction excavation bottom, the price shall include disposal of excavated materials off site to an approved dumping area.	740	m ³	30	22,200
2	Soil replacement from material supplied from outside according to specification to with at least 50 cm thickness and to the required levels according to drawings	150	m ³	120	18,000
3	Backfill using suitable excavated soil approved materials as recommended in soil report; lay on 25 thick for each layer including compaction up to 95% of dry density as per specifications.	350	m ³	80	28,000
TOTAL SECTION A					68,200

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION B – CONCRETE	
Building Name : Control House				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Rates of Concrete Works shall include all form works, shuttering in any form, shape and size, allowing for and making grooves and sleeves and the like; removal of forms, making good the harmed surfaces and edges and all surface finishing, supplying, casting, vibrating and curing as per specifications, approved additives and admixtures. The cost will include concrete mix designs, sample taking, testing and providing test results certificates, preparation of bar bending schedules and workshops, supplying reinforcement of any grade, size and length as detailed in the drawings, spacers, bar testing and providing test results certificates, all as per the Engineer's instruction.					
SECTION B - CAST-IN-PLACE CONCRETE					
	<u>Plain Cast- in-Place Concrete</u>				
1	Below Isolated Footings and ground beam.	120	m ³	1000	120000
2	Slab on grade 20 cm.	50	m ³	1000	50000
3	70mm average slope light weight concrete for Roof.	250	m ²	90	22500
	<u>Reinforced cast-in-place concrete with type (I) cement, the minimum 28 days cubic compressive strength fcu,300 kg/cm² including formwork, movement joints, and construction joints, water stop wherever necessary and concrete tests all as per drawings and in accordance with specifications. Items include steel bar reinforcement</u>				
1	Isolated Footings	70	m ³	4200	294000
2	Ground Beams	15	m ³	4500	67500
3	Columns	40	m ³	4800	192000
4	Beams	40	m ³	4800	192000
5	Slabs	75	m ³	4500	337500
TOTAL SECTION B					1,275,500

CLIENT:				SECTION C – MASONRY TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Supply and apply Light Weight unit masonry, of max density 600 kg/m ³ including- but not limited to cement mortar (1:4) bedding, all types of joints, lintels, jointing curing, stiffeners, bed joint reinforcement, ties, head restraint and RC ring beam if needed as detailed in the drawings as well as all shop drawings and tests according to the specification and the Engineer's instructions.					
SECTION C - UNIT MASONRY					
1	120 mm thick wall	370	m ²	140	51800
2	250 mm thick wall	170	m ³	1000	170000
TOTAL SECTION C					221,800

CLIENT:				SECTION D – THERMAL AND MOISTURE PROTECTION TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
The price includes all Detailed manufacturer shop drawings and data sheet required for approval before commencing the work.					
Samples required for all accessories for approval before the commencing of the work.					
The price shall include- but not limited to -all needed tests, overlaps, waterstops, junctions, joints and sealants , protectin layers, accessories.					
Time schedule to be submitted for approval and monthly update by the contractor.					
SECTION D- THERMAL AND MOISTURE PROTECTION					
MOISTURE PROTECTION					
1	Cold fluid applied 3 coats bituminous paints for foundations and building below ground level all as per drawings and specifications	625	m ²	35	21875
2	Waterproofing Membrane 4 mm thick. for Roofs Toilets and wet areas, including overlaps , protection screed . Sealant and vertical skirting	350	m ²	120	42000
THERMAL PROTECTION					
1	Injected Polystyrene 50 mm thick. for roof heat insulation.	200	m ²	110	22000
TOTAL SECTION D					85,875

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SECTION E – DOORS AND WINDOWS TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION E - DOORS AND WINDOWS					
ALUMINUM WINDOWS					
	<u>Powder coated aluminum Windows including glazing, frame, hardware, fixation and all accessories to complete work according to specifications and drawings</u>				
1	Window type W1	29	No.	2000	58000
2	Window type W 2	6	No.	1800	10800
3	Window type W3	4	No.	2000	8000
4	Window type W4	2	No.	2000	4000
SECTION 08120- ALUMINUM DOORS AND FRAMES					
	<u>Powder coated aluminum doors including glazing, frame, hardware, fixation and all accessories to complete work according to specifications and drawings</u>				
1	Door type D 6	4	No.	4000	16000
STEEL DOORS AND FRAMES					
	<u>Supply and install Steel doors with high quality according to specification and client approval the item include and limited to finishing, frame, hardware, fixation and all accessories to complete work according to specifications and drawings</u>				
1	Door type D 1	3	No.	6000	18000
SECTION 08210- WOOD DOORS AND FRAMES					
	<u>Wooden door, including frame, fixation, hardwares, and all accessories to complete work according to specifications and drawings</u>				
1	Door type D 2	3	No.	3000	9000

CLIENT:				SECTION E – DOORS AND WINDOWS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
2	Door type D 3	4	No.	6000	24000
3	Door type D 4	4	No.	3000	12000
4	Door type D 5	6	No.	3000	18000
TOTAL SECTION E					177,800

CLIENT:				SECTION F – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION F – FINISHES					
The rates for Finishes shall include but not limited to the provision and installation of materials, labours, metal stop or angle beads, lathing at joints of different backgrounds, Construction joint sealants, all Types of Fixtures , Floor Moulds, threshold, Skirting wherever required, accesories ,trim and Special Shapes, together with the provision of any samples or sample panels, according to drawings , Specs and instruction by the Engineer .					
The price includes all Detailed manufacturer shop drawings and data sheet required for approval before commencing the work.					
Samples required for all accessories for approval before commencing the work.					
Time schedule to be submitted for approval and monthly update by the contractor.					
LATH AND PLASTER					
	<u>Cement plaster applied directly on surfaces of external concrete or masonry including metal beads and other fixing accessories all in accordance with the specifications.</u>				
1	Internal Ceilings	370	m ²	50	18500
2	Internal Walls	700	m ²	50	35000
3	External walls and other places where required.	550	m ²	100	55000
PAINTING					
1	Supply and apply emulsion paint for Internal walls and ceiling to plaster , as shown on the drawings according to specification and client approval.	1,100	m ²	75	82500
2	Supply and apply Kemstone paint for External walls to plaster, as shown on the drawings according to specification and client approval.	550	m ²	100	55000
MOZAIC TILES					
1	Supply and apply Mozaic tiles for the Sidewalk and terrace the item include clean sand and mortar layers and all requirements to complete works as per drawings and specifications	280	m ²	100	28000

CLIENT:				SECTION F – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
TOTAL					274,000

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SECTION F – FINISHES TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
CERAMIC TILES					
1	Supply and apply Ceramic floor tiles 300x300 mm laid on screed including fixing , sand leveling , expansion joints and sealants as required and grout according to technical specifications	370	m ²	180	66600
2	Supply and apply ceramic wall tiles including fixing, leveling , expansion joints and sealants , mortar bedding for concrete and brick wall, and adhesive material to the dry partitions according to drawings and technical specifications.	285	m ²	200	57000
3	Supply and apply ceramic Skirting 15 cm including fixing, leveling and all the required for completing the work according to drawings and technical specifications.	290	m	80	23200
MARBLE FLOORING					
1	Supply and apply Galala marble marble to stairs landings laid on screed including side Skirting, fixing , mortar , sand leveling , and pointed in coloured grout, according to drawings and technical specifications	10	m ²	400	4000
2	Supply and apply Galala marble for Stairs (Rise 20 mm Thick and Tread 40 mm Thick) including , side Skirting , grooves, and laid on screed including fixing , mortar, sand leveling , and pointed in coloured grout, according to drawings and technical specifications	75	m	250	18750
TOTAL					169,550

CLIENT:				SECTION F – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION F - FINISHES - SUMMARY					
	<u>Section Summary Page</u>				
1	Page 1				274,000
2	Page 2				169,550
SECTION F – FINISHES					443,550

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS					
EARTHING SYSTEM					
	<u>Supply, install, connect and test of earthing system including excavation and backfilling, welding, test links, earthing pits, including earthing of building foundation reinforcing bans and all necessary accessories and ancillary works as per specifications and</u>				
1	Earthing system for power systems (less than 3 ohm)	1	LS	10000	10000
2	Earthing system for low current systems (less than 1 ohm)	1	LS	5000	5000
Wires and Cables					
Low Voltage Cables					
	<u>Supply, install, connect and test of low voltage cables (0.6/1 KV) installed on cable trays or extended in conduits including cables, cable trays, cable ladders, conduits, manholes, duct banks, identifications, cable terminations and all necessary accessories and ancillary works as per specifications and</u>				
	Multicore XLPE/PVC insulated copper cables				
1	(4 x 25)+16E mm2	1	LS	20000	20000
TOTAL					35,000

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Raceways, Boxes and Fittings					
Lighting Outlets					
	<u>Supply, install, connect and test of wall or ceiling lighting outlet, including conduit, conduit fittings, cable trunking, PVC/PVC cables (from panel board to the first outlet in the circuit) then using single core PVC copper conductors inside conduits till last outlet in the circuit , earthing, cable trunking, conduits, boxes and all necessary accessories and ancillary works as per</u>				
1	Lighting outlet for lighting fixture type F1	31	No.	350	10850
2	Lighting outlet for lighting fixture type F2	12	No.	350	4200
3	Lighting outlet for lighting fixture type F3	18	No.	350	6300
4	Lighting outlet for lighting fixture type F4	4	No.	350	1400
5	Lighting outlet for lighting fixture type F5	6	No.	350	2100
6	Lighting outlet for lighting fixture type F6	4	No.	350	1400
7	Lighting outlet for lighting fixture type F7	4	No.	350	1400
8	Lighting outlet for lighting fixture type F10	16	No.	350	5600
9	Lighting outlet for lighting fixture type EXIT sign	2	No.	300	600
Lighting Switches Outlets					
	<u>Supply, install, connect and test of outlets for lighting switches, including conduits, conduit fittings, wiring / cables, earthing and all necessary accessories and ancillary works as per specifications and drawings.</u>				
1	Outlet for one way one gang switch 10 A.	14	No.	250	3500
2	Outlet for one way one gang switch 10 A (Weather proof).	6	No.	270	1620
3	Outlet for one way two gang switch 10 A.	3	No.	260	780
4	Outlet for one way two gang switch 10 A (Weather proof).	2	No.	280	560

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
5	Outlet for two way one gang switch 10 A.	14	No.	270	3780
TOTAL					44,090

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Socket Outlets					
	<u>Supply, install, connect and test of socket outlets including conduits, conduit fittings, cable trunking, PVC/PVC cables (from panel board to the first outlet in the circuit) then using single core PVC copper conductors inside conduits till last outlet in the circuit, cables and wires sizes as per panel board schedules and all necessary accessories and ancillary works as per specifications and drawings</u>				
1	Outlet for single phase single socket 16 A.	8	No.	400	3200
2	Outlet for single phase single socket 16 A.(Weather proof)	4	No.	420	1680
3	Outlet for single phase duplex socket 16 A.	40	No.	400	16000
4	Outlet for single phase power socket 20 A.	1	No.	450	450
5	Electric outlet 20 A water heater	2	No.	450	900
6	Exhaust fan outlet 10 A, 220 V	6	No.	300	1800
Switch Disconnectors (Isolators) Outlets					
	<u>Supply, install, connect and test of isolators outlets including conduits, conduit fittings, cable trunking, PVC/PVC cables / wiring, , earthing and all necessary accessories and ancillary works as per specifications and</u>				
1	Outlet for 20 A, 220 V, disconnect switch	1	No.	450	450
2	Outlet for 25 A, 220 V, disconnect switch	12	No.	500	6000
Wiring Devices					
Switches					
	<u>Supply, install, connect and test of lighting switches as listed below, complete with all necessary accessories, spare parts and ancillary works as per specifications and</u>				
1	one way one gang switch 10 A.	14	No.	200	2800
2	one way one gang switch 10 A (Weather proof).	6	No.	250	1500
3	one way two gang switch 10 A.	3	No.	250	750

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
4	one way two gang switch 10 A (Weather proof).	2	No.	280	560
5	two way one gang switch 10 A.	14	No.	280	3920
TOTAL					40,010

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Electrical Sockets					
	<u>Supply, install, connect and test of sockets as specified and as shown in drawings and as listed below, complete with all necessary accessories, spare parts and ancillary works as per specifications and drawings.</u>				
1	single phase single socket 16 A.	8	No.	300	2400
2	single phase single socket 16 A.(Weather proof)	4	No.	360	1440
3	single phase duplex socket 16 A.	40	No.	350	14000
4	single phase power socket 20 A.	1	No.	500	500
Lighting Fixtures					
	<u>Supply, install, connect , test and commission of disconnect switches (isolators) including all necessary accessories and ancillary works required for complete installation as per specifications and drawings.</u>				
1	20 A, 220 V, disconnect switch	1	No.	450	450
2	25 A, 220 V, disconnect switch	12	No.	500	6000
Low Voltage Distribution Boards					
	<u>Supply, install, connect and test of low voltage distribution boards including circuit breakers relays and all necessary accessories, spare parts and ancillary works as per specifications and drawings.</u>				
1	PB-G	1	No.	12000	12000
2	PB-F	1	No.	12000	12000
Addressable Fire Alarm System					

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
	<u>Supply, install, test and connect of the following to the fire alarm control panel at the control house and monitoring building according to standard specifications and drawings complete with fire resistance cable (2x1.5 mm2) insulated inside uPVC conduits of fire resistance type with appropriate diameters, conduit fittings, hand holes, junction boxes with insulated terminal strips, if required, with ceiling plates, nuts, washers and all necessary accessories and ancillary works required for complete operative system as specified and as shown in the drawings.</u>				
1	Addressable type fire alarm control and display panel (FACP)	1	No.	100000	100000
2	Addressable type fire alarm optical type smoke detector	11	No.	350	3850
3	Addressable fire alarm multi detector	1	No.	350	350
4	Addressable fire alarm manual call station	2	No.	350	700
5	Fire alarm signal control module	2	No.	350	700
6	Fire alarm Siren with flash	2	No.	350	700
7	Control module	2	No.	350	700
8	Fire alarm End- of- line unit	2	No.	350	700
9	Air Condition	5	No.	12000	60000
TOTAL					216,490

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS					
	<u>Section Summary Page</u>				
1	Page 1				35,000
2	Page 2				44,090
3	Page 3				40,010
4	Page 4				216,490
SECTION G – ELECTRICAL WORKS					335,590

CLIENT:				SECTION H – MECHANICAL	
PROJECT : Construction of the New Dirout Group of Regulators				TENDER DOCUMENTS- REV 1	
Building Name : Control House					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
PIPING AND FITTING MATERIALS					
	<u>Supply, install, connect, and test polypropylene piping (PN20) systems for Domestic cold, hot water systems located aboveground and all around the building. Hot water pipes shall be insulated as specified. The pipes shall be surface or embedded complete, including pipes and fittings, valves , supports and hangers and all other accessories according to the specification and as shown on drawings.</u>				
1	2 " Pipe diameter	20	M	300	6000
2	1" Pipe diameter	25	M	190	4750
3	0.5 " Pipe diameter	25	M	140	3500
	<u>Supply, install, connect and test all soil, waste and vent UPVC vertical, horizontal drainage piping system inside the building complete including pipes, fittings, couplings, supports, hangers and all other accessories as specified and as shown on drawings.</u>				
4	3" Pipe diameter	35	M	250	8750
5	4" Pipe diameter	25	M	320	8000
PLUMBING SPECIALTIES					
2	Supply and Install (F.D) floor drain with 150 mm round flat strainer and stainless steel cover. Thhe F.D. outlet shall be 82 mm diameter.	8	No.	600	4800
5	Supply and Install roof drain (RD-01). The roof drain shall be coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar	2	No.	900	1800
TOTAL					37600

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION H – MECHANICAL	
Building Name : Control House				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION 15440- PLUMBING FIXTURES AND TRIM					
1	Toilet seat the item include and not limited to valves & toilet tissue holder. shall be equipped with flexible perineal hose. The item shall include the necessary water supply & drainage piping according to specification and tender drawings.	6	No.	2000	12000
2	Lavatory (LAV) complete with water mixer,The item shall include the necessary water supply & drainage piping complete with all other accessories according to specification and tender drawings.	6	No.	1000	6000
3	Urinal (UR) with flush valve The item shall include the necessary water supply & drainage piping according to specification and tender drawings.	4	No.	1500	6000
TOTAL					24000

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION H – MECHANICAL	
Building Name : Control House				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION H – MECHANICAL - SUMMARY					
	<u>Section Summary Page</u>				
1	Page 1				37600
2	Page 2				24000
TOTAL SECTION H					61600

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Control House				SUMMARY TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
TOTAL SUMMARY					
Sections Summary Page					
SECTION A					68,200
SECTION B					1,275,500
SECTION C					221,800
SECTION D					85,875
SECTION E					177,800
SECTION F					443,550
SECTION G					335,590
SECTION G					61,600
TOTAL OF DIVISIONS					2,669,915

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION A – EARTHWORK	
Building Name : Local Control Room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION A - EARTHWORK					
1	Excavation in any kinds of soil down to required foundation level including supporting sides of excavation with safe and proper method, shoring, dewatering and compaction excavation bottom, the price shall include disposal of excavated materials off site to an approved dumping area.	225	m ³	<u>30</u>	6,750
2	Soil replacement from material supplied from outside according to specification to with at least 50 cm thickness and to the required levels according to drawings	45	m ³	120	5,400
3	Backfill using suitable excavated soil approved materials as recommended in soil report; lay on 25 thick for each layer including compaction up to 95% of dry density as per specifications.	125	m ³	80	10,000
TOTAL SECTION A					22,150

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION B – CONCRETE	
Building Name : Local Control Room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Rates of Concrete Works shall include all form works, shuttering in any form, shape and size, allowing for and making grooves and sleeves and the like; removal of forms, making good the harmed surfaces and edges and all surface finishing, supplying, casting, vibrating and curing as per specifications, approved additives and admixtures. The cost will include concrete mix designs, sample taking, testing and providing test results certificates, preparation of bar bending schedules and workshops, supplying reinforcement of any grade, size and length as detailed in the drawings, spacers, bar testing and providing test results certificates, all as per the Engineer's instruction.					
SECTION B - CAST-IN-PLACE CONCRETE					
	<u>Plain Cast- in-Place Concrete</u>				
1	Below Isolated Footings and ground beam.	36	m ³	1000	36000
2	70mm average slope light weight concrete for Roof.	60	m ²	90	5400
	<u>Reinforced cast-in-place concrete with type (I) cement, the minimum 28 days cubic compressive strength fcu,300 kg/cm² including formwork, movement joints, and construction joints, water stop wherever necessary and concrete tests all as per drawings and in accordance with specifications.</u> <u>Items include steel bar reinforcement</u>				
1	Isolated Footings	18	m ³	4200	75600
2	Ground Beams	5	m ³	4500	22500
3	Columns	7	m ³	4800	33600
4	Beams	8	m ³	4800	38400
5	Slabs	9	m ³	4500	40500
TOTAL SECTION B					252,000

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION C – MASONARY	
Building Name : Local Control Room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Supply and apply Light Weight unit masonry, of max density 600 kg/m ³ including- but not limited to cement mortar (1:4) bedding, all types of joints, lintels, jointing curing, stiffeners, bed joint reinforcement, ties, head restraint and RC ring beam if needed as detailed in the drawings as well as all shop drawings and tests according to the specification and the Engineer's instructions.					
SECTION C - UNIT MASONRY					
1	250 mm thick wall	30	m ³	1000	30000
TOTAL SECTION C					30,000

CLIENT:				SECTION D – THERMAL AND MOISTURE PROTECTION TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
The price includes all Detailed manufacturer shop drawings and data sheet required for approval before commencing the work.					
Samples required for all accessories for approval before the commencing of the work.					
The price shall include- but not limited to -all needed tests, overlaps, waterstops, junctions, joints and sealants , protectin layers, accessories.					
Time schedule to be submitted for approval and monthly update by the contractor.					
SECTION D- THERMAL AND MOISTURE PROTECTION					
1	Cold fluid applied 3 coats bituminous paints for foundations all as per drawings and specifications	200	m ²	35	7000
TOTAL SECTION D					7,000

CLIENT:				SECTION E – DOORS AND WINDOWS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION E - DOORS AND WINDOWS					
ALUMINUM WINDOWS					
1	<u>Powder coated aluminum Windows including glazing, frame, hardware, fixation and all accessories to complete work according to specifications and drawings</u> Window type W01	6	No.	2200	13200
STEEL DOORS AND FRAMES					
1	Powder coated aluminum doors including glazing, frame, hardware, fixation and all accessories to complete work according to specifications and drawings Door type D1, Two Leaves Steel Door	1	No.	6000	6000
TOTAL SECTION E					19,200

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION F – FINISHES	
Building Name : Local Control Room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION F – FINISHES					
The rates for Finishes shall include but not limited to the provision and installation of materials, labours, metal stop or angle beads, lathing at joints of different backgrounds, Construction joint sealants, all Types of Fixtures , Floor Moulds, threshold, Skirting wherever required, accesories ,trim and Special Shapes, together with the provision of any samples or sample panels, according to drawings , Specs and instruction by the Engineer .					
The price includes all Detailed manufacturer shop drawings and data sheet required for approval before commencing the work.					
Samples required for all accessories for approval before commencing the work.					
Time schedule to be submitted for approval and monthly update by the contractor.					
LATH AND PLASTER					
	<u>Cement plaster applied directly on surfaces of external concrete or masonry including metal beads and other fixing accessories all in accordance with the specifications.</u>				
1	Internal Ceilings	60	m ²	50	3000
2	Internal Walls	110	m ²	50	5500
3	External walls and other places where required.	110	m ²	100	11000
MOZAIC TILES					
1	Supply and apply Mozaic tiles for the Sidewalk item include clean sand and mortar layers and all requirements to complete works as per drawings and specifications	8	m ²	100	800
FLUID APPLIED FLOORING					
1	Helicopter finished Exposed P. concrete 20 cm Thickness	50	m ²	300	15000
PAINTING					

CLIENT:				SECTION F – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
1	Supply and apply emulsion paint for Internal walls and ceiling to plaster , as shown on the drawings .	165	m ²	50	8250
2	Supply and apply Kemstone paint for External walls to plaster, as shown on the drawings .	110	m ²	100	11000
SECTION F – FINISHES					54,550

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION G – FINISHES	
Building Name : Local Control Room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS					
Raceways, Boxes and Fittings					
Lighting Outlets					
	<u>Supply, install, connect and test of wall or ceiling lighting outlet, including conduit, conduit fittings, cable trunking, PVC/PVC cables (from panel board to the first outlet in the circuit) then using single core PVC copper conductors inside conduits till last outlet in the circuit , earthing, cable trunking, conduits, boxes and all necessary accessories and ancillary works as per specifications and drawings.</u>				
1	Lighting outlet for lighting fixture type F9	6	No.	450	2700
2	Lighting outlet for lighting fixture type EXIT sign	1	No.	300	300
TOTAL					3,000

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Local Control Room				SECTION G – FINISHES TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Lighting Switches Outlets					
	<u>Supply, install, connect and test of outlets for lighting switches, including conduits, conduit fittings, wiring / cables, earthing and all necessary accessories and ancillary works as per specifications and drawings.</u>				
1	Outlet for one way one gang switch 10 A.	2	No.	250	500
Socket Outlets					
	<u>Supply, install, connect and test of socket outlets including conduits, conduit fittings, cable trunking, PVC/PVC cables (from panel board to the first outlet in the circuit) then using single core PVC copper conductors inside conduits till last outlet in the circuit , cables and wires sizes as per panel board schedules and all necessary accessories and ancillary works as per specifications and drawings</u>				
1	Outlet for single phase power socket 20 A.	2	No.	500	1000
Wiring Devices					
Switches					
	<u>Supply, install, connect and test of lighting switches as listed below, complete with all necessary accessories, spare parts and ancillary works as per specifications and drawings.</u>				
1	one way one gang switch 10 A.	2	No.	200	400
Electrical Sockets					
	<u>Supply, install, connect and test of sockets as specified and as shown in drawings and as listed below, complete with all necessary accessories, spare parts and ancillary works as per specifications and</u>				
1	single phase power socket 20 A.	2	No.	500	1000

CLIENT:				SECTION G – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
TOTAL					2,900

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION G – FINISHES	
Building Name : Local Control Room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Low Voltage Distribution Boards					
	<u>Supply, install, connect and test of low voltage distribution boards including circuit breakers relays and all necessary accessories, spare parts and ancillary works as per specifications and drawings.</u>				
1	PB-ST	1	No.	4000	4000
Lighting Fixtures					
	<u>Supply, install, connect and test of lighting fixtures including lamps, ballast and lamp holders and all necessary accessories, spare parts and ancillary works as per specifications and as shown in lighting fixtures schedules.</u>				
1	Lighting fixture type F9	6	No.	1600	9600
2	Lighting fixture type EXIT sign	1	No.	700	700
Addressable Fire Alarm System					
	<u>Supply, install, test and connect of the following to the fire alarm control panel at the control house and monitoring building according to standard specifications and drawings complete with fire resistance cable (2x1.5 mm2) insulated inside uPVC conduits of fire resistance type with appropriate diameters, conduit fittings, hand holes, junction boxes with insulated terminal strips, if required, with ceiling plates, nuts, washers and all necessary accessories and ancillary works required for complete operative svstem as specified</u>				
1	Addressable fire alarm multi detector	2	No.	350	700
2	Addressable fire alarm manual call station	1	No.	350	350
3	Fire alarm signal control module	1	No.	350	350
4	Fire alarm Siren with flash weather proof type	1	No.	350	350

CLIENT:				SECTION G – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
5	Control module	1	No.	350	350
6	Fire alarm End- of- line unit	1	No.	350	350
TOTAL					16,750

CLIENT:				SECTION G – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS - SUMMARY					
	<u>Section Summary Page</u>				
1	Page 1				3,000
2	Page 2				2,900
3	Page 3				16,750

CLIENT:				SECTION G – FINISHES TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Local Control Room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS					22,650

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Local Control Room				SUMMARY TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
TOTAL SUMMARY					
Sections Summary Page					
SECTION A					22,150
SECTION B					252,000
SECTION C					30,000
SECTION D					7,000
SECTION E					19,200
SECTION F					54,550
SECTION G					22,650
Note) The total amount in this sheet should be double to evaluate two local control house in the Bahr Yusef and the Ibrahimia regulator					
TOTAL OF DIVISIONS for 1 building					407,550

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION A – EARTHWORK	
Building Name : Stoplog store room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION A - EARTHWORK					
1	Excavation in any kinds of soil down to required foundation level including supporting sides of excavation with safe and proper method, shoring, dewatering and compaction excavation bottom, the price shall include disposal of excavated materials off site to an approved dumping area.	860	m ³	30	25,800
2	Soil replacement from material supplied from outside according to specification to with at least 50 cm thickness and to the required levels according to drawings	135	m ³	120	16,200
3	Backfill using suitable excavated soil approved materials as recommended in soil report; lay on 25 thick for each layer including compaction up to 95% of dry density as per specifications.	220	m ³	80	17,600
TOTAL SECTION A					59,600

CLIENT:				SECTION B – CONCRETE TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Rates of Concrete Works shall include all form works, shuttering in any form, shape and size, allowing for and making grooves and sleeves and the like; removal of forms, making good the harmed surfaces and edges and all surface finishing, supplying, casting, vibrating and curing as per specifications, approved additives and admixtures. The cost will include concrete mix designs, sample taking, testing and providing test results certificates, preparation of bar bending schedules and workshops, supplying reinforcement of any grade, size and length as detailed in the drawings, spacers, bar testing and providing test results certificates, all as per the Engineer's instruction.					
SECTION B - CAST-IN-PLACE CONCRETE					
	<u>Plain Cast- in-Place Concrete</u>				
1	Below Isolated Footings and ground beam.	110	m ³	1000	110000
2	70mm average slope light weight concrete for Roof.	155	m ²	90	13950
	<u>Reinforced cast-in-place concrete with type (I) cement, the minimum 28 days cubic compressive strength fcu,300 kg/cm² including formwork, movement joints, and construction joints, water stop wherever necessary and concrete tests all as per drawings and in accordance with specifications.</u> <u>Items include steel bar reinforcement</u>				
1	Isolated Footings	45	m ³	4200	189000
2	Ground Beams	12	m ³	4500	54000
3	Columns	20	m ³	4800	96000
4	Beams	32	m ³	4800	153600
5	Slabs	10	m ³	4500	45000
TOTAL SECTION B					661,550

CLIENT:				SECTION C – MASONRY TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Supply and apply Light Weight unit masonry, of max density 600 kg/m ³ including- but not limited to cement mortar (1:4) bedding, all types of joints, lintels, jointing curing, stiffeners, bed joint reinforcement, ties, head restraint and RC ring beam if needed as detailed in the drawings as well as all shop drawings and tests according to the specification and the Engineer's instructions.					
SECTION C - UNIT MASONRY					
1	250 mm thick wall	100	m ³	1000	100000
TOTAL SECTION C					100,000

CLIENT:				SECTION D – THERMAL AND MOISTURE PROTECTION TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
The price includes all Detailed manufacturer shop drawings and data sheet required for approval before commencing the work.					
Samples required for all accessories for approval before the commencing of the work.					
The price shall include- but not limited to -all needed tests, overlaps, waterstops, junctions, joints and sealants , protectin layers, accessories.					
Time schedule to be submitted for approval and monthly update by the contractor.					
SECTION D- THERMAL AND MOISTURE PROTECTION					
1	Cold fluid applied 3 coats bituminous paints for foundations and building below ground level all as per drawings and specifications	750	m ²	35	26250
TOTAL SECTION D					26,250

CLIENT:				SECTION E – DOORS AND WINDOWS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION E - DOORS AND WINDOWS					
ALUMINUM WINDOWS					
1	<u>Powder coated aluminum Windows including glazing, frame, hardware, fixation and all accessories to complete work according to specifications and drawings</u> Window type W01	10	No.	2200	22000
STEEL DOORS AND FRAMES					
1	Supply and install roller shutter with high quality according to specification and client approval the item include and limited to the operating motors,all fixations and electrical connection. Roler Shutter 3500*3500 mm	1	No.	10000	10000
TOTAL SECTION E					32,000

CLIENT:					
PROJECT : Construction of the New Dirout Group of Regulators				SECTION F – FINISHES	
Building Name : Stoplog store room				TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION F – FINISHES					
The rates for Finishes shall include but not limited to the provision and installation of materials, labours, metal stop or angle beads, lathing at joints of different backgrounds, Construction joint sealants, all Types of Fixtures , Floor Moulds, threshold, Skirting wherever required, accesories ,trim and Special Shapes, together with the provision of any samples or sample panels, according to drawings , Specs and instruction by the Engineer .					
The price includes all Detailed manufacturer shop drawings and data sheet required for approval before commencing the work.					
Samples required for all accessories for approval before commencing the work.					
Time schedule to be submitted for approval and monthly update by the contractor.					
LATH AND PLASTER					
	<u>Cement plaster applied directly on surfaces of external concrete or masonry including metal beads and other fixing accessories all in accordance with the specifications.</u>				
1	Internal Ceilings	155	m ²	50	7750
2	Internal Walls	415	m ²	50	20750
3	External walls and other places where required.	390	m ²	100	39000
FLUID APPLIED FLOORING					
1	Helicopter finished Exposed P. concrete 20 cm Thickness	170	m ²	300	51000
2	Rough finished Exposed P.concrete 20 cm Thickness	70	m ²	250	17500
PAINTING					
1	Supply and apply emulsion paint for Internal walls and ceiling to plaster , as shown on the drawings .	550	m ²	50	27500
2	Supply and apply Kemstone paint for External walls to plaster, as shown on the drawings .	390	m ²	100	39000
SECTION F – FINISHES					202,500

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS					
Raceways, Boxes and Fittings					
Lighting Outlets					
	<u>Supply, install, connect and test of wall or ceiling lighting outlet, including conduit, conduit fittings, cable trunking, PVC/PVC cables (from panel board to the first outlet in the circuit) then using single core PVC copper conductors inside conduits till last outlet in the circuit , earthing, cable trunking, conduits, boxes and all necessary accessories and ancillary works as per specifications and drawings.</u>				
1	Lighting outlet for lighting fixture type F9	6	No.	450	2700
2	Lighting outlet for lighting fixture type EXIT sign	1	No.	300	300
TOTAL					3,000

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Stoplog store room				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Lighting Switches Outlets					
	<u>Supply, install, connect and test of outlets for lighting switches, including conduits, conduit fittings, wiring / cables, earthing and all necessary accessories and ancillary works as per specifications and drawings.</u>				
1	Outlet for one way one gang switch 10 A.	2	No.	250	500
Socket Outlets					
	<u>Supply, install, connect and test of socket outlets including conduits, conduit fittings, cable trunking, PVC/PVC cables (from panel board to the first outlet in the circuit) then using single core PVC copper conductors inside conduits till last outlet in the circuit , cables and wires sizes as per panel board schedules and all necessary accessories and ancillary works as per specifications and drawings</u>				
1	Outlet for single phase power socket 20 A.	2	No.	500	1000
Wiring Devices					
Switches					
	<u>Supply, install, connect and test of lighting switches as listed below, complete with all necessary accessories, spare parts and ancillary works as per specifications and drawings.</u>				
1	one way one gang switch 10 A.	2	No.	200	400
Electrical Sockets					
	<u>Supply, install, connect and test of sockets as specified and as shown in drawings and as listed below, complete with all necessary accessories, spare parts and ancillary works as per specifications and</u>				
1	single phase power socket 20 A.	2	No.	500	1000

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
TOTAL					2,900

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
Low Voltage Distribution Boards					
	<u>Supply, install, connect and test of low voltage distribution boards including circuit breakers relays and all necessary accessories, spare parts and ancillary works as per specifications and drawings.</u>				
1	PB-ST	1	No.	4000	4000
Lighting Fixtures					
	<u>Supply, install, connect and test of lighting fixtures including lamps, ballast and lamp holders and all necessary accessories, spare parts and ancillary works as per specifications and as shown in lighting fixtures schedules.</u>				
1	Lighting fixture type F9	6	No.	1600	9600
2	Lighting fixture type EXIT sign	1	No.	700	700
Addressable Fire Alarm System					
	<u>Supply, install, test and connect of the following to the fire alarm control panel at the control house and monitoring building according to standard specifications and drawings complete with fire resistance cable (2x1.5 mm2) insulated inside uPVC conduits of fire resistance type with appropriate diameters, conduit fittings, hand holes, junction boxes with insulated terminal strips, if required, with ceiling plates, nuts, washers and all necessary accessories and ancillary works required for complete operative svstem as specified</u>				
1	Addressable fire alarm multi detector	2	No.	350	700
2	Addressable fire alarm manual call station	1	No.	350	350
3	Fire alarm signal control module	1	No.	350	350
4	Fire alarm Siren with flash weather proof type	1	No.	350	350

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
5	Control module	1	No.	350	350
6	Fire alarm End- of- line unit	1	No.	350	350
TOTAL					16,750

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS - SUMMARY					
	<u>Section Summary Page</u>				
1	Page 1				3,000
2	Page 2				2,900
3	Page 3				16,750

CLIENT:				SECTION G – ELECTRICAL WORKS TENDER DOCUMENTS- REV 1	
PROJECT : Construction of the New Dirout Group of Regulators					
Building Name : Stoplog store room					
Item no.	Item description	Qty	Unit	Rate	Amount L.E
SECTION G – ELECTRICAL WORKS					22,650

CLIENT: PROJECT : Construction of the New Dirout Group of Regulators Building Name : Stoplog store room				SUMMARY TENDER DOCUMENTS- REV 1	
Item no.	Item description	Qty	Unit	Rate	Amount L.E
TOTAL SUMMARY					
Sections Summary Page					
SECTION A					59,600
SECTION B					661,550
SECTION C					100,000
SECTION D					26,250
SECTION E					32,000
SECTION F					202,500
SECTION F					22,650
TOTAL OF DIVISIONS					1,104,550

Integrated Water Management System

As of 16 April, 2017

No.	Item	Grade	Unit	Quantity	Rate			Amount		
					Foreign		Local	Foreign		Local
					JPY	US\$	L.E.	JPY	US\$	L.E.
WM-1. Gauging station (Type-A (5 nos))										
WM-1- 1	WATER LEVEL SENSOR	including Cables	set	5		2,845				14,223
WM-1- 2	SOLAR CELLS PANEL	including Mount Bracket, Cables	set	5		635				3,175
WM-1- 3	ENCLOSURE	including Mount Bracket	set	5		1,729				8,643
WM-1- 4	SURGE PROTECTIVE DEVICE	including Cables for water level sensor	set	5		500				2,500
WM-1- 5	SURGE PROTECTIVE DEVICE	including Cables for solar cells panel	set	5		1,100				5,500
WM-1- 6	GPRS MODEM	including Antenna, Mount Bracket, Cables	set	5		2,310				11,550
WM-1- 7	RTU	including Mount Bracket, Cables	set	5		2,970				14,848
WM-1- 8	DATA LOGGER	including Mount Bracket, Cables	set	5		1,500				7,500
WM-1- 9	POWER CHARGE CONTROLLER	including Mount Bracket, Cables	set	5		585				2,926
WM-1- 10	STORAGE BATTERY	including Mount Bracket, Cables	set	5		375				1,873
WM-1- 11	GROUNDING TERMINAL	including Mount Bracket	set	5		100				500
WM-1- 12	Program software for RTU		set	5		2,113				10,563
Total										83,799

As of 16 April, 2017

No.	Item	Grade	Unit	Quantity	Rate			Amount		
					Foreign		Local	Foreign		Local
					JPY	US\$	L.E.	JPY	US\$	L.E.
WM-2. Gauging station (Type-B (36 nos))										
WM-2- 1	WATER LEVEL SENSOR	including Cables	set	72		2,845				204,804
WM-2- 2	SOLAR CELLS PANEL	including Mount Bracket, Cables	set	36		635				22,860
WM-2- 3	ENCLOSURE	including Mount Bracket	set	36		1,729				62,230
WM-2- 4	SURGE PROTECTIVE DEVICE	including Cables for water level sensor	set	72		500				36,000
WM-2- 5	SURGE PROTECTIVE DEVICE	including Cables for solar cells panel	set	36		1,100				39,600
WM-2- 6	GPRS MODEM	including Antenna, Mount Bracket, Cables	set	36		2,310				83,160
WM-2- 7	RTU	including Mount Bracket, Cables	set	36		2,970				106,902
WM-2- 8	DATA LOGGER	including Mount Bracket, Cables	set	36		1,500				54,000
WM-2- 9	POWER CHARGE CONTROLLER	including Mount Bracket, Cables	set	36		585				21,068
WM-2- 10	STORAGE BATTERY	including Mount Bracket, Cables	set	36		375				13,482
WM-2- 11	GROUNDING TERMINAL	including Mount Bracket	set	36		100				3,600
WM-2- 12	Program software for RTU		set	36		2,113				76,050
Total										723,756

As of 16 April, 2017

No.	Item	Grade	Unit	Quantity	Rate			Amount		
					Foreign		Local	Foreign		Local
					JPY	US\$	L.E.	JPY	US\$	L.E.
	WM-3. Master station									
WM-3 1	LCD MONITOR	including Wall mount bracket	set	1		4,200			4,200	
WM-3 2	LASER PRINTER	including Table, Cables	set	1		3,250			3,250	
WM-3 3	SERVER	including Monitor, Keyboard, Mouse, Cables	sets	3		9,400			28,200	
WM-3 4	COMPUTER RACK	including Power duct, Power Unit, Brank panel	set	1		4,580			4,580	
WM-3 5	GPRS MODEM	including Antenna, Rack mount plate, Cables	set	1		2,050			2,050	
WM-3 6	PERSONAL COMPUTER	including Monitor, Keyboard, Mouse, Cables	set	1		1,850			1,850	
WM-3 7	LCD KVM SWITCH	including Rack mount bracket, Cables	set	1		4,200			4,200	
WM-3 8	L2-SW	including Rack mount bracket, Cables	set	1		2,300			2,300	
WM-3 9	ROUTER	including Rack mount plate, Cables	set	1		3,000			3,000	
WM-3 10	UPS	including Rack mount plate, Cables (1KVA)	set	1		7,925			7,925	
WM-3 11	Software		set	1		16,250			16,250	
WM-3 12	Application software for Telemetry system		set	1		1,625			1,625	
Total									79,430	

As of 16 April, 2017

No.	Item	Grade	Unit	Quantity	Rate			Amount		
					Foreign		Local	Foreign		Local
					JPY	US\$	L.E.	JPY	US\$	L.E.
	WM-4. Monitoring station									
WM-4 1	LCD MONITOR	including WALL MOUNT XETTING OPTION	set	1		4,200			4,200	
WM-4 2	PERSONAL COMPUTER	including 22"Monitor, Keyboard, Mouse, Cables	set	1		1,850			1,850	
WM-4 3	ROUTER	including Cables	set	1		3,000			3,000	
WM-4 4	Application software for Telemetry system		set	1		1,625			1,625	
Total									10,675	

As of 16 April, 2017

No.	Item	Grade	Unit	Quantity	Rate			Amount		
					Foreign		Local	Foreign		Local
					JPY	US\$	L.E.	JPY	US\$	L.E.
	WM-5. Installation Cost									
WM-5- 1	Gauging station (41 stations)	including site acquisition, cost of fence and pole with foundation works, fixing equipments, adjustment and others	LS	1		905,689			905,689	
WM-5- 2	Master and Monitoring station	including cables, installation and adjustment	LS	1		7,738			7,738	
Total									913,427	

WM-1. Gauging station (Type-A (5 nos))	83,799
WM-2. Gauging station (Type-B (36 nos))	723,756
WM-3. Master station	79,430
WM-4. Monitoring station	10,675
	897,660 USD

WM-5. Installation Cost	
Gauging station (41 stations)	905,689
Master and Monitoring station	7,738
	913,427 USD

Total 1,811,087 USD (= 31,628,452 LE)

E-8-5. Unit Price List

A. Personnel Fee (Local)

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1USD=	113.34 JPY
	1LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
A-01	Civil engineer	20 years experience	Month	41,675	1.000	47,926	311,040	+15%
A-02	Civil engineer	15 years experience	Month	31,700	1.000	36,455	236,593	+15%
A-03	Civil engineer	10 years experience	Month	23,409	1.000	26,920	174,711	+15%
A-04	Civil engineer	5 years experience	Month	16,315	1.000	18,762	121,765	+15%
A-05	Architect	20 years experience	Month	41,675	1.000	47,926	311,040	+15%
A-06	Architect	15 years experience	Month	31,700	1.000	36,455	236,593	+15%
A-07	Architect	10 years experience	Month	23,409	1.000	26,920	174,711	+15%
A-08	Architect	5 years experience	Month	16,315	1.000	18,762	121,765	+15%
A-09	Mechanical engineer	10 years experience	Month	20,859	1.000	23,988	155,682	+15%
A-10	Electrical engineer	10 years experience	Month	21,359	1.000	24,563	159,414	+15%
A-11	Surveyor		Month	13,790	1.000	15,859	102,925	+15%
A-12	Surveyor Assistant		Month	8,140	1.000	9,361	60,753	+15%
A-13	Draft man	CAD operator	Month	11,123	1.000	12,791	83,014	+15%
A-14	Administrator	10 years experience	Month	15,077	1.000	17,339	112,530	+15%
A-15	Administrative secretary		Month	8,540	1.000	9,821	63,738	+15%
A-16	Asistant administrator		Month	7,244	1.000	8,331	54,068	+15%
A-17	Office boy		Month	4,782	1.000	5,499	35,689	+15%
A-18	Driver	Dump, Cargo	Month	10,113	1.000	11,630	75,479	+15%
A-19	Security guard	Daytime	Month	4,250	1.000	4,888	31,723	+15%
A-20	Forman		Day	373	1.000	429	2,784	+15%
A-21	Skilled labor		Day	292	1.000	336	2,181	+15%
A-22	Common labor		Day	184	1.000	184	1,194	
A-23	Rigger		Day	327	1.000	376	2,440	+15%
A-24	Re-bar fixer		Day	327	1.000	376	2,440	+15%
A-25	Operator	for construction equipm	Day	378	1.000	435	2,823	+15%
A-26	Carpenter		Day	340	1.000	391	2,538	+15%
A-27	Plasterer		Day	322	1.000	370	2,401	+15%
A-28	Masonry		Day	322	1.000	370	2,401	+15%
A-29	Painter		Day	322	1.000	370	2,401	+15%
A-30	Welder		Day	361	1.000	415	2,693	+15%
A-31	Electrician	General	Day	341	1.000	392	2,544	+15%
A-32	Mechanic		Day	332	1.000	382	2,479	+15%
A-33	Plumber		Day	322	1.000	370	2,401	+15%
A-34	Security		Day		1.000			+15%
A-35	Driver	Dump, Cargo	Day	383	1.000	440	2,856	+15%

B. Equipment Hire

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIRIOUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1USD=	113.34 JPY
	1LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
B-1	Backhoe	0.45m3	Day	2,733	1.000	2,733	17,737	
B-2	Backhoe	0.8m3	Day	3,567	1.000	3,567	23,150	
B-3	Backhoe	1.4m3	Day	3,993	1.000	3,993	25,915	
B-4	Breaker	1300kg	Day	3,350	1.000	3,350	21,742	
B-5	Truck crane	5t	Day	2,737	1.000	2,737	17,763	
B-6	Truck crane	20t	Day	3,963	1.000	3,963	25,720	
	Truck crane	25t	Day	5,195	1.000	5,195	33,716	
B-7	Truck crane	35t	Day	6,608	1.000	6,608	42,886	
B-8	Truck crane	50t	Day	9,410	1.000	9,410	61,071	
B-9	Truck crane	80t	Day	13,490	1.000	13,490	87,550	
	Crawler crane	30 - 35t	Day	7,995	1.000	7,995	51,888	
	Crawler crane	40 - 45t	Day	9,699	1.000	9,699	62,947	
B-13	Crawler crane	50 - 55t	Day	14,153	1.000	14,153	91,853	
	Crawler crane	80t	Day	14,375	1.000	14,375	93,294	
B-17	Clamshell	0.8m3	Day	3,500	1.000	3,500	22,715	
B-18	Rough terrain crane	20t	Day	2,933	1.000	2,933	19,035	
B-19	Rough terrain crane	25t	Day	3,833	1.000	3,833	24,876	
	Rough terrain crane	30t	Day	5,000	1.000	5,000	32,450	
	Rough terrain crane	50t	Day	7,733	1.000	7,733	50,187	
B-22	Bulldozer	15t	Day	5,288	1.000	5,288	34,319	
B-23	Bulldozer	21t	Day	6,075	1.000	6,075	39,427	
B-24	Wheel Shovel (Loader)	2.1m3	Day	2,437	1.000	2,437	15,816	
B-25	Dump truck	4t	Day	1,290	1.000	1,290	8,372	
B-26	Dump truck	10t	Day	2,255	1.000	2,255	14,635	
B-27	Truck	4t	Day	1,053	1.000	1,053	6,834	
B-28	Truck	6t	Day	1,463	1.000	1,463	9,495	
B-29	Truck	11t	Day	1,910	1.000	1,910	12,396	
B-30	Truck with crane	4t/2t	Day	2,313	1.000	2,313	15,011	
B-31	Trailer	15t	Day	3,468	1.000	3,468	22,507	
	Trailer	20t	Day	4,258	1.000	4,258	27,634	
B-32	Trailer	30t	Day	4,945	1.000	4,945	32,093	
B-33	Asphalt cutter	D30cm	Day		1.000			
B-34	Compressor	5m3/min	Day		1.000			
B-35	Hammer drill	30kg	Day		1.000			
B-36	Hand breaker	20kg	Day		1.000			
B-37	Plate compactor	60-100kg	Day	596	1.000	596	3,868	
B-38	Tamping rammer	60-100kg	Day	317	1.000	317	2,057	
B-39	Vibratory roller	0.8-1.1t	Day	1,118	1.000	1,118	7,256	
B-40	Vibratory roller	3 - 4t	Day	1,538	1.000	1,538	9,982	
B-41	Vibratory roller	8 - 10t	Day	2,265	1.000	2,265	14,700	
B-42	Pneumatic tire roller	8-20t	Day	2,603	1.000	2,603	16,893	
B-45	Mixer truck	4.4m3	Day	2,580	1.000	2,580	16,744	
B-46	Mixer truck	5m3	Day	2,513	1.000	2,513	16,309	
B-47	Concrete batcher plant	30m3/h	Day	14,138	1.000	14,138	91,756	
	Concrete batcher plant	45m3/h	Day	21,708	1.000	21,708	140,885	
B-48	Cement silo	50t	Day	1,915	1.000	1,915	12,428	
B-49	Concrete pump	40~75m3/h	Day	3,978	1.000	3,978	25,817	
	Concrete pump	90~110m3/h	Day	5,468	1.000	5,468	35,487	
B-50	Motorgrader	W3.2m, 120PS	Day	2,678	1.000	2,678	17,380	
	Asphalt finisher	Width 1.4 - 3.0m	Day	3,353	1.000	3,353	21,761	
B-51	Asphalt finisher	Width 2.4 - 6.0m	Day	4,668	1.000	4,668	30,295	
	Road Roller	10 - 12t	Day	2,323	1.000	2,323	15,076	
	Tire Roller	8 - 20t	Day	2,540	1.000	2,540	16,485	

B. Equipment Hire

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1USD=	113.34 JPY
	1LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
B-52	Welding Machine	300A	Day	965	1.000	965	6,263	
B-53	Concrete Vibrator	D50mm	Day	420	1.000	420	2,726	
B-54	Submersible Pump	6inch h=10m	Day	683	1.000	683	4,433	
B-55	Submersible Pump	4inch h=15m	Day	824	1.000	824	5,348	
B-56	Submersible Pump	2inch h=30m	Day	1,075	1.000	1,075	6,977	
	Generator	300kva	Day	2,402	1.000	2,402	15,589	
B-58	Generator	200kva	Day	1,774	1.000	1,774	11,513	
B-59	Generator	150kva	Day	1,513	1.000	1,513	9,819	
	Generator	100kva	Day	1,228	1.000	1,228	7,970	
B-60	Generator	75kva	Day	1,128	1.000	1,128	7,321	
	Generator	50kva	Day	1,015	1.000	1,015	6,587	
B-61	Generator	35kva	Day	943	1.000	943	6,120	
B-62	Vibrate Hummer for driving steel	90kw	Day	5,069	1.000	5,069	32,898	
B-63	Vibrate Hummer for driving steel	60kw	Day	2,889	1.000	2,889	18,750	
B-64	Re-bar cutter	D41	Day	830	1.000	830	5,387	
B-65	Re-bar bender	D41	Day	830	1.000	830	5,387	
	Water Tank Truck	10m ³	Day	2,099	1.000	2,099	13,623	
	Water jet	14.7MPa、325ℓ/min	Day	692	1.000	692	4,491	
	Reverse Circulation Drill	rotary table, D3,200mm, H200m	Day	300	1.000	300	1,947	
	Hydraulic Press-fitting and Pulling	4 jacks, D1,000mm	Day	300	1.000	300	1,947	

C. Construction Material

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1USD=	113.34 JPY
	1LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
C-1	Reinforcing bar	φ10	Ton	10,650	1.000	11,317	73,447	※1
C-2	Reinforcing bar	D12 - D16	Ton	10,775	1.000	11,442	74,259	※1
C-3	Reinforcing bar	D18- D25	Ton	10,775	1.000	11,442	74,259	※1
C-4	Reinforcing bar	D29 - D41	Ton	11,488	1.000	12,155	78,886	※1
C-6	H-beam	Size up to 200x200	Ton	15,025	1.000	15,692	101,841	※1
C-7	H-beam	H300x300 and more	Ton	15,650	1.000	16,317	105,897	※1
	Maintenance fee for H-beam		Ton	9,000	1.000	9,000	58,410	
C-8	Steel angle	L50x50	Ton	13,175	1.000	13,175	85,506	
C-9	Steel angle	L75x75	Ton	13,900	1.000	13,900	90,211	
	Channel	C150×75×6.5	Ton	15,025	1.000	15,025	97,512	
	Channel	C200×80×7.5	Ton	15,025	1.000	15,025	97,512	
	Channel	C250×90×9	Ton	15,025	1.000	15,025	97,512	
C-11	Tie-rod (NHT690 2pcs/rod, L=10m)	φ70	Ton	7,000	1.000	7,000	45,430	
	Tie-rod (NHT690 2pcs/rod, L=10m)	φ75	Ton	7,500	1.000	7,500	48,675	
	Tie-rod (NHT690 2pcs/rod, L=10m)	φ80	Ton	8,000	1.000	8,000	51,920	
C-12	Steel wire		Kg	25	1.000	25	162	
C-13	Barbed wire		Kg	22	1.000	22	143	
C-14	Galvanized Gabion box	2x1x1m, 3.9mm wire	pc	1,667	1.000	1,667	10,819	
C-18	Cement (Sulfate Resisting Cement)	type V, 50kg bag	Ton	1,046	1.000	1,233	8,002	※1
C-19	Cement (Nomal Portland Cement)	type I, 50kg bag	Ton	968	1.000	1,155	7,496	※1
C-20	Non shrink cement		kg	4,380	1.000	4,380	28,426	
C-25	Water reducing agent		Lit.	23	1.000	23	149	
C-28	Fine aggregate for concrete		m3	81	1.000	262	1,700	※3
C-29	Coarse aggregate for concrete	25-40mm	m3	163	1.000	353	2,291	※3
C-30	Sand for backfill		m3	61	1.000	67	435	※2
C-31	Crushed stone for pavement		m3	129	1.000	471	3,057	※3
C-32	Cobble	200-400mm	m3	109	1.000	449	2,914	※3
C-33	Timber	50W*50H*4000L	m3	5,400	1.000	5,400	35,046	
C-34	Plywood	1.22x2.44 m T=12mm	m2	193	1.000	193	1,253	
	Plywood	1.22x2.44 m T=18mm	m2	238	1.000	238	1,545	
C-35	Plywood (coating)	1.22x2.44 m T=12mm	m2	218	1.000	218	1,415	
	Plywood (coating)	1.22x2.44 m T=18mm	m2	254	1.000	254	1,648	
	Concrete form oil		ℓ	10	1.000	10	65	
	Sandbag	48×62cm	pc	17	1.000	17	110	
	Sandbag (1 ton)	86×86×120cm	pc	163	1.000	163	1,058	
C-36	Steel plate	1.2m×2.5m, t=22mm	pc	4,893	1.000	4,893	31,756	
C-37	Steel plate	1.5m×3.0m, t=22mm	pc	6,357	1.000	6,357	41,257	
	Checkered steel plate	1.2m×2.5m, t=22mm	pc	4,285	1.000	4,285	27,810	
	Checkered steel plate	1.5m×3.0m, t=22mm	pc	5,770	1.000	5,770	37,447	
C-38	Oil boom	upper 30cm÷lower 40cm (from water surface)	m	1,000	1.000	1,000	6,490	
C-40	Oil paint		Lit.	46	1.000	46	299	
C-41	Emulsion paint		Lit.	40	1.000	40	260	
C-42	Acrylics paint		Lit.	48	1.000	48	312	
C-43	Vinyl paint		Lit.	52	1.000	52	337	
C-45	Emulsion putty		Lit.	34	1.000	34	221	
C-46	Oil putty		Lit.	34	1.000	34	221	
C-47	Brick	200x100x60	1000pc	1,033	1.000	1,033	6,704	
C-48	Concrete block	150x200x400	1000pc	5,995	1.000	5,995	38,908	
C-49	Asphalt water proofing sheet		m2	82	1.000	82	532	
	Roof drain	for φ100mm, PVC		440	1.000	440	2,856	
C-50	Polystyrene form	t=50mm	m2	108	1.000	108	701	
C-51	Bitumen		Kg	18	1.000	18	117	
C-52	Common glass	t=4mm	m2	73	1.000	73	474	

C. Construction Material

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1 USD=	113.34 JPY
	1 LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
C-53	Glass containing a net	t=6.8mm	m2	190	1.000	190	1,233	
C-54	Stainless steel hinge		pc	138	1.000	138	896	
C-55	Door lock		pc	472	1.000	472	3,063	
C-56	Door closer		pc	1,152	1.000	1,152	7,476	
C-57	Aluminum window	1500x1000	m2	2,568	1.000	2,568	16,666	
C-58	Aluminum louver	1000x500	m2	2,623	1.000	2,623	17,023	
C-59	Steel door	2000x2500	m2	25,867	1.000	25,867	167,877	
C-60	Wooden door	600x2000	pc	3,677	1.000	3,677	23,864	
C-61	Galvanized steel Handrail	H=1.100	m	1,190	1.000	1,190	7,723	
C-62	Steel stairs	W:1.2m x H:10m	t	30,700	1.000	30,700	199,243	
C-63	Guardrail for Bridge (galvanized steel)	H:1.2m	m	2,330	1.000	2,330	15,122	
C-64	Guardrail for Road (galvanized steel)	H:1.1m	m	1,860	1.000	1,860	12,071	
C-65	Guardpipe for Road (galvanized steel)	H:1.1m	m	1,110	1.000	1,110	7,204	
C-66	Polyethylene sheet	t=0.15mm	m2	22	1.000	22	143	
C-67	Grating (galvanized steel)	T-20	m2	4,140	1.000	4,140	26,869	
C-68	Ceramic tile		m2	162	1.000	162	1,051	
C-69	Terrazzo tile		m2	119	1.000	119	772	
C-70	Marble stone		m2	797	1.000	797	5,173	
C-71	Cement tile	200*200*20	m2	79	1.000	79	513	
C-72	P-Tile	300*300*4mm	m2	166	1.000	166	1,077	
C-73	Gypsum board	t=12	m2	180	1.000	180	1,168	
C-74	Cement board	t=6	m2	137	1.000	137	889	
	Corner bead	t=9mm	m	166	1.000	166	1,077	
	Ceiling access hatch	t=1600mm	pc	2,330	1.000	2,330	15,122	
C-77	Nail	55mm	kg	33	1.000	33	214	
C-78	PVC pipe	φ250	m	350	1.000	350	2,272	
C-79	PVC pipe	φ200	m	253	1.000	253	1,642	
C-80	PVC pipe	φ150	m	148	1.000	148	961	
C-81	PVC pipe	φ100	m	98	1.000	98	636	
C-82	PVC pipe	φ 50	m	39	1.000	39	253	
C-83	PVC pipe	φ 25	m	21	1.000	21	136	
C-90	Galvanized steel pipe	25A	m	75	1.000	75	487	
C-91	Galvanized steel pipe	50A	m	140	1.000	140	909	
C-92	Galvanized steel pipe	100A	m	263	1.000	263	1,707	
C-93	Galvanized steel pipe	200A	m	587	1.000	587	3,810	
C-94	Galvanized steel pipe	300A	m	843	1.000	843	5,471	
C-95	Rabber shoe for Bridge	Pad type, t=32mm	m2	96,600	1.000	96,600	626,934	
	Rabber shoe for Bridge	Pad type, t=40mm	m2	118,680	1.000	118,680	770,233	
	Rabber shoe for Bridge	Pad type, t=50mm	m2	151,800	1.000	151,800	985,182	
C-96	Expansion joint for Bridge	steel, ∠=20mm	m2	4,140	1.000	4,140	26,869	
	Expansion joint for Bridge	steel, ∠=35mm	m2	5,520	1.000	5,520	35,825	
	Anchor rod for bridge	fixed, φ32	pc	1,110	1.000	1,110	7,204	
	Anchor rod for bridge	movable, φ32	pc	1,110	1.000	1,110	7,204	
C-135	Dowell bar	φ28, L=700mm	pc	165	1.000	165	1,071	
C-136	Dowell bar cap	φ28	pc	67	1.000	67	435	
C-98	Water stop (Rabber type)	w:230mm	m	153	1.000	153	993	
C-99	Elastic expansion joint filler	20mm	m2	270	1.000	270	1,752	
C-137	Geotextile	nylon · polyester, t=0.5mm	m2	38	1.000	38	247	
C-100	Electric wire	2mm2-2C	m	11	1.000	11	71	
C-101	Electric wire	2mm2-3C	m	14	1.000	14	91	
C-102	Electric wire	3.5mm2-2C	m	18	1.000	18	117	
C-103	Electric wire	3.5mm2-3C	m	23	1.000	23	149	
C-104	Electric wire	3.5mm2-4C	m	33	1.000	33	214	

C. Construction Material

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1USD=	113.34 JPY
	1LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
C-105	Electric wire	5.5mm2-2C	m	31	1.000	31	201	
C-106	Electric wire	5.5mm2-3C	m	42	1.000	42	273	
C-107	Electric wire	5.5mm2-4C	m	56	1.000	56	363	
C-108	Electric wire	8mm2-3C	m	65	1.000	65	422	
C-109	Electric wire	14mm2-3C	m	82	1.000	82	532	
C-110	Electric wire	22mm2-3C	m	179	1.000	179	1,162	
C-111	Electric wire	30mm2-3C	m	223	1.000	223	1,447	
C-112	Electric wire	38mm2-3C	m	265	1.000	265	1,720	
C-113	Electric conduit pipe	φ20	m	26	1.000	26	169	
C-114	Electric conduit pipe	φ50	m	42	1.000	42	273	
C-115	Electric conduit pipe	φ100	m	77	1.000	77	500	
C-116	Electric conduit pipe	φ150	m	135	1.000	135	876	
C-117	Switch	AC300V 10A	pc	346	1.000	346	2,246	
C-118	Socket outlet	AC250V 2P-13A	pc	208	1.000	208	1,350	
C-119	Pull box	100x100x100	pc	119	1.000	119	772	
C-120	Breaker	MCB 4P 50AF/30AT	pc	873	1.000	873	5,666	
C-121	Breaker	ELB 2P 50AF/20AT	pc	3,445	1.000	3,445	22,358	
C-122	Power distribution board	MCB 2P 50AF/20AT x14	pc	6,990	1.000	6,990	45,365	
C-123	Fluorescent light (Ceiling type)	20Wx4 (Ceiling)	set	833	1.000	833	5,406	
C-124	Fluorescent light (Ceiling mounted type)	40Wx2 (Ceiling)	set	799	1.000	799	5,186	
C-125	Fluorescent light (Ceiling mounted type)	40Wx1 (Ceiling)	set	465	1.000	465	3,018	
C-126	Fluorescent light (Wall mounted type)	18Wx1 (Wall)	set	450	1.000	450	2,921	
C-127	Incandescent lamp (Ceiling mounted type)	60W*1 (Ceiling)	set	367	1.000	367	2,382	
C-128	Incandescent lamp (Waterproof type)	60W*1 (Wall)	set	565	1.000	565	3,667	
C-129	Ventilation fan	400CMHx14mmAp	set	6,365	1.000	6,365	41,309	
C-130	Ventilation fan	580CMHx7mmAp	set	16,700	1.000	16,700	108,383	
C-131	Air-conditioner	5500kcal/h	set	15,887	1.000	15,887	103,107	
C-132	Washstand		set	3,000	1.000	3,000	19,470	
C-133	Sink cabinet		set	7,500	1.000	7,500	48,675	
C-134	Transformer (3-phase)	200KVA	set	266,459	1.000	266,459	1,729,319	
C-135	Transformer (3-phase)	100KVA	set	211,500	1.000	211,500	1,372,635	
K-001	Caulking material		kg	130	1.000	130	844	
K-002	Hydrated lime		kg	6	1.000	6	39	
K-003	Abrasive paper		sh	8	1.000	8	52	
P-001	Coated steel pipe	6.4mm	m	57	1.000	57	370	
P-002	Coated steel pipe	15.9mm	m	82	1.000	82	532	
P-003	Slice valve	32mm	pc	150	1.000	150	974	
P-004	Gass cock	GC25	pc	5,500	1.000	5,500	35,695	
P-005	Screw cock	GC25	pc	35,000	1.000	35,000	227,150	
P-006	Drain plate	COA100	pc	1,637	1.000	1,637	10,624	
P-007	Western style toilet bowl	Lowtank type	pc	2,000	1.000	2,000	12,980	
P-008	Water faucet		pc	1,375	1.000	1,375	8,924	
P-009	Sewage tank	450x450x600	pc	5,000	1.000	5,000	32,450	
P-010	Valve	40A	pc	300	1.000	300	1,947	
P-012	Soak pit	1200φ x 2,600mm	pc	15,000	1.000	15,000	97,350	
M-002	Ventilation fan (Ceiling)	550CMH x 7mA	pc	4,500	1.000	4,500	29,205	
M-003	Ventilation fan (Wall)	400CMH x 7mA	pc	5,000	1.000	5,000	32,450	
M-004	Fan for pipe	100φ 100 m3/h	pc	1,310	1.000	1,310	8,502	
M-005	Air filter	500x1000x25	pc	600	1.000	600	3,894	
M-006	Air filter	500x1500x25	pc	750	1.000	750	4,868	
M-007	Spiral duct	150φ	pc	819	1.000	819	5,315	
M-008	Bendcap	150φ	pc	1,228	1.000	1,228	7,970	
M-009	Assembling equipment for gas cylinder		set	200	1.000	200	1,298	

C. Construction Material

1	as of Estimation	January, 2017
2	Country	ARAB REPUBLIC OF EGYPT
3	Project	THE PROJECT FOR CONSTRUCTION OF THE NEW DIROUT GROUP OF REGULATORS
4	Class	AGRICULTURE
5	Rate	
	1USD=	113.34 JPY
	1LE=	6.49 JPY

NO	Description	Specification	Unit	Average (LE)	Escalation Rate	Unit Price for Estimation		Remarks
						LE	Convert (JPY)	
M-010	Thermostat		pc	200	1.000	200	1,298	
E-001	Heat resistance cable	HP 1.2-4C	m	819	1.000	819	5,315	
E-003	Outlet box	square w/coverplate	pc	150	1.000	150	974	
E-004	Outlet box	3P 15A	pc	150	1.000	150	974	
E-005	Cover plate		pc	85	1.000	85	552	
E-006	Distribution board		pc	4,300	1.000	4,300	27,907	
E-007	Firealarm reception board	5-wire circuit	pc	4,300	1.000	4,300	27,907	
E-008	Smoke detector	Light sensing type	pc	550	1.000	550	3,570	
E-009	Heat detector	Constant temperature type	pc	670	1.000	670	4,348	
E-010	General panel	w/lamp,bell	pc	6,000	1.000	6,000	38,940	
E-011	Mercury lamp material		set	150	1.000	150	974	
E-012	Cable	vv3c-5.5	m	101	1.000	101	655	
E-013	Fluorescent light (Ceiling type)	F61WP	pc	230	1.000	230	1,493	
E-014	Flexible pipe	C25	m	10	1.000	10	65	
E-015	Heat resistance cable	HP 1.2mm-5P	m	30	1.000	30	195	
E-016	Conductor	60sq	m	390	1.000	390	2,531	
E-017	Supporting material		pc	5	1.000	5	32	
E-018	Line-connecting terminal	60sq	pc	50	1.000	50	325	
E-019	Grounding rod	14 x 1500	pc	1,277	1.000	1,277	8,288	
E-020	Grounding copper plate	1.5t x 900	pc	800	1.000	800	5,192	
E-021	Indication plate		pc	230	1.000	230	1,493	
E-022	Earthing terminal board	1P+2	pc	990	1.000	990	6,425	
E-023	Vinyl raceway	VE(28)	m	72	1.000	72	467	
E-024	Vinyl electric wire	5.5sq	m	13	1.000	13	84	
E-025	Vinyl electric wire	50sq	m	13	1.000	13	84	
E-026	Conduit	FEP(50)	m	16	1.000	16	104	
E-027	Conduit	CP(31)	m	40	1.000	40	260	
E-028	Normal connecting bend	CP(31)	m	41	1.000	41	266	
E-029	Flexible metal conduit		m	67	1.000	67	435	
E-030	Box connector		pc	35	1.000	35	227	
E-031	Pipe connector		pc	50	1.000	50	325	
E-032	Pull box	300 x 300 x 200	pc	38	1.000	38	247	
E-033	Handhall cap	Φ600	pc	1,250	1.000	1,250	8,113	

※1 including transportation fee

※2 local price (+10%)

※3 local price (+10%), including transportation fee

APPENDIX E-9

Itemized Construction Cost

Construction Cost divided into each regulator (reuse steel material)

1\$= 113.34 JPY
1LE= 6.49 JPY

Item	Detail	Unit	1. Bahr Yusef					2. Ibrahimia					3. Badraman					4. Diroutiah					5. Sahelyia					6. Abo Gabal					Total				
			Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN	Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN	Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN	Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN	Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN	Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN					
A. Civil Works	A-1. Excavation	m3	5,190	0	1,256	0	8,153	13,840	0	3,349	0	21,734	1,030	0	249	0	1,618	1,140	0	276	0	1,792	2,000	0	495	0	3,213	1,510	0	365	0	2,371	24,710	0	5,992	0	38,881
	A-2. Embankment	m3	47,700	0	15,088	0	97,921	30,300	0	7,664	0	49,742	1,050	0	480	0	3,113	930	0	426	0	2,763	1,390	0	613	0	3,975	2,590	0	1,131	0	7,343	83,960	0	25,402	0	164,857
	A-3. Demolition work	m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	0	65	0	424	127	0	113	0	731	201	0	178	0	1,155
	A-4. Sheet pile bank protection	t	327	389	2,913	3,746	66,757	256	305	2,762	4,092	56,538	12	14	110	0	2,279	11	13	109	0	2,187	38	45	437	844	8,811	78	93	951	764	17,468	722	859	7,282	9,445	154,040
	A-5. Rip rap bank protection	m2	1,202	0	2,900	5,172	23,993	807	0	3,881	9,274	34,464	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,009	0	6,781	14,446	58,457	
	A-6. Canal bed protection	m2	1,821	120	1,664	0	24,427	1,826	119	1,661	0	24,232	75	7	84	0	1,394	120	9	117	0	1,756	0	4	17	0	574	0	5	23	0	757	3,842	265	3,566	0	53,140
	A-7. Concrete work for regulators	m3	6,065	0	22,042	285	143,340	6,022	0	21,859	284	142,149	771	0	3,372	0	21,883	988	0	4,221	0	27,394	752	0	3,265	158	21,348	1,441	0	5,819	199	37,966	16,039	0	60,579	926	394,080
	A-8. Pile foundation work	pc	104	0	9,726	0	63,122	88	0	8,341	0	54,131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192	0	18,067	0	117,253	
	A-9. Accessory works	LS	1	0	12,452	7,303	88,113	1	0	8,648	7,353	63,479	1	0	1,995	4,185	17,131	1	0	2,042	4,585	17,834	1	0	363	98	2,450	1	0	848	195	5,701	1	0	26,347	23,719	194,708
	A-10. Electric works	LS	1	0	1,570	11,678	21,864	1	0	800	0	5,194	1	0	233	0	1,509	1	0	267	0	1,730	1	0	683	0	4,435	1	0	1,343	0	8,717	1	0	4,896	11,678	43,449
	A-11. Gate manufactures and works	LS	1	0	5,752	869,123	906,454	1	0	5,703	869,123	906,133	1	0	1,985	0	12,882	1	0	2,639	0	17,125	1	0	2,180	0	14,147	1	0	3,550	0	23,037	1	0	21,808	1,738,247	1,879,778
	A-12. Expense of the machine and facilities	LS	1	109	11,694	26,350	114,562	1	108	11,597	26,131	113,610	1	17	1,785	4,023	17,490	1	21	2,235	5,036	21,894	1	16	1,742	3,924	17,062	1	29	3,097	6,979	30,344	1	299	32,151	72,444	314,962
A Total				618	87,057	923,657	1,558,706		531	76,266	916,257	1,471,406		38	10,293	8,208	79,299		43	12,331	9,620	94,475		66	9,860	5,024	76,439		127	17,242	8,138	134,435		1,422	213,048	1,870,905	3,414,787
B. Temporary works	B-1. Temporary Coffor Dam	※ t	1,593	947	11,847	73,097	257,349	0	0	11,237	73,731	146,658	0	0	0	0	0	0	0	0	0	0	0	1,313	1,288	9,809	315	187	1,384	1,317	31,503	1,908	1,134	25,780	149,433	445,319	
	B-2. Single Sheet Pile	※ t	259	154	927	1,644	25,125	463	374	2,200	5,249	61,908	107	64	379	838	10,499	0	0	260	838	2,527	0	0	0	0	0	0	0	0	0	829	592	3,767	8,569	100,059	
	B-3. Temporary bridge	※ t	855	0	2,905	64,897	83,752	197	0	2,859	0	18,556	57	0	423	6,466	9,211	28	0	386	0	2,504	8	0	97	506	1,135	4	0	48	253	566	1,149	0	6,719	72,122	115,724
	B-4. Dewatering	m2	9,040	0	6,119	0	39,714	6,920	0	6,772	0	43,949	-	0	328	0	2,125	-	0	328	0	2,125	-	0	328	0	2,125	-	0	328	0	2,125	15,960	0	14,202	0	92,163
	B-5. Temporary road & preparation	LS	1	0	3,784	0	24,561	1	0	3,660	0	23,753	1	0	979	0	6,354	1	0	1,617	0	10,495	1	0	198	0	1,282	1	0	269	0	1,747	1	0	10,508	0	68,192
	B-6. diversion works	LS	1	0	7,920	0	51,400	1	0	7,790	0	50,559	1	0	0	0	0	1	0	0	0	0	1	0	86	0	555	1	0	80	0	517	1	0	15,876	0	103,031
	B-7. Other temporary works	LS	1	0	12,620	6,224	88,125	1	0	5,427	6,172	41,393	1	0	984	950	7,338	1	0	1,155	1,190	8,684	1	0	719	927	5,594	1	0	1,394	1,649	10,697	1	0	22,299	17,112	161,831
	B-8. Transpotation / Shipment	LS	1	971	6,697	41,254	194,807	1	964	6,646	41,043	193,460	1	131	936	3,873	24,750	1	163	1,172	4,849	30,983	1	127	913	3,779	24,145	1	227	1,625	6,720	42,940	1	2,583	17,990	101,519	511,085
B Total				2,073	52,820	187,115	764,834		1,338	46,591	126,196	580,236		194	4,030	12,128	60,277		163	4,918	6,876	57,318		127	3,653	6,500	44,645		414	5,127	9,939	90,095		4,309	117,144	348,755	1,597,448

1. The cost is including In case of reusing steel materials such as sheet pile and H-beam (Bahr-Yusef → Ibrahimia, Badraman → Diroutiah) (showed by ※)
2. A-12, B-8 and a part of B-7 can't be divided (for example: rental fee for construction equipment, temporary yard preparation)
3. The cost is including the indirect cost

Item	Detail	Unit	Quantity	10 ³ USD	10 ³ LE	10 ³ YEN	exchange to 10 ³ YEN
C. Building works	C-1. Control house	LS	1	0	2,670	0	17,328
	C-2. Local contrl house	Bahr Yusef LS	1	0	408	0	2,645
	C-3. Local contrl house	Ibrahimia LS	1	0	408	0	2,645
	C-4. Stop log room	LS	1	0	1,105	0	7,169
D. Integrated Water Management System		LS	1	0	42,698	0	277,112
E. Dispute Board		LS	1	407	0	0	46,129

Construction Cost

A. Civil Works	3,414,787	10 ³ JPY
B. Temporary works	1,597,448	10 ³ JPY
C. Building works	29,786	10 ³ JPY
D. Integrated Water Management System	277,112	10 ³ JPY
E. Dispute Board	46,129	10 ³ JPY
Total	5,365,263	10³JPY

APPENDIX E-10

Evaluation of the quotations of Gate facilities

E-10-1. Evaluation of the quotation of Gate Facilities	E-894
E-10-2. Quotation (A:IHI)	E-898
E-10-3. Quotation (B:MTSC)	E-902
E-10-4. Quotation (C:Houkoku)	E-905
E-10-5. Calculation of Public Construction Cost	E-908
E-10-6. Quotation (Orascom, for small gate)	E-914
E-10-7. Quotation (Energya, for small gate)	E-916

E-10-1. Evaluation of the quotation of Gate Facilities

Large gate facilities

1\$= 113.34 YEN

NO	Description	Specification	Quantity	Unit	Quotation (YEN)			(D) Unit price based on the quotation	(E) Public Construction Cost	Decision (per 1L.S)
					A: IHI	B: MTSC	C: Houkoku			
	(Bahr Yusef + Ibrahimia)									
	Gate leaf		2	L.S	421,313,400	492,459,240	417,000,000	443,590,880	187,030,450	157,655,000
	Gate guide		2	L.S	340,270,600	525,882,979	342,000,000	402,717,860	126,030,110	132,187,000
	Hoisting device		2	L.S	1,081,432,000	—	5,692,000,000	865,145,600	778,196,040	410,835,000
	Remote operation system		2	L.S	277,234,000	—	—	221,787,200	—	110,893,000
	Others		2	L.S		411,024,336	142,000,000			
				total	2,120,250,000	1,429,366,555	6,593,000,000			

*1 The price of Hoisting Device in the "C" is excluded from the comparison, because it is extremely expensive and not realistic.

The unit price of the Hoisting Device is calculated as 0.8 times of the quotation of "A" for the above reason.

*2 Because the price of Remote operation system is not included in the "B" and "C", it is calculated as 0.8 times of the quotation of "A".

Decision of the unit price for Large gate facilities

1. The unit prices of "(D)" calculated based on the quotations (from A to C) are shown in the above table.
2. The public construction costs calculated by Japanese code are shown as "(E)" in the above table.
3. The decision of the unit price is applied as the average of the "(D)" and "(E)".

Small gate facilities

NO	Description	Specification	Quantity	Unit	Quotation (USD)				Decision (per 1L.S)
					A: Energya	B: Orascom			
Badraman									
	Gate Leaf		2	L.S	4,243	66,000			26,400
	Gate Guide			L.S	10,538				
	Hoisting Device			L.S	not included				
Diroutiah									
	Gate Leaf		3	L.S	5,846	99,000			26,400
	Gate Guide			L.S	14,454				
	Hoisting Device			L.S	not included				
Abo Gabal									
	Gate Leaf		4	L.S	9,272	143,000			28,600
	Gate Guide			L.S	21,870				
	Hoisting Device			L.S	not included				
Sahelyia									
	Gate Leaf		2	L.S	5,797	75,500			30,200
	Gate Guide			L.S	13,788				
	Hoisting Device			L.S	not included				

*1 The Hoisting Device is not included in the quotation of "Energya".

*2 The 80% of quotation of "Orascom" is applied for the unit price of the small gate as lump sum.

Stop Logs

NO	Description	Specification	Quantity	Unit	Quotation (USD)				Decision (per 1set)
					A: Energya	B: Orascom			
for Large Gate									
	Type A (6.0m×1.2m)	2 nos per 1 set	2	set	339,095	976,280			135,600
	Type B (6.0m×1.35m)	8 nos per 1 set							
for small Gate									
	Type A (2.0m×0.85m)	2 nos per 1 set	2	set	161,596	491,510			64,600
	Type B (2.0m×0.95m)	7 nos per 1 set							

*1 The unit price of stop log of the quotation of "Orascom" is quite expensive. The price is higher than made in Japan in the basic design.

*2 The 80% of quotation of "Energya" is applied for the unit price of the stop logs.

(for reference) calculation of the lengths of the gate guide

Location	length (m)		
	Upstream	Downstream	Total
Bahr Yusef	58.8	54.8	113.6
Ibrahimia	58.8	54.8	113.6
Badraman	14.4	12.0	26.4
Diroutiah	19.8	16.2	36.0
Abo Gabal	31.2	38.0	69.2
Sahelyia	18.0	23.8	41.8

E-10-2. Quotation (A:IHI)

Sanyu Consultants Inc.
Daiichifuji Bldg. Daikan-cho 35-16
Higash-ku, Nagoya, 461-0002, JAPAN

Attention to: Mr. Yukimasa HASHIGUCHI,
Managing Director, General Manager of International Dept.

Dear Sir,

We, IHI Infrastructure Systems Co., Ltd. (hereinafter referred to as IIS), are herewith pleased to submit our quotation based on your request for proposal received on December 13th 2016 and additional information on February 2nd 2017.

1. Total Project Price:

Item	Contents	Price
1	Expense of domestic fabrication, procurement and transportation to Kobe port for double stage roller gate of BAHR-YUSEF REGULATOR and IBRAHIMIA REGULATOR	¥ 1,843,016,000
2	Expense of domestic procurement and transportation to Kobe port for Remote operation system	¥ 277,234,000
3	Expense of Dispatching Supervisor (1Man/Month)	¥2,200,000

1. Breakdown for Item 1 is attached as Attachment 1 "Breakdown for NEW DIROUT GROUP REGULATORS"
2. Tax in Japan is not included

2. Scope:

- (1) Expenses for domestic fabrication, procurement and transportation to Kobe port for double stage roller gate of BAHR-YUSEF REGULATOR and IBRAHIMIA REGULATOR.
- (2) Expenses for domestic procurement and transportation to Kobe port for Remote operation system for BAHR-YUSEF REGULATOR, IBRAHIMIA REGULATOR and 4 other small regulators.
- (3) Expenses for Dispatching Supervisor for installing and Test operation for double stage roller gate for BAHR-YUSEF REGULATOR and IBRAHIMIA REGULATOR.

3. Conditions:

- (1) Domestic fabrication, procurement and transportation to Kobe port for double stage roller gate.
 - Main steel material is carbon steel, paint spec is epoxy resin + fluorine resin. (Based on Dahab Regulator and Sakoula Regulator)
 - Hoist includes Hydraulic Cylinder, Hoist Frame and Hydraulic Piping.
 - Additional information of increase of 3.1 ton for Hydraulic Piping weight is applied to the expense.

IHI Infrastructure Systems Co., Ltd.

AZUMA BUILDING 17-12, SHIBAURA 3-CHOME, MINATO-KU, TOKYO 108-0023 JAPAN
Tel: +81-3-3769-8602 Fax: +81-3-3769-8607

(Increase of JPY 10,450,000)

- In accordance with the received specification, power supply facilities is not clarified, power supply facilities are not included. Control panel facilities at secondary side are included.
- Delivery term: Incoterms 2000, FOB Kobe Port.

(2) Domestic procurement and transportation to Kobe port for Remote operation system

- In accordance with the received specification, Remote operation system has modified from the general specification to advanced specification.
- Remote operation system includes only system offered in the specification. Wiring facilities is not included.
- Remote operation system operated not only BAHR-YUSEF REGULATOR and IBRAHIMIA REGULATOR but 4 other small regulators.
- Delivery term: Incoterms 2000, FOB Kobe Port.

(3) Dispatching Supervisor for installing and Test operating for double stage roller gate

- 6 working day per week. Friday is holiday in principle.
- 10 working hours per day. After 48 hours per month, over time expense ¥10,800/ H is required.
- Dispatching period of Supervisor is expected for 16 months for installment, 4.5 months for test operation. It shall be modified after the construction period is fixed.
- Manpower, crane and equipment necessary for site work are not included in the above price.
- Travel expense from Japan to site that are in Egypt (flight tickets, Visa and Insurance etc.) and expenditure in Egypt (Travel expense, accommodation, office equipment, communication cost etc.) are not included in the above price.
- Any and all kind of duties, levies and taxes are not included in the above price.

We trust the above will meet your requirements and satisfaction, and is of your interest.

However, should you have any inquiries for the above, please feel free to contact the undersigned Mr. Akiho ANDO at +81-3-3769-8602 (tel.).

Very truly yours,



for
Akiho ANDO
General Manager
Overseas Sales Department,
Sales Headquarters

IHI Infrastructure Systems Co., Ltd.

AZUMA BUILDING 17-12, SHIBAURA 3-CHOME, MINATO-KU, TOKYO 108-0023 JAPAN
Tel: +81-3-3769-8602 Fax: +81-3-3769-8607

Attachment1 "Breakdown for NEW DIROUT GROUP REGULATORS"

BAHR-YUSEF REGULATOR

Item	Qty	Weight (t)	Price (Yen)
Gate leaf	1 set	140.72	210,656,700
Gate guide	1 set	132.76	170,135,300
Hoist	1 set	200.62	540,716,000
Remote operation system	1 set	1.00	138,617,000
Total		475.10	1,060,125,000

IBRAHIMIA REGULATOR

Item	Qty	Weight (t)	Price (Yen)
Gate leaf	1 set	140.72	210,656,700
Gate guide	1 set	132.76	170,135,300
Hoist	1 set	200.62	540,716,000
Remote operation system	1 set	1.00	138,617,000
Total		475.10	1,060,125,000

E-10-3. Quotation (B:MTSC)

To: **SANYU CONSULTANTS INC**
Overseas Business Division, Technology Department 4, Engineering Section
4th Floor, Daiichi Fuji Building, 35-16 Higashi ku, Nagoya shi 〒461-0002, Japan
Tel: +81-52-933-7803 Fax: +81-52-933-7851

Attn: Mr. WAKATSUKI MOTO E-Mail: moto-wakatsuki@sanyu-con.co.jp

Date of Issue: January 24, 2017
Our Ref. No.: MTS-SAN-EDC-R0

Subject: Project for Re-Construction of Canals at Drayout city - Egypt
Supply of the Fabricated Steel Roller Gates (Two Stage Type)

Dear Sir,

Thank you very much for your request to submit a quotation for Supply of the Fabricated Steel Roller Gates for Re-Construction Project of Canals at Drayout city - Egypt.

We are pleased to submit our quotation as follows:

1. Volume:

341.4 tons of Steel Structure of Roller Gates for Bahr-Yusef Canal and Ibrahimia Canal

2. Price:

341.4 tons x 36,940.00 US\$/ton = 12,611,316.00 US\$

(US Dollar Twelve million six hundred eleven thousand three hundred and sixteen only)

The above Price excludes any Value Added Tax.

3. Our Scope of Work:

- (1) Full size drawing.
- (2) Procurement all of steel material.
- (3) Shop Fabrication.
- (4) Inspection.
- (5) Blasting and Coating.
- (6) Delivery FOB at Haiphong Port, Vietnam.

4. Applicable Documents:

RFQ of Sanyu Consultants INC dated Dec. 19, 2016 and it's Reference Data.

5. **Commercial Conditions:**

- (1) The above Price excludes any Value Added Tax (VAT) arisen in Vietnam.
- (2) The above Price excludes any Price for Produced Parts and Accompanying Equipment.
- (3) The above Price excludes any Price for all of Gaskets Rubber and Bolts.
- (4) The above price excludes any Costs for Third Party Inspection.
- (5) The above price excludes any Costs for all of Welding, Cleaning and Coating Works at Site.
- (6) Proposed payment term is:

Advance Payment:	15% of Contract Price.
Progress Payment:	
- Submit the Purchase Order for Steel Material:	40% of Contract Price.
- Completed of Inspection :	30% of Contract Price.
- Delivery at FOT MTSC's Shop:	15% of Contract Price.
- (7) This quotation is valid until End of April 2017.

6. **Technical Conditions:**

- (1) Steel Material supplied by MTSC is from Taiwan and Vietnam. And the equivalent steel material in accordance with the technical specification or requirement is used.
- (2) All of Gates for Bahr-Yusef Canal and Ibrahimia Canal shall be divided to 2 blocks because the maximum size for transportation is approximately 2.3m. The site joint method of blocks can chose the site welding.
- (3) Welders qualified in accordance with AWS D1.1/A1.5 in previous project are to be engaged in this project.
- (4) Welding work is to be executed in accordance with AWS D1.1/A1.5.
- (5) Non Destructive Testing operators certified in the ASNT Level II is to be engaged for the in-house testing.
- (6) Delivery Condition is FOB at Haiphong Port, Vietnam .

Other terms and Conditions not specified in this quotation shall be discussed and mutually agreed later.

We trust that our above prices are acceptable by you and looking forward to your favorable reply.

Faithfully Yours,

Tsunomu Yamashita
Director General



E-10-4. Quotation (C:Houkoku)

御 見 積 書

見積番号NO.
平成 29 年 2 月 20 日

株式会社三祐コンサルタンツ 殿

下記の通り見積致しましたから
御下命の程御願ひ申し上げます。

豊国工業株式会社

金 額 ¥ 別紙参照願ひます -

品 名 2段式ローラゲートおよび電気・制御設備等一式

東京都中央区新川一丁目17番25号
豊国工業株式会社 東京支店
支店長 金 谷 将 明

見積有効期間：平成29年9月30日
納 期：ご協議
受 渡 場 所：広島港車上渡し
掘 付 工 事：掘付指導
電 気 工 事：含みません
支 払 条 件：現金決済（日本円100%による決済）
本見積には、消費税は含まれておりません。

承認 金谷 営業 新畑 積算 新畑

種別 ・ 品名	規 格・寸 法	単 位	数 量	単 価	金 額
2段式ローラゲートおよび電気・制御設備		式	1		
※ 別 紙 参 照 願 ひ ます					

Bahr-Yusef&Ibrahimia Regulator概算工事費

工事名	Bahr-Yusef Regulator	Ibrahimia Regulator	
ゲート形式	鋼製2段式ローラーゲート	鋼製2段式ローラーゲート	
開閉装置	油圧シリンダ式	油圧シリンダ式	
純径間	6.00	6.00	
扉高	6.55	6.55	
(上段扉高)	3.15	3.15	
(下段扉高)	3.40	3.40	
門数	4	4	
水密方式	前面3方ゴム水密	前面3方ゴム水密	
操作方式	機側及び遠隔操作	機側及び遠隔操作	
概算金額 (製作、輸送)			
製作費	扉体	¥417,000,000	
	戸当り	¥342,000,000	
	開閉装置	¥5,692,000,000	
	遠方監視室内機器	-	見積辞退
	電源設備 (水門側機側操作盤のみ)	¥113,000,000	
	製作費計	¥6,564,000,000	
輸送費	最寄り港車上渡し(広島港)	¥29,000,000	
	輸送費計	¥29,000,000	
<ul style="list-style-type: none"> ・契約に使用する言語は日本語、通貨は日本円とします。 ・検収日は製品引渡時とします。 ・製品の受け渡しは広島港で、日本国内輸送標準梱包による車上渡しとします。 			
工事価格	8門分	¥6,593,000,000	
概算金額 (据付指導)			
据付費	水門据付に伴う技術指導	¥150,000	1日当り
	<ul style="list-style-type: none"> ・据付指導は適切な指示、指導及び助言を行うものであり、据付品質の保証を行うものではありません。 ・契約に使用する言語は日本語、通貨は日本円とします。 ・検収日は毎月末とし、毎月の稼働工数による出来高請求と致します。 ・勤務時間は8:00～17:00とし残業をご指示の場合は、弊社規定の割増賃金をご請求致します。 ・派遣期間中の休業日(休日)は海外出張期間中のため手当を支給する必要があることより費用をご請求致します。 ・現地事務所、事務機器、通信・光熱費等をご提供下さるものと致します。 ・現地での移動手段をご提供下さるものと致します。 ・現地での通訳を施工箇所に配置いただけるものと致します。 ・現地での書類作成は日本語と致します。 ・現地技術指導に必要な工具、安全防具、手工具をご提供下さるものと致します。 ・派遣に伴う渡航費用(派遣・帰任・特別休暇等)をご提供下さるものと致します。 ・派遣に伴う国内旅費(旅費・宿泊・日当)はご請求させていただきます。 ・派遣に伴う査証、現地労働許可、住居許可の取得は行って頂けるものとします ・派遣に伴う宿泊費はご提供下さるものと致します。 ・派遣に伴う現地租税公課はご負担頂けるものとします ・就業条件は別途協議させていただきます 		
工事価格	1日・人	¥150,000	

E-10-5. Calculation of Public Construction Cost

工場製作費								
【上段扉】	Upper gate leaf							
(主要部材)	溝形鋼	SS400	C150×75×9/12.5	kg	232.9	84	19,563	
main items	溶接構造用鋼板	SM400A	PL9	kg	177.7	131	23,278	
	溶接構造用鋼板	SM400A	PL12	kg	1292.6	131	169,330	
	溶接構造用鋼板	SM400A	PL16	kg	463.7	131	60,744	
	溶接構造用鋼板	SM400A	PL19	kg	1109.4	131	145,331	
	ステンレス鋼板	SUS304	PL9	kg	1631.3	360	587,268	
	ステンレス棒鋼	SUS304	φ125	kg	336.1	669	224,850	
	ステンレス鋳鋼	SCS3	φ450	kg	495.2	2,985	1,478,172	
			小計		5738.9		2,708,536	
(副部材)	sub items cost		主要部材費	%	15.5	2,708,536	419,823	
(部品費)	accessories cost		主要部材費	%	22.0	2,708,536	595,878	
(製作補助材料費)	material cost for main and sub items		主要部材+副部材費	%	6.5	3,128,359	203,343	
労務費	labor cost			人	125	22,800	2,850,000	
塗装費	painting cost		酸洗い、pickling	m ²	49.3	3,500	172,410	
			エポキシ樹脂系 epoxy	m ²	67.0	5,140	344,534	
			計				516,944	
直接製作費計	manufacturing cost		上段扉 Upper gate leaf		per gate	1門計	7,295,000	
					total (8 gates)	8門計	58,360,000	
【下段扉】	Lower gate leaf							
(主要部材)	溝形鋼	SS400	C200×80×7.5/11	kg	239.9	84	20,151	
main items	溶接構造用鋼板	SM400A	PL12	kg	5020.9	131	657,737	
	溶接構造用鋼板	SM400A	PL16	kg	1202.2	131	157,488	
	溶接構造用鋼板	SM400A	PL19	kg	141.9	131	18,588	
	ステンレス棒鋼	SUS304	φ180	kg	745.5	669	498,739	
	ステンレス鋳鋼	SCS3	φ700	kg	1824.0	2,985	5,444,640	
			小計		9174.4		6,797,343	
(副部材)	sub items cost		主要部材費	%	15.5	6,797,343	1,053,588	
(部品費)	accessories cost		主要部材費	%	22.0	6,797,343	1,495,415	
(製作補助材料費)	material cost for main and sub items		主要部材+副部材費	%	6.5	7,850,931	510,311	
労務費	labor cost			人	124	22,800	2,827,200	
塗装費	painting cost		酸洗い、pickling	m ²	6.5	3,500	22,610	
			エポキシ樹脂系 epoxy	m ²	145.3	5,140	746,944	
			計				769,554	
直接製作費計	manufacturing cost		下段扉 Lower gate leaf		per gate	1門計	13,453,000	
					total (8 gates)	8門計	107,624,000	

【戸当金物】	Gate guide							
(主要部材)	H形鋼	SS400	H194×150×6/9	kg	311.5	84	26,166	
main items	溶接構造用鋼板	SM400A	PL12	kg	2236.4	131	292,968	
	溶接構造用鋼板	SM400A	PL16	kg	3759.5	131	492,494	
	溶接構造用鋼板	SM400A	PL19	kg	741.4	131	97,123	
	ステンレス鋼板	SUS304	PL9	kg	1468.4	360	528,624	
	ステンレス鋼板	SUS304	PL10	kg	2715.5	562	1,526,111	
	ステンレス鋼板	SUS304N2	PL10	kg	244.3	741	181,026	
	ステンレス鋼板	SUS304N2	PL12	kg	717.9	741	531,963	
	ステンレス鋼板	SUS304N2	PL20	kg	1563.8	741	1,158,775	
			小計		13758.7		4,835,250	
(副部材)	sub items cost		主要部材費	%	29.0	4,835,250	1,402,223	
(部品費)	accessories cost		主要部材費	%	2.5	4,835,250	120,881	
(製作補助材料費)	material cost for main and sub items		主要部材 + 副部材費	%	6.5	6,237,473	405,436	
労務費	labor cost			人	290	22,800	6,612,000	
塗装費	painting cost		プライマー primer	m ²	177.1	408	72,273	
			酸洗い pickling	m ²	152.3	3,500	533,085	
			計				605,358	
直接製作費計	manufacturing cost		戸当金物 Gate guide		per gate	1門計	13,981,000	
					total (8 gates)	8門計	111,848,000	
【開閉装置】	Hoist							
(主要部材)	鋼板	SS400	PL6	kg	118.2	129	15,247	
main items	山形鋼	SS400	L50×50×6	kg	157.2	83	13,047	
	ステンレス鋼板	SUS304	PL10	kg	15.9	562	8,935	
	ステンレス鋼板	SUS304	PL16	kg	16.8	573	9,626	
	ステンレス棒鋼	SUS304	φ 350	kg	389.2	741	288,397	
	ステンレス鋼管	SUS304TP	◎150A(Sch20S)	kg	153.6	520	79,872	
	機械構造用炭素鋼	S25C-N	t220	kg	2348.8	175	411,040	
			小計		3199.7		826,164	
(部品費)	accessories cost		主要部材費	%	38.0	826,164	313,942	
(製作補助材料費)	material cost for main and sub items		主要部材	%	6.5	826,164	53,701	
(機械単体品)	油圧シリンダー hydraulic cylinder	φ7500		基	2	11,000,000	22,000,000	
mechanical products	油圧シリンダー hydraulic cylinder	φ7300		基	2	7,000,000	14,000,000	
	油圧ユニット hydraulic unit			基	1	32,000,000	32,000,000	
	レスキューバルブ rescue valve	MIV611-2R-25FS		基	8	462,000	3,696,000	
	緊急油圧装置 emergency hydraulic device			基	1	4,000,000	4,000,000	
	開度計 opening indicator	メッセンジャーワイヤー式		基	4	1,200,000	4,800,000	
	作動油 oil			ℓ	1700	200	340,000	
			小計				80,836,000	
労務費	labor cost		鋼製付属: D epoxy + polyurethane	人	25	22,800	570,000	
塗装費	pairting cost		エポキシ樹脂系 + ポリウレタン樹脂系塗装	m ²	14.8	4,571	67,833	
			酸洗い pickling	m ²	10.4	3,500	36,470	

E-10-6. Quotation (Orascom, for small gate)

		Small regulators				Remarks
Name		Badraman	Diroutiah	AboGabal	Sahelyia	
Gate type		Slide gate	Slide gate	Slide gate	Slide gate	
Clear span		2.00m	2.00m	2.00m	2.00m	
Total height		2.65m	2.35m	2.95m	3.55m	
Quantity		2	3	4	2	
Lifting height		3.60m	3.30m	3.90m	4.50m	
Operating speed		0.3m/min	0.3m/min	0.3m/min	0.3m/min	
Hoist type		Electric Actuator	Electric Actuator	Electric Actuator	Electric Actuator	
Seal type		3-side rubber seal	3-side rubber seal	3-side rubber seal	3-side rubber seal	
Material	Main structure	Steel EN 10025 S235 JR	Steel EN 10025 S235 JR	Steel EN 10025 S235 JR	Steel EN 10025 S235 JR	
	Gate guide	SUS304	SUS304	SUS304	SUS304	SS 304
	Bolt& nut	SUS304	SUS304	SUS304	SUS304	SS 304
Estimated Price (\$ / Ea.)		\$33,000	\$33,000	\$35,750	\$37,750	

		Stop logs for small regulators		Stop logs for large regulators		Remarks
		Type A	Type B	Type A	Type B	
Clear span		2.00m	2.00m	6.00m	6.00m	
Unit height		0.85m	0.95m	1.20m	1.35m	
Quantity		2	7	4	16	
Material	Main structure	Steel EN 10025 S235 JR	Steel EN 10025 S235 JR	Steel EN 10025 S235 JR	Steel EN 10025 S235 JR	
	Gate guide	SUS304	SUS304	SUS304	SUS304	SS 304
	Bolt& nut	SUS304	SUS304	SUS304	SUS304	SS 304
Stop Logs Set Price (\$ / Ea.)		\$1,700	\$1,800	\$4,350	\$4,550	
Stop Logs Guide Price (\$ / mt.)		\$2,650	\$2,650	\$3,900	\$3,900	

E-10-7. Quotation (Energy, for small gate)

SANYU consultants INC.

DAIRUT Barrage

Supply & Fabrication of Head Regulator & Stop logs Gates

Date: 10th November, 2016

Factory

Industrial Zone, 6A East, 10th of Ramadan, Egypt
Tel: +20 15 412 249 Fax: +20 15 412 389



Ref. No. : ESS-076-11-16-PL-CD

Kind Attn : **MR. Kazuma AKIYOSHI**

E-mail : kaz-akiyoshi@sanyu-con.co.jp

Dear Sir,

Thank you for giving us the opportunity to submit an offer for the above mentioned subject.

We have a great pleasure to submit herewith our Techno-commercial offer in accordance with the received enquiry documents.

We hope this offer meets your requirements & satisfaction, for any further information and/or clarifications, please do not hesitate to contact the undersigned.

energya Steel Fabrication Co. is very keen to secure the order for this project and look forward to start business with your esteemed organization.

Best regards.

Factory

Industrial Zone, 6A East, 10th of Ramadan, Egypt
Tel: +20 15 412 249 Fax: +20 15 412 389



Table of Content

- 1- Technical Conditions
- 2- Commercial Conditions
- 3- BOQ



Factory

Industrial Zone, 6A East, 10th of Ramadan, Egypt
Tel: +20 15 412 249 Fax: +20 15 412 389



1. Technical Conditions

1.1. General

- This offer is based on and limited to the followings:
 - ⤴ Received documents.
 - ⤴ All what is mentioned in our offer.
 - ⤴ Our previous experience for similar works.

Any changes to these may/shall have direct impact on the quoted prices and delivery time.

1.2. energyya Scope of Work

1.2.1 Engineering

- ⤴ Preparation of work shop drawings based on your complete detailed drawings.
- ⤴ Issue of MTO (Material Take Off).

1.2.2 Material

- ⤴ Supply of Steel material Grade S235JR for Plates of Gates.
- ⤴ Supply of Stainless material SS304 for Plates of Gates.
- ⤴ Supply of fabrication consumables material Electrodes according to AWS/EN/DIN.
- ⤴ All necessary packing material to be suitable for land transportation.

1.2.3 Fabrication & Inspection

- ⤴ Fabrication of the required items as per your specifications.
- ⤴ Inspection of the fabricated items in our factory as per Specification & approved ITP as follows:
 - 100% Visual and Dimension check.
 - Ultrasonic Inspection.
 - Dye penetration test.
 - Trial Assembly.

1.2.4 Surface Treatment & Painting

⤴ Carbon steel surfaces

- Sand blasting SA2 1/2
- One coat two component zinc rich primer (Hempadur Zink 17360 or equivalent) Dry film thickness 30– 40 μm.
- Three coats Two component, polyamide cured coal tar epoxy paint (Hempadur 15130 or equivalent) Min. dry film thickness 160 μm for each coat.

⤴ Stainless Steel plates : Pickling & passivation

1.2.5 Packing

- ⤴ Marking, normal packing and loading on trucks.

Factory

Industrial Zone, 6A East, 10th of Ramadan, Egypt
Tel: +20 15 412 249 Fax: +20 15 412 389



1.2.6 Shipping Mode

- ▲ Ex-Works, Energya Workshops at 10th of Ramadan City.

1.3. Excluding items from *energya* Scope of work

- Any design works.
- Any Supply of material than mentioned above.
- Any supply of for Non-Ferrous material.
- Any Supply of Bolts/ Nuts (Stainless Steel or Carbon Steel).
- Any supply of mechanical and electrical parts.
- Any heat treatment.
- Any cost of third party inspection.
- Any erection or site works.
- Radiographic test.
- Supply of any Expansion Bolts, HILTI Bolts or Chemical anchors.
- Unloading at Site.
- Any Delivery to site.

1.4. SANYU scope of work

- Providing *energya* with the final detailed drawings in one soft copy and one hard copy.

2. Commercial Conditions

2.1. General

- Payment will be based on actual weight of shipped items.

2.2. Prices

- *energya* prices for supply and fabrication will be as per attached BOQ.

2.3. Taxes & Duties

- Our price does not include sales tax (13%).

2.4. Terms of Payment

- 50% down Payment.
- 50% against progressive dispatch

2.5. Delivery Schedule

- Will be mutually agreed to meet your requirements.

Factory

Industrial Zone, 6A East, 10th of Ramadan, Egypt
Tel: +20 15 412 249 Fax: +20 15 412 389



2.6. Coming into force for the contract

- The contract shall come into force after fulfilling the followings:
 - ▲ Contract or official purchase order award and sign.
 - ▲ Down payment release.
 - ▲ Receipt of final approved drawings.

Which is later

2.7. Validity

- Our offer will remain valid for two weeks from our offer date and could be extended after getting **energya's** official written approval.



Factory

Industrial Zone, 6A East, 10th of Ramadan, Egypt
Tel: +20 15 412 249 Fax: +20 15 412 389





Client : SANYU consultants INC.
Project : DAIRUT Barrage

Ref. no. : ESS-076-11-16-PL-CD
Date : 10 November, 2016

		Small regulators				Remarks
Name		Badraman	Diroutiah	AboGabal	Sahelyia	
Gate type		Slide gate	Slide gate	Slide gate	Slide gate	
Clear span		2.00m	2.00m	2.00m	2.00m	
Total height		2.65m	2.35m	2.95m	3.55m	
Quantity		2	3	4	2	
Lifting height		3.60m	3.30m	3.90m	4.50m	
Operating speed		0.3m/min	0.3m/min	0.3m/min	0.3m/min	
Hoist type		Rack gear	Rack gear	Rack gear	Rack gear	
Motor output		0.65kw	0.65kw	1.00kw	1.40kw	
Seal type		3-side rubber seal	3-side rubber seal	3-side rubber seal	3-side rubber seal	
Material	Main structure	SS400	SS400	SS400	SS400	JIS G3101
	Gate guide	SUS304	SUS304	SUS304	SUS304	JIS G4304
	Bolt& nut	SUS304	SUS304	SUS304	SUS304	
Estimated weight	Gate leaf	1694 kg	2320.5 kg	3723.6 kg	2342.8 kg	
	Gate guide	1376 kg	1890.6 kg	2978.8 kg	1784.8 kg	
	Hoist	3388.6 kg	5034.3 kg	8400.4 kg	5257.2 kg	
Total		6,459	9,245	15,103	9,385	

Fabrication Weight per one gate	SUS304	702.50	642.40	729.00	919.20	
	SS400	848.50	779.40	927.20	1,159.40	
Total Fabrication Weight	SUS304	1,405.00	1,927.20	2,916.00	1,838.40	8,086.60
	SS400	1,697.00	2,338.20	3,708.80	2,318.80	10,062.80
	Total	3,102.00	4,265.40	6,624.80	4,157.20	18,149.40
Unit Price per KG	SUS304	7.50	7.50	7.50	7.50	
	SS400	2.50	2.50	2.50	2.50	
Total Price (USD)	SUS304	10,538	14,454	21,870	13,788	60,650
	SS400	4,243	5,846	9,272	5,797	25,157
	Total	14,780	20,300	31,142	19,585	85,806.50

		Stop logs for small regulators		Stop logs for large regulators		Remarks
		Type A	Type B	Type A	Type B	
Clear span		2.00m	2.00m	6.00m	6.00m	
Unit height		0.85m	0.95m	1.20m	1.35m	
Quantity		2	7	4	16	
Material	Main structure	SS400	SS400	SS400	SS400	JIS G3101
	Gate guide	SUS304	SUS304	SUS304	SUS304	JIS G4304
	Bolt& nut	SUS304	SUS304	SUS304	SUS304	
Estimated weight	Gate leaf	582.8 kg	2177.7 kg	8,298	35,434	
	Gate guide	9384.4 kg		31522.4 kg		
	Lifting beam	252.5 kg		911.7 kg		
	Total	12,397		76,166		

Fabrication Weight per one set (Gate Leaf A & Gate Leaf B)	SUS304	54	56.3	149.60	155.00	
	SS400	226	243.2	1891.30	2025.00	
Total Fabrication Weight (Gate leaf A & Gate leaf B)	SUS304	108	394	598	2,480	
Fabrication Weight per one set (Gate Guide)	SS400	452	1,702	7,565	32,400	
	SUS304	3,029.00			3376.00	
Total Fabrication Weight (Gate Guide)	SS400	377.40			555.30	
	SUS304	9,087.00			27008.00	
Total Fabrication Weight (Lifting Beam)	SS400	1,132.20			4442.40	
	SUS304	12.40			49.60	
Total Fabrication Weight	SS400	226.90			822.20	
	SUS304	9601.90			30136.00	39,738
	SS400	3,513.50			45229.80	48,743
	Total	13,115.40			75,365.80	88,481
Unit Price per KG	SUS304	7.50			7.50	
	SS400	2.50			2.50	
Total Price (USD)	SUS304		72,014		226,020	298,034
	SS400		8,784		113,075	121,858
	Total		80,798.0		339,094.5	419,893

APPENDIX E-11

Other quotations

E-11-1. Steel Sheet Pile	E-925
E-11-2. Cast-in-place RC Pile	E-946
E-11-3. Barge	E-974
E-11-4. Import clearance and Transportation charges	E-978
E-11-5. Well Point	E-981

E-11-1. Steel Sheet Pile

Calculation of sheet pile unit price

1USD= 113.34 YEN

1LE= 6.49 YEN

1EUR= 121.26 YEN

1. Arcelor Mittal

Type	Grade	weight (t)	Amount (EUR)
PU	S355GP	1,298.95	2,405,000
	S430GP	1,486.80	

- The unit price is same in the "PU" type
- S355GP→S390GP→S430GP: 2 rank up, it means 20 EUR/t×2
- Insurance for ocean transportation and unloading cost: 15 EUR/t

When the unit price per ton of PU (S355GP) type is "A",

$$1,298.95 \times A + 1,486.80 \times (A + 20 \text{ EUR/t} \times 2) = 2,405,000$$

$$A = (2,405,000 - 40 \times 1,486.8) / (1,298.95 + 1,486.8)$$

$$= 841.97 \text{ EUR (=S355GP)}$$

$$1\text{EUR} = 121.26 / 6.49$$

$$= 18.68 \text{ LE}$$

$$841.97 + 15 = 857.0 \text{ EUR}$$

$$= 916.9 \text{ US\$ (=S355GP)}$$

2. Arabco

Arabco (S270GP→S355GP) "TKL" type

$$750 + 25 + 15$$

$$= 790.00 \text{ EUR}$$

$$= 845.2 \text{ US\$}$$

3. Calculation of Unit Price

Applied the selection method: Average of the quotations

$$916.9 + 845.2 = \underline{\underline{881.0}} \text{ US\$}$$

01/12/2016

To : Sanyu Consultants Inc.

Mr. : Masanobu Kadowaki - Technical Advisor.

تخية طيبة وبعد ،،،

مرفق طيه عرض اسعار لتوريد ستائر معدنية وقطاعات و مواسير حديدية طبقا للمواصفات والكميات المطلوبة وبيانها كالتالى :-

Material List

Item	Qty /Pcs	Section	Quantity	Unit	Unit price	Total price
Sheet piles for Permanent Works						
1	626	Sheet pile TKL 603 equivalent to PU12 (see attached Data sheet) steel grade S270GP, l = 6 to 10 m, g = 64,2 kg/m, single pile, Material test certificate MTC 3.1 acc. to EN 10204, steel grade and tolerances acc. to EN 10248	333,07	T	750 EUR/T	249802.5 C
2	332	Sheet pile TKL 605A equivalent to PU16 (see attached Data sheet) steel grade S270GP, l = 10 to 14 m, g = 76,5 kg/m, single pile, Material test certificate MTC 3.1 acc. to EN 10204, steel grade and tolerances acc. to EN 10248	271,73	T	750 EUR/T	203797.5 €
3	648	Sheet pile TKL 806 equivalent to PU 28 (see attached Data sheet) steel grade S270GP, l = 10 to 12 m, g = 93,9 kg/m, single pile, Material test certificate MTC 3.1 acc. to EN 10204, steel grade and tolerances acc. to EN 10248	629,86	T	750 EUR/T	472395 €
Sheet piles for Temporary works						

SCHNEIDER
System Integrator

KROHNE

MOGOTECH
Soft Starter

SIEMENS

WIKAL

HYDRAFLUX

Main Office & Sales Dep : 5 El Gomal St. - El Korba - Heliopolis - Cairo - Egypt
Phone : +202 2415 5388 - +202 2415 5386 - +202 2415 4922 - +202 2415 4923
Fax : +202 2415 5001 P.O.Box : 188 Heliopolis
Stores : 10 th 6 October St. - Shoupra El Khema
Phone : +202 4222 8351 Cairo

الإدارة والمبيعات : ٥ شارع الصومال - الكوربة - مصر الجديدة - القاهرة - مصر
تليفون : ٢٠٢ ٢٤١٥٥٣٨٨ - ٢٠٢ ٢٤١٥٥٣٨٦ - ٢٠٢ ٢٤١٥٤٩٢٢ - ٢٠٢ ٢٤١٥٤٩٢٣
فاكس : ٢٠٢ ٢٤١٥٥٠٠١ - ص.ب. ١٨٨ - هليوبليس
المخازن : ١٠ شارع ٦ أكتوبر - شبرا الخيمة
تليفون : ٢٠٢ ٤٢٢٢٢٨٣٥٤ - القاهرة

Item	Qty /Pcs	Description	Quantity	Unit	Unit price	Total price
4	1400	Sheet pile TKL 606 equivalent to GU30N (see attached Data sheet) steel grade S270GP, l = 10 m, g = 93,6 kg/m, single pile, Material test certificate MTC 3.1 acc. to EN 10204, steel grade and tolerances acc. to EN 10248	1310,41	T	750 EUR/T	982807.5 €
		Surcharge for steel grade S355	1	T	25 EUR/T	
					Sum sheet piles	1908802.5
		Steel pipes				
5	108	spirally welded steel pipe SSAW, tubular steel pipe, steel grade S355JR, EN10219, MTC 3.1, Diameter 600 mm, wall thickness 9 mm, in length of 14 m, g = 131,16 kg/m	198,30	T	825 USD/T	163597.5 \$
6	84	spirally welded steel pipe SSAW, tubular steel pipe, steel grade S355JR, EN10219, MTC 3.1, Diameter 650 mm, wall thickness 9 mm, in length of 8,5 m, g = 142,25 kg/m	101,56	T	825 USD/T	83787 \$
7	96	spirally welded steel pipe SSAW, tubular steel pipe, steel grade S355JR, EN10219, MTC 3.1, Diameter 800 mm, wall thickness 9 mm, in length of 10,0 m, g = 175,53 kg/m	168,51	T	825 USD/T	139020.75 \$
8	66	spirally welded steel pipe SSAW, tubular steel pipe, steel grade S355JR, EN10219, MTC 3.1, Diameter 800 mm, wall thickness 12 mm, in length of 8,0 m, g = 235,16 kg/m	123,11	T	825 USD/T	101565.75 \$
					Sum piles	487972 \$
		Steel H-beams				
9	180	Steel beams 200x200x8x12 in steel grade S355 in length of 10 m	89,820	T	675 EUR/T	60628.5 €
10	144	Steel beams 250x250x9x14 in steel grade S355 in length of 6 m	63,07	T	675 EUR/T	42572.25 €
11	442	Steel beams 300x300x10x15 in steel grade S355 in length of 7 to 12 m	414,22	T	675 EUR/T	279598.5 €
12	240	Steel beams 350x350x12x19 in steel grade S355 in length of 10 and 12 m	356,40	T	675 EUR/T	240570 €

SCHNEIDER
System Integrator

KRENN
Soft Starter

SIEMENS

SIEMENS

WIKAL

WIKAL

Item	Qty /Pcs	Section	Quantity	Unit	Unit price	Total price
13	138	Steel beams Steel beams 400x400x13x21 in steel grade S355 in length of 6 and 10 m	158,24		675 EUR/T	1068.12 €
					Sum H-Beams	730181.25 €

DELIVERY TIME:

PRODUCTION OF SHEET PILES TO BE AGREED ON, REGULARLY ROLLING 6 TO 7 WEEKS AFTER ORDER. SHIPMENT ABOUT 8 WEEKS EX WORKS SUBJECT TO AVAILABLE VESSEL

PIPES AND BEAMS READY FOR SHIPMENT WITHIN 60 DAYS AFTER ORDER AND L/C OPENING. ESTIMATED TRANSITION TIME DEPENDING ON AVAILABLE VESSEL SHIPMENT TIME, PROBABLY 45 DAYS

TERMS OF DELIVERY:

CFR FREE OUT ALEXANDRIA, EGYPT, TAXES AND DUTIES UNPAID, ALL GOODS NOT PROTECTED AGAINST RUST, NOT BUNDLED, FOR CASE OF UNDIVIDED ORDER, ACCORDING TO INCOTERMS 2010, SUBJECT TO CHANGE

PAYMENT CONDITIONS

PAYMENT ON BASIS OF L/C, INVOICING ON THEORETICAL WEIGHT.

VALIDITY OF OFFER

7 Days

نأمل ان يحوز عرض اسعارنا القبول لدى سيادتكم..

وتفضلوا بقبول وافر الاحترام والتقدير..

BAMACO EYE SHINA GRUNDFOS NISBAU EMO SHURJOINT

مدير عام الشركة
المهندس /

SCHNEIDER
System Integrator

KROHNE

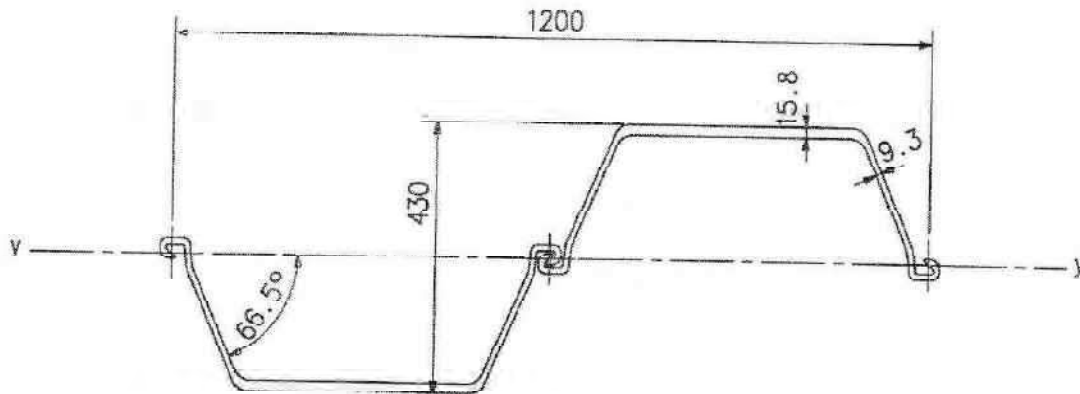
MOGOTECH
Soft Starter

SIEMENS

WIKAI

ANCUTPROX

Steel Sheet Pile TKL 606



	cross section Area	weight	second moment of inertia	section modulus	circumference	Coating area
	(cm ²)	(kg/m)	(cm ⁴)	(cm ³)	(cm)	m ² /m
Single Pile	119,60	93,90	8455	517	201,00	1,89
Double Pile	239,20	187,80	64542	3002	377,00	2,66
Triple Pile	358,80	281,70	88220	3370	552,00	5,40
per m wall	199,30	156,50	53785	2502	292,00	2,92

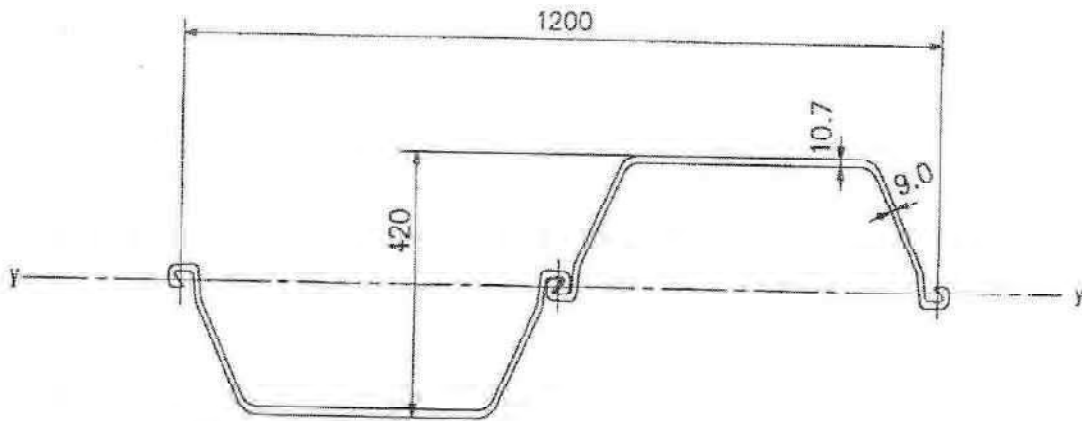
Classification according DIN EN 1993-5:2010		
Steel grade	S 270 GP	S 355 GP
Class	2	2

The section modulus of double piles and per m wall requires lubing of the factory-crimped interlocks to accommodate the shear forces.

ThyssenKrupp Bautechnik GmbH
Hollestraße 7a
45143 Essen Germany



Steel Sheet Pile TKL 605 A



	gross section	weight	second moment of inertia	section modulus
	(cm ²)	(kg/m)	(cm ⁴)	(cm ³)
per m wall	162,58	127,50	38243	1821

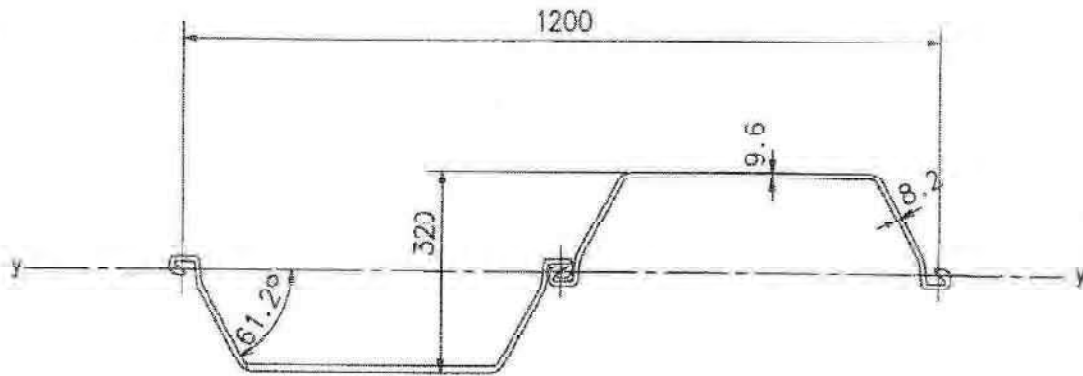
Classification according DIN EN 1993-5:2010		
Steel grade	S 270 GP	S 355 GP
Class	2	3

The section modulus of double piles and per m wall requires locking of the factory-crimped interlocks to accommodate the shear forces.

ThyssenKrupp Bautechnik GmbH
Hollestraße 7a
45143 Essen Germany



Steel Sheet Pile TKL 603



	cross section Area	weight	second moment of inertia	section modulus	circumference	Coating area
	(cm ²)	(kg/m)	(cm ⁴)	(cm ³)	(cm)	m ² /m
Single Pile	81,80	64,20	3660	304	105,00	1,70
Double Pile	163,60	128,40	23020	1440	200,00	3,30
Triple Pile	245,40	192,60	31860	1653	495,00	4,85
per m wall	136,30	107,00	19199	1200	263,00	2,63

Classification according DIN EN 1993-5:2010		
Steel grade	S 270 GP	S 355 GP
Class	3	3

The section modulus of double piles and per m wall requires locking of the factory-crimped interlocks to accommodate the shear forces.

ThyssenKrupp Bautechnik GmbH
Hollestraße 7a
45143 Essen Germany



Dayrout Project

Budgetary Commercial Offer

Dayrout Barrage

Our Ref.-No.: 16-20123EG

Heijningen, 08 December 2016

Dear Sirs,

With reference to above mentioned projects, we hereby would like to present our offer, based on our General Conditions of Sale without obligation and/or engagement.

This offer and the related pricing are only valid for a delivery of the full quantity. In case of a partial order the prices will be subject to revision.

BOQs

Base Solution;

Item	Description	Type	Form	Width Single Pile	W_y	Steel Grade	BMC $w_y \cdot f_y / 1000$	Qty.	Pile Length	Tonnage
-	-	-	-	mm	cm ³ /m	N/mm ²	kNm/m	Pcs	m	to
10.a	Base	PU 12	s.p.	600	1200	S355GP	426	226	6.00	89.632
10.b	Base	PU 12	s.p.	600	1200	S355GP	426	110	8.00	58.168
10.c	Base	PU 12	s.p.	600	1200	S355GP	426	284	10.00	187.724
10.d	Base	PU 12	s.p.	600	1200	S355GP	426	8	14.00	7.403
20.a	Base	PU 18	s.p.	600	1800	S355GP	639	274	10.00	210.706
20.b	Base	PU 18	s.p.	600	1800	S355GP	639	58	14.00	62.443
30.a	Base	PU 28	s.p.	600	2840	S355GP	1'008	534	10.00	543.612
30.b	Base	PU 28	s.p.	600	2840	S355GP	1'008	114	12.00	139.262
40.a	Base	PU 28 +1	s.p.	600	3000	S430GP	1'290	1'400	10.00	1'486.800
								3'008		2'786

Alternative-1;

Item	Description	Type	Form	Width Single Pile	W_y	Steel Grade	BMC $w_y \cdot f_y / 1000$	Qty.	Pile Length	Tonnage
-	-	-	-	mm	cm ³ /m	N/mm ²	kNm/m	Pcs	m	to
10.a	Alternative 1	AZ 12 - 770	d.p.	770	1245	S355GP	442	89	6.00	77.537
10.b	Alternative 1	AZ 12 - 770	d.p.	770	1245	S355GP	442	43	8.00	49.949
10.c	Alternative 1	AZ 12 - 770	d.p.	770	1245	S355GP	442	118	10.00	171.336
10.d	Alternative 1	AZ 12 - 770	d.p.	770	1245	S355GP	442	4	14.00	8.131
20.a	Alternative 1	AZ 18- 800	d.p.	800	1840	S355GP	653	103	10.00	166.242
20.b	Alternative 1	AZ 18- 800	d.p.	800	1840	S355GP	653	22	14.00	49.711
30.a	Alternative 1	AZ 28- 750	d.p.	750	2810	S355GP	998	214	10.00	431.424
30.b	Alternative 1	AZ 28- 750	d.p.	750	2810	S355GP	998	46	12.00	111.283
40.a	Alternative 1	AZ 30- 750	d.p.	750	3005	S430GP	1'292	560	10.00	1'218.560
								1'199		2'284

Alternative-2;

Item	Description	Type	Form	Width Single Pile	W_y	Steel Grade	BMC $w_y \cdot f_y / 1000$	Qty.	Pile Length	Tonnage
-	-	-	-	mm	cm ³ /m	N/mm ²	kNm/m	Pcs	m	to
10.a	Alternative 2	GU 13N	s.p.	600	1270	S355GP	451	226	6.00	81.224
10.b	Alternative 2	GU 13N	s.p.	600	1270	S355GP	451	110	8.00	52.712
10.c	Alternative 2	GU 13N	s.p.	600	1270	S355GP	451	284	10.00	170.116
10.d	Alternative 2	GU 13N	s.p.	600	1270	S355GP	451	8	14.00	6.709
20.a	Alternative 2	GU 18N	s.p.	600	1800	S355GP	639	274	10.00	210.706
20.b	Alternative 2	GU 18N	s.p.	600	1800	S355GP	639	58	14.00	62.443
30.a	Alternative 2	GU 28N	s.p.	600	2840	S355GP	1'008	534	10.00	543.612
30.b	Alternative 2	GU 28N	s.p.	600	2840	S355GP	1'008	114	12.00	139.262
40.a	Alternative 2	GU 30N	s.p.	600	3000	S430GP	1'290	1'400	10.00	1'486.800
								3'008		2'754

Alternative-3;

Item	Description	Type	Form	Width Single Pile	W _y	Steel Grade	BMC W _y *fy/1000	Qty.	Pile Length	Tonnage
-	-	-	-	mm	cm ³ /m	N/mm ²	kNm/m	Pcs	m	to
10.a	Alternative 3	AU 14	s.p.	750	1410	S355GP	501	180	6.00	84.132
10.b	Alternative 3	AU 14	s.p.	750	1410	S355GP	501	88	8.00	54.842
10.c	Alternative 3	AU 14	s.p.	750	1410	S355GP	501	227	10.00	176.833
10.d	Alternative 3	AU 14	s.p.	750	1410	S355GP	501	6	14.00	6.544
20.a	Alternative 3	AU 18	s.p.	750	1780	S355GP	632	220	10.00	194.700
20.b	Alternative 3	AU 18	s.p.	750	1780	S355GP	632	47	14.00	58.233
30.a	Alternative 3	AU 25	s.p.	750	2500	S355GP	888	428	10.00	472.512
30.b	Alternative 3	AU 25	s.p.	750	2500	S355GP	888	92	12.00	121.882
40.a	Alternative 3	GU 30N	s.p.	600	3000	S430GP	1'290	1'400	10.00	1'486.800
								2'688		2'656

Any changes in the specifications as given above will lead to a revision in pricing.

Technical Specifications: Hot Rolled Sheet Piles

Tolerances Sheet piles according to EN 10248-2 length +/- 200 mm, weight +/-5%.
 Grade S355GP and S430GP according to EN 10248-1
 Certificates New from production supplied with standard mill test certificate 3.1.
 Form Supplied as single piles or double piles as indicated on the tables.
 Coating No Coating
 Handling Holes Standard handling hole.
 Packing Loose (not bundled)

Applicable tolerances as per EN10248 for sheet piles.

No further specials are included such as but not limited to inspection visits and the related cost.

Prices

All Prices below are based on Incoterms CIF FO Alexandria, Egypt. Prices are total prices per package.

Base; 2'405'000.00 EUR

Alternative-1; 1'972'000.00 EUR

Alternative-2; 2'266'000.00 EUR

Alternative-3; 2'234'000.00 EUR

Price Validity

1 week from the date of this document.

General remarks

Price of materials and transport are based on given specification. Possible change of this specification may have implications on the price. Any deviation from this specification will lead to additional costs.

Prices given above are according to today's shipment conditions and subject to change. Furthermore, the prices above are subject to change in means of freight rate and raw material cost at the time of order.

Several lots, vessel option on shipper's discretion.

Delivery

Material will be delivered by vessel to Egypt. All our prices are based on Incoterms CIF FO Alexandria Port, Egypt.

Delivery in part cargo or full lot on Seller's choice.

Delivery time:

Cargo readiness to be agreed upon receipt of fully workable and confirmed L/C.

Order will be released for production ONLY upon receipt of fully workable L/C by our bank.

Transport cost and conditions

The above mentioned price is based on the maximum delivery lengths as given above and delivery with modern vessel(s) - (number of vessels in Supplier's option) – CIF Free Out Alexandria Port – all costs for berthing and/or unloading are to be paid by the Buyer/Receivers. Buyer/Receivers has to provide docking/berthing quay in due time and ensure sufficient unloading capacities.

Costs due to not possible docking/berthing will be for account of Buyer/Receivers.

Delays will inevitable result in demurrage, in which case such demurrage will have to be paid by the Buyer/Receivers.

Subject to availability of vessel for shipment based on today's conditions and subject to any surcharges, as valid at time of shipment. Mentioned pricing is based on today's political/economic situation. Special conditions at port of destination may apply, all costs and consequences due to demurrage, detention, storage... etc. for buyer's account.

Payment terms

By irrevocable and workable LC 100% payable at sight against shipping documents. No bid bond or performance bond included in our offer.

Quotation period of validity

The prices above are valid for 1 week after this offer's date.

Inspection

No inspection visit is included in our offer.

L/C:

- | | |
|-------------------------------------|---|
| 1. Total amount: | As per one of above in EUR (-/+5%) |
| 2. Invoicing: | On theoretical weight. |
| 3. Origin/Mill/Manufacturer: | EU |
| 4. Port of Loading: | Any European Port |
| 5. Port of Discharging: | Alexandria, Egypt |
| 6. Partial Shipment: | Allowed |
| 7. Transshipment: | Not allowed |
| 8. Validity: | 1 week from the date of this document. |
| Beneficiary: | ArcelorMittal Projects Europe B.V. |
| Correspondence address: | Mannesmannweg 5, 4794 SL Heijningen, Postbus 52, 4793 ZH
Fijnaart, The Netherlands |
| Tel: | +31 88 0083 847 |
| Fax: | +31 88 0083 700 |
| Available with | ABN AMRO Bank N.V.
Blaak 555
3011 GB Rotterdam
The Netherlands
SWIFT CODE: ABNANL2A-Please refer to the footer for details. |

Page 4 of 13

ArcelorMittal Projects Europe B.V.
Mannesmannweg 5
4794 SL Heijningen
The Netherlands

T +31 88 0083 700

F +31 88 0083 800

www.arcelormittal.com/projects

Documents: FULL SET (3/3) OF ORIGINAL ON BOARD OCEAN BILL OF LADING.
SIGNED COMMERCIAL INVOICE IN 1 ORIGINAL PLUS 4 COPIES.
LEGALIZED INVOICES WILL BE SENT TO BUYER OUTSIDE THE LC.
NON-LEGALISED CERTIFICATE OF ORIGIN IN 1 ORIGINAL PLUS 4 COPIES.
PACKING LIST / WEIGHT LIST IN 1 ORIGINAL PLUS 2 COPIES.
L/C NUMBER WILL BE ON ALL DOCUMENTS ABOVE EXCEPT MILL TEST CERTIFICATE WHICH IS OUTSIDE OF L/C.
BENEFICIARY'S CERTIFICATE STATING 1 ORIGINAL COMMERCIAL INVOICE AND ORIGINAL CERTIFICATE OF ORIGIN WILL BE LEGALISED BY EGYPTIAN EMBASSY OR CONSULATE IN BENEFICIARY'S COUNTRY AND WILL BE SENT DIRECTLY TO THE APPLICANT ALONG WITH THE EUR1 CERTIFICATE.

9. Charges: All bank charges in the country of negotiation are for beneficiary's account including reimbursement charges.

Technical assistance

Other than stated inspections and certifications are not included in this offer.

All calculations, drawings and recommendations are part of ArcelorMittal's service to the customer but not part of an engagement by the contract.

Since these services are of no obligation for both contract partners, they are subject to verification by the customer and ArcelorMittal is not under any liability for any errors or mistakes.

Yours sincerely,

ArcelorMittal Projects

Annexes:

- 1) Delivery Conditions and Tolerances
- 2) General Conditions of Sale

Tolerances on shape and dimensions of hot rolled steel sheet piles according to EN 10248
(reduced tolerances on request)

Tolerances	AU, PU, GU	AZ	AS 500	HZM
Mass ¹⁾	± 5%	± 5%	± 5%	± 5%
Length (L)	± 200 mm	± 200 mm	± 200 mm	± 200 mm
Height (h) ²⁾	h ≤ 200 mm: ± 4 mm h > 200 mm: ± 5 mm	h ≥ 300 mm: ± 7 mm	-	h ≥ 500 mm: ± 7 mm
Thicknesses (t,s)	t, s ≤ 8.5 mm: ± 0.5 mm t, s > 8.5 mm: ± 6%	t, s ≤ 8.5 mm: ± 0.5 mm t, s > 8.5 mm: ± 6%	t > 8.5 mm: ± 6%	t, s ≤ 12.5 mm: -1.0 mm / +2.0 mm t, s > 12.5 mm: -1.5 mm / +2.5 mm
Width single pile (b)	± 2% b	± 2% b	± 2% b	± 2% b
Width double pile (2b)	± 3% (2b)	± 3% (2b)	± 3% (2b)	± 3% (2b)
Straightness (q)	≤ 0.2% L	≤ 0.2% L	≤ 0.2% L	≤ 0.2% L
Ends out of square	± 2% b	± 2% b	± 2% b	± 2% b

¹⁾ From the mass of the total delivery.

²⁾ D/ single pile.

Maximum rolling lengths (longer sections available on request)

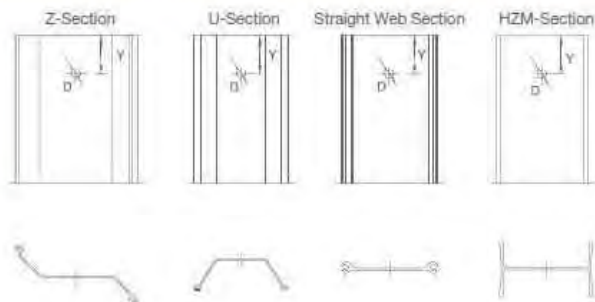
Section	AZ	AU, PU	GU sp ¹⁾	GU dp ¹⁾	AS 500	HZM	RH / RZ	OMEGA 18	C9 / C14	DELTA 13
Length [m]	31	31	24	22	31	33	24	16	18	17

¹⁾ sp – single pile, dp – double pile. Contact us for more details.

Handling holes

Sheet pile sections are normally supplied without handling holes. If requested, they can be provided with handling holes in the centerline of the section. The standard handling hole dimensions are as follows:

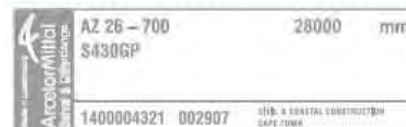
Diameter D [mm]	40	40	50	50	63.5	40
Distance Y [mm]	75	300	200	250	230	150
Diameter D [in]	2.5					
Distance Y [in]	9					



Markings

The following markings can be supplied on request:

- Colour marks defining section, length and steel grade.
- Adhesive stickers showing the customer's name, destination, order number, type and length of profile and steel grade.



Steel grades of sheet pile sections

Steel grade EN 10248	Min. yield strength R_{eH} MPa	Min. tensile strength R_m MPa	Min. elongation $L_0=5.65\sqrt{S_0}$ %	Chemical composition (% max)					
				C	Mn	Si	P	S	N
S 240 GP	240	340	26	0.25	–	–	0.055	0.055	0.011
S 270 GP	270	410	24	0.27	–	–	0.055	0.055	0.011
S 320 GP	320	440	23	0.27	1.70	0.60	0.055	0.055	0.011
S 355 GP	355	480	22	0.27	1.70	0.60	0.055	0.055	0.011
S 390 GP	390	490	20	0.27	1.70	0.60	0.050	0.050	0.011
S 430 GP	430	510	19	0.27	1.70	0.60	0.050	0.050	0.011

ArcelorMittal mill specification

S 460 AP	460	550	17	0.27	1.70	0.60	0.050	0.050	0.011
----------	-----	-----	----	------	------	------	-------	-------	-------


AMLoCor	Min. yield strength R_{eH} MPa	Min. tensile strength R_m MPa	Min. elongation $L_0=5.65\sqrt{S_0}$ %	Chemical composition (% max)							
				C	Mn	Si	P	S	N	Cr	Al
Blue 320	320	440	23	0.27	1.70	0.60	0.05	0.05	0.011	1.50	0.65
Blue 355	355	480	22	0.27	1.70	0.60	0.05	0.05	0.011	1.50	0.65
Blue 390	390	490	20	0.27	1.70	0.60	0.05	0.05	0.011	1.50	0.65

All the sections can be delivered in steel grades according to EN 10248-1, but not all sections are available in all steel grades. Below table summarizes the current possibilities. Special steel grades like S 460 AP, American ASTM A 572 steel grades, steels with improved corrosion resistance like AMLoCor and ASTM A 690, or steels with copper addition in accordance with EN 10248 Part 1 Chapter 10.4 can be supplied on request. A modified steel grade A 690 with higher yield strength is also available upon request.

Please contact us for updated information. Galvanisation has an influence on the chemical composition of the steel and must therefore be specified in the purchase orders.

We strongly recommend informing us of all surface treatment to be applied to the product when placing orders.

ArcelorMittal can also provide steel grades complying with other standards (see table below).



ArcelorMittal

General conditions of sales

Article 1 General

1.1 For the purpose of these general conditions of Sales, the following terms will have the following meaning:

- a. **"Seller"**: ArcelorMittal Projects Europe B.V. or any entity controlled or under the same control as ArcelorMittal Projects Europe B.V.
- b. **"Buyer"**: the (prospective) buyer of the products and the Seller's contracting party.
- c. **"Quotation"**: the offer made by Seller.
- d. **"Order Confirmation"**: the order confirmation issued by the Seller which, together with these Conditions, constitute the entire agreement between Buyer and Seller (hereinafter the "agreement"), and supersede, in their entirety, any other conflicting terms and conditions proposed by Buyer.
- e. **"Conditions"**: these general conditions of sale of the Seller.

1.2 Commercial terms, used in Quotations, Order Confirmations or otherwise, must be interpreted according to the ICC Incoterms that apply at the time that the agreement is concluded.

1.3 These Conditions shall apply to and are valid for all Quotations, Order Confirmations, agreements and deliveries made by the Seller. Any purchase or other conditions to the contrary are rejected explicitly by the Seller. Unless otherwise agreed in Order Confirmation.

1.4 Quotations, price lists and other communications from the Seller are without obligation. Verbal commitments and arrangements or simple e-mail exchanges made by the Seller's employees will not be binding on the Seller until the Seller has explicitly confirmed these by means of an Order Confirmation.

1.5 The Seller will not be liable for any apparent misstatements in any publication of the Seller of images, sizes, weights, qualities and/or price lists of any nature whatsoever.

Article 2 Deliveries

2.1 The agreed delivery method, including the selected Incoterm, place of delivery and time of delivery/ delivery periods are as laid down in the Order Confirmation. In the event such information is not laid down in the Order Confirmation, then the delivery is Ex-Works.

If the parties agree that the products are to be delivered to their destination, the Seller shall determine the route and means of transportation, as well as the selection of forwarding agents and carriers. The Buyer shall be responsible to provide to the Seller, sufficiently in advance in order to permit Seller to make the necessary arrangements, all appropriate information including (a) marking and shipping instructions when agreed as applicable, (b) import certificates, documents required to obtain necessary government licenses and any other documents prior to their shipment, and (c) Customer's confirmation that it has caused the opening or establishment of a letter of credit if required. If any such instructions, documents or confirmations are not so received or would (in Seller's sole judgment) require unreasonable expense or delay on its part, then Seller may, at its sole discretion and without prejudice as to any other remedies, delay the time of shipment and/or cancel or terminate said agreement.

2.2 The agreed delivery dates are an estimate of the periods within which delivery will take place and are not strict deadlines. If the delivery date is exceeded, the Buyer will therefore not be entitled to termination and/ or compensation, unless the Buyer proves intent or wilful recklessness on

ArcelorMittal Projects Europe B.V.
Mannesmannweg 5, 4795 SJ Heijningen,
P. O. Box 52, 4793 ZH Fijnaart
The Netherlands

1

June 2016

the Seller's part. Buyer is not entitled to delay or settle the payment of any outstanding invoices in such an event. Unless otherwise agreed in Order Confirmation.

2.3 If for whatever reason, a delivery is delayed beyond the delivery time, the Seller will be entitled to make partial deliveries and henceforth issue separate invoices.

2.4 The Seller reserves the right to change the delivery conditions and the transport means, as appropriate for the correct execution of the order/agreement.

2.5 Upon delivery of the products to the Buyer under the applicable Incoterm (in accordance with delivery terms under 2.1 above). Buyer bears the risks of damages or loss of the products, regardless of the retention of title under Article 8.1 or any complaint pursuant to Article 5.6.

Article 3 Price and payment

3.1 The Seller will not proceed with full or partial performance of the agreement until the Buyer has been found creditworthy by the Seller or by any third party selected by Seller to assess if the Buyer is creditworthy, as the case may be. If the Buyer is not found creditworthy or if the Seller does not receive a credit insurance limit to cover its receivables under the agreement, the Seller will be entitled to demand advance payment or provision of security from the Buyer. Without credit acceptance, advance payment or the provision of security, the Seller will be entitled to cancel the agreement by means of a mere written statement, without any indemnification being due to the Buyer.

3.2 Payment must be made within 30 (thirty) days of the invoice date. This term is fatal. The Buyer's right to set off any claims against the Seller is explicitly excluded. If the Buyer has or submits a complaint under or in connection with the agreement, such complaint does not entitle the Buyer to suspend payment of the invoice.

3.3 After the expiry of the payment period referred to in Article 3.2, the Buyer is in default of payment, without a demand or notice of default being required, if payment has not been made within that period.

3.4 If the Buyer is in default in accordance with the provisions of the previous paragraph, it will from the due payment date, owe interest on the outstanding amount that will be equivalent to the statutory interest. If the Seller needs to take judicial or extrajudicial action due to the Buyer's failure to pay in good time, all resulting costs will be reimbursed by the Buyer.

Article 4 Termination of the agreement

4.1 The Seller will be entitled to suspend performance of its obligations (in relation to the relevant agreement or another agreement concluded between parties) if and as long as the Buyer does not fully, properly or not in good time fulfil any of its obligations vis-a-vis the Seller that arise from the agreement. If the Buyer is in payment default or does not fulfil any of its obligations under the agreement (including without limitation the failure by Buyer to provide information and documents agreed under the agreement such as those listed in Article 2.1 above), the Seller will be entitled to terminate the agreement with immediate effect in writing without being obliged to compensate the Buyer for any loss on its part, without prejudice to any rights that Seller may claim for its eventual prejudice.

4.2 Cancellation by the Buyer of a concluded agreement is not possible, except with the Seller's prior written consent. If the Seller agrees to the cancellation, the Buyer will pay to the Seller a compensation of at least 25% of the total sum that the Buyer should have paid to the Seller under the agreement, without prejudice to the Seller's right to have a full compensation in the event Seller suffer losses or damages arising out of such cancellation.

4.3 Any agreement concluded between Buyer and Seller cannot be (partly) dissolved by Buyer.

Article 5 Warranty, complaints and obligations of the Seller

5.1 Without prejudice to Article 5.3, it is precise that any products delivered by Seller to Buyer are delivered as is, unless otherwise agreed upon in the Order Confirmation. Buyer shall be solely responsible for any security checks and measures in order to verify safe use, application and/or implementation of the products.

5.2 All products sold and delivered are subject to the normally accepted tolerances as to dimensions, quantities and weight. Quality requirements or quality specifications of items to be delivered by the Seller must be agreed on explicitly. Minor and/or normally acceptable deviations and differences, such as in colour, size, weight or finish, which are customary in the industry or cannot be avoided technically, do not constitute grounds for submitting a complaint and will not render the products non-conform.

5.3 The Seller's warranty for products does not extend beyond the quality specifications mutually and expressly agreed in writing in the agreement. In addition, the Seller assumes no obligation or liability for any technical advice furnished before and/or during the use of products, whether provided verbally or in writing or by way of trials. Furthermore, the Seller does not guarantee and will never be deemed to have guaranteed or warranted that the item bought is suitable for the purpose for which the Buyer wishes to process, treat, use or have third parties use the products. Overall, the Seller is not informed about (all) such purpose(s) and the Buyer has the sole responsibility to perform a proper due diligence in order to determine whether the products are indeed suitable.

5.4 Any preliminary samples, prototypes, example products and/or models provided or shown by Seller

ArcelorMittal Projects Europe B.V.
Mannesmannweg 5, 4795 EJ Heijningen,
P.O. Box 52, 4793 ZH Fijnaart
The Netherlands

2

June 2015









E-11-2. Cast-in-place RC Pile

Date: 9/11/2016

To : M/S. Sanyu Consultants INC.
Project : Assiut Regulator
Subject : **Quotation for Bored Piles**
Sr. No of quotation: 062/11/2016-rcv.00

Dear Sir,

Regarding the above mentioned project and subject, we are pleased to submit our quotation for Bored piles as follow:

Sr.	Item	Unit	Qty	Unit Rate (LE)	Total
1	Mobilization & Demobilization the required equipment.	LS	1	250,000 (Only two hundred and fifty thousand EGP)	250,000
1	Execution only , Reinforced Concrete piles Bored Piles – case (1) – Dia. 80cm with Length 12.8 m , No. of piles= 90 pile	LM	1152	950 (Only Nine hundred and fifty EGP).	1,094,400
2	Execution only , Reinforced Concrete piles Bored Piles– case (2) – Dia. 80cm with Length 14.3 m , No. of piles= 90 pile	LM	1287	950 (Only Nine hundred and fifty EGP).	1,222,650
3	Execution only , Reinforced Concrete piles Bored Piles – case (3) – Dia. 90cm with Length 15.3 m , No. of piles= 72 pile	LM	1101.6	1300 (Only one thousand and three hundred EGP)	1,432,080
4	Execution only , Reinforced Concrete piles Bored Piles – case (4) – Dia. 90cm with Length 11.3 m , No. of piles= 90 pile	LM	1017	1300 (Only one thousand and three hundred EGP)	1,322,100
5	Execution only , Reinforced Concrete piles Bored Piles – case (5) – Dia. 100cm with Length 12.8 m , No. of piles= 72 pile	LM	921.6	1200 (Only one thousand and two hundred EGP)	1,105,920

Head Office - Alexandria - Egypt

13 Ahmed Kamha St., Camp Cezar.
Tel. : +20 3 5905875
Fax : +20 3 5912069
Email : info.eg@delta-foundations.com

Cairo Branch - Egypt

27 Atia El Kholy St., Nasr City.
Tel. : +20 2 24056354
Fax : +20 2 24010566
Email : info.eg@delta-foundations.com

Dubai Branch - UAE

PO Box 114940 Dubai
Tel. : +971 4 3455773
Fax : +971 4 3455772
Email : info.uae@delta-foundations.com

Al Khobar Branch - KSA

PO Box 1672 Alkhobar
Tel. : +966 13 8491613
Fax : +966 13 8491612
Email : info.ksa@delta-foundations.com



Sr.	Item	Unit	Qty	Unit Rate (LE)	Total
6	Execution only , Reinforced Concrete piles Bored Piles – case (6) – Dia. 100cm with Length 13.8 m , No. of piles= 72 pile & length 8.8 m , No. of piles = 32 pile	LM	1275.2	1200 (Only one thousand and two hundred EGP)	1,530,240
7	Execution only , Reinforced Concrete piles Bored Piles – case (7) – Dia. 110cm with Length 13.3 m , No. of piles= 72 pile & length 8.3 m , No. of piles = 32 pile	LM	1223.2	1450 (Only one thousand and four hundred and fifty EGP)	1,773,640
8	Execution only , Reinforced Concrete piles Bored Piles– case (8) – Dia. 110cm with Length 14.3 m , No. of piles= 56 pile & length 7.3 m , No. of piles = 32 pile.	LM	1034.4	1450 (Only one thousand and four hundred and fifty EGP)	1,499,880
9	Execution only , Reinforced Concrete piles Bored Piles– case (9) – Dia. 120cm with Length 14.8 m , No. of piles= 56 pile & length 7.8 m , No. of piles = 28 pile.	LM	1047.2	1600 (Only one thousand and six hundred EGP)	1,675,520
10	Execution only , Reinforced Concrete piles Bored Piles– case (10) – Dia. 120cm with Length 12.3 m , No. of piles= 56 pile & length 7.3 m , No. of piles = 28 pile.	LM	893.2	1600 (Only one thousand and six hundred EGP)	1,429,120
11	Pile Loading test on Non-working pile with (working load = 5000 KN) and (test load = 10,000 KN).	test	1	600,000 (Only six hundred thousand EGP)	Rate only
12	Pile Loading test on Non-working pile with (working load = 10,000 KN) and (test load = 20,000 KN).	test	1	1,350,000 (Only one million, three hundred and fifty thousand EGP)	Rate only

Head Office - Alexandria - Egypt

13 Ahmed Kamha St., Camp Cezar.
Tel. : +20 3 5905875
Fax : +20 3 5912069
Email : info.eg@delta-foundations.com

Cairo Branch - Egypt

27 Atia El Kholy St., Nasr City.
Tel. : +20 2 24056354
Fax : +20 2 24010566
Email : info.eg@delta-foundations.com

Dubai Branch - UAE

PO Box 114940 Dubai
Tel. : +971 4 3455773
Fax : +971 4 3455772
Email : info.uae@delta-foundations.com

Al Khobar Branch - KSA

PO Box 1672 Alkhobar
Tel. : +966 13 8491613
Fax : +966 13 8491612
Email : info.ksa@delta-foundations.com



Sr.	Item	Unit	Qty	Unit Rate (LE)	Total
13	Pile Loading test on Non-working pile with (working load = 15,000 KN) and (test load = 30,000 KN).	test	1	2,000,000 (Only two million EGP)	Rate only
14	Pile Loading test on working pile with (working load = 5000 KN) and (test load = 7500 KN).	test	1	450,000 (Only four hundred and fifty thousand EGP)	Rate only
15	Pile Loading test on working pile with (working load = 10,000 KN) and (test load = 15,000 KN).	test	1	850,000 (Only eight hundred and fifty thousand EGP)	Rate only
16	Pile Loading test on working pile with (working load = 15,000 KN) and (test load = 22,500 KN).	test	1	1,500,000 (Only one million and five hundred thousand EGP)	Rate only
17	Performing Pile Integrity test (PIT) on 25% of total No. of piles.	test	1	200 (Only two hundred EGP)	Rate only
18	Pile Head Demolishing.	pile	1	800 (Only eight hundred EGP)	Rate only
19	Site Disposal.	m3	1	60 (Only Sixty EGP)	Rate only
Total (LE)					14,335,550

• **Financial Terms:**

1	30% advance payment should be paid to Delta upon contract.
2	Half -Monthly invoices should be paid to Delta in one week.
3	95% of the invoice amount is to be paid within 15 days from submitting, retention of 5% of invoice amount is to be paid along with the final invoice.
4	Any delay in Delta payments is added to the project duration and gives Delta the right to stop the work without and responsibility on Delta.
5	Prices exclude all taxes and value added taxes.
6	Prices exclude site excavation and dewatering if needed.
7	The quantities are estimated & final payment will be according to the executed quantities.
8	Any stoppage for Delta due to any reasons related to first party; A twenty thousand Egyptian Pounds should be paid to Delta as a daily Penalty for each rig machine including its staff.
9	Validity of quotation is 30 days from date.

Head Office - Alexandria - Egypt

13 Ahmed Kamha St., Camp Cezar.
Tel. : +20 3 5905875
Fax : +20 3 5912069
Email : info.eg@delta-foundations.com

Cairo Branch - Egypt

27 Atia El Kholy St., Nasr City.
Tel. : +20 2 24056354
Fax : +20 2 24010566
Email : info.eg@delta-foundations.com

Dubai Branch - UAE

PO Box 114940 Dubai
Tel. : +971 4 3455773
Fax : +971 4 3455772
Email : info.uae@delta-foundations.com

Al Khobar Branch - KSA

PO Box 1672 Alkhobar
Tel. : +966 13 8491613
Fax : +966 13 8491612
Email : info.ksa@delta-foundations.com



1- Sanyu Consultants INC. Responsibilities:

1	Site handover free of all above & underground serves (Cables, Pipes, Culverts, and ext.). The employer will provide drawing including all underground services. Any diversion requested will be the owner responsibility without any extra charge or deduction from our paid.
2	Prepare the site for machines maneuver by placing compacted 30 cm of hard soil if needed, one meter above ground water table, as per Delta requirements.
3	Provide electrical source (380v, 50H, 100 KVA) & sweet water for work without stop and all free of charge.
4	Issue all work permits for Delta crew and equipment.
5	Supply the required concrete and steel reinforcement for the piles.
6	Excavation works, around the piles and Dewatering if needed.

2- DELTA Responsibility:

1	Surveying work required for piling.
2	Provide the required equipments & crew to complete the work.
3	Fabricate & Lowering the steel cages inside the boreholes.
4	Pile Head demolishing.
5	Performing load tests on working & non-working piles and PIT.

Hoping our quotation meet your satisfaction.

**Best Regards,
 Eng. Alaa Beshir
 General Manager**

A. Beshir

Head Office - Alexandria - Egypt

13 Ahmed Kamha St., Camp Cezar.
 Tel. : +20 3 5905875
 Fax : +20 3 5912069
 Email: info.eg@delta-foundations.com

Cairo Branch - Egypt

27 Atia El Kholi St., Nasr City.
 Tel. : +20 2 24054354
 Fax : +20 2 24010566
 Email: info.eg@delta-foundations.com

Dubai Branch - UAE

PO Box 114940 Dubai
 Tel. : +971 4 3455773
 Fax : +971 4 3455772
 Email: info.uae@delta-foundations.com

Al Khobar Branch - KSA

PO Box 1672 Alkhobar
 Tel. : +966 13 8491613
 Fax : +966 13 8491612
 Email: info.ksa@delta-foundations.com





١٥ نوفمبر ٢٠١٦

الموضوع : عرض أسعار الخوازيق الحاملة للأقطار المختلفة
لمشروع مجموعة منظمات الري بديروط - أسيوط

عناية السيد المهندس / ماسانوبو كادوواكي MASANOBU KADOWAKI

المدير الفني - مدمجة سانيو الاستشارية SANYU CONSULTANTS INC.

تحية طيبة وبعد

بالإشارة إلى الموضوع عاليه نتشرف بإرفاق عرضنا لأسعار الأقطار المختلفة بالأعداد و الأطوال المحددة
بمعرفة سيادتكم كالاتى:

- ١- الخوازيق المزمع استخدامها طراز Bored Piles خوازيق تفرع .
- ٢- يسلم الينا الموقع مستويًا وجافًا وخاليا من العوائق الظاهرة والمدفونة وبه المنحدرات اللازمة لنزول
وصعود الماكينات بسهولة ويسر .
- ٣- هذا العرض يسرى لمدة إسبوعين اى حتى ٣٠ نوفمبر ٢٠١٦ نظراً للتغيرات الطارئة والسريعة فى
أسعار الخامات والخدمات .

راجين أن ينال عرضنا قبول سيادتكم ونحن رهن لأية أستفسارات

وتفضلوا بقبول فائق الاحترام

شركة كونكريت للأساسات الميكانيكية.

مهندس / مختار منيب.

We have the honor to attach our quotation for different size and nos. of RC piles as following conditions:

- 1-All piles are Bored pile method
- 2-The site will handed to us free from any obsticals (seen or bared such as utilities, foundations, ...), leveled and enough bearing capacity for moving our equipment.
- 3-Validity up to November 30, 2016 due to unstability of the market



٣٣ ب شارع رمسيس - عمارة معروف شقة ٤٦ ت : ٢٥٧٨٠٢٤١ - ٢٥٧٧٠٠٣٦ - فاكس : ٢٥٧٨٠٢٤٠

33 B, Ramsis Street, Maarouf Bldg. Flat 46 Tel. : 25780241-25770036 Fax. : (202) 25780240

www.concrete-eg.com E-mail : info@concrete-eg.com

Concrete Co. Offer :

15 nov. 2016

No.	Site	Pile Dia. (mm)	Cross Section Area (m2)	Pile Length (m)	No of Piles	Mob & Demob Cost (EGP)	Drilling&pouring Cost (EGP)	Concret Volume (M3)	Concrete Cost (EGP)	Re-Bar (Cage) Cost (EGP)	Load Test	Total		
1	Ibrahimia	800	0.5024	12.8	90	150,000.0	1,382,400.0	665.6	665,579.5	745,449.1	150,000.0	3,093,429	6,227,135.3	
	Bahr Yusef		0.5024	14.3	90	150,000.0	1,544,400.0	678.9	678,918.2	760,388.4	-	3,133,707		
2	Ibrahimia	900	0.63585	15.3	72	150,000.0	1,762,560.0	735.5	735,475.0	823,732.0	170,000.0	3,641,767	6,960,130.9	
	Bahr Yusef		0.63585	11.3	90	150,000.0	1,728,900.0	679.0	678,992.4	760,471.5	-	3,318,364		
3	Ibrahimia	1000	0.785	12.8	72	110,000.0	1,843,200.0	759.6	759,628.8	850,784.3	200,000.0	3,763,613	8,846,790.3	
	Bahr Yusef		0.785	13.8	72	110,000.0	1,987,200.0	819.0	818,974.8	917,251.8	-	3,833,427		
				0.785	8.8	32	110,000.0	647,680.0	232.1	232,108.8	259,961.9	-		1,249,751
4	Ibrahimia	1100	0.94985	14.3	56	90,000.0	2,202,200.0	798.7	798,671.9	894,512.5	240,000.0	4,225,384	11,656,672.9	
	Bahr Yusef		0.94985	7.3	32	90,000.0	677,440.0	233.0	232,979.2	260,936.7	-	1,261,356		
				0.94985	13.3	72	90,000.0	2,633,400.0	955.1	955,055.2	1,069,661.8	-		4,748,117
				0.94985	8.3	32	90,000.0	770,240.0	264.9	264,894.2	296,681.5	-		1,421,816
5	Ibrahimia	1200	1.1304	12.3	56	92,000.0	2,066,400.0	817.6	817,550.5	915,656.6	270,000.0	4,161,607	11,387,183.3	
	Bahr Yusef		1.1304	7.3	28	92,000.0	674,520.0	242.6	242,606.4	271,719.2	-	1,280,846		
				1.1304	14.8	56	92,000.0	2,486,400.0	983.7	983,719.3	1,101,765.6	-		4,663,885
				1.1304	7.3	28	92,000.0	674,520.0	242.6	242,606.4	271,719.2	-		1,280,846

E-952



AHMAED METAWO (for pilling foundation)



Dears;

Following is our estimation for the construction of the Continuous Flight Auger cast in place Concrete pile.

Please note that this quotation is valid up to December 15, 2016.

Item	Unit	Q'ty	Unit Price EGP	Total Price EGP
90 Nos 12,8 m, 90 Nos 14,3 m Pile Construction: dia 800mm (72 Nos 15.3 m & 90 Nos 11.3m length)				
1- Mobilization:				
Mobilization, set up of piling equipment at site and demob. after completion	L.S	1	175,000	175,000
2- Construction Work:				
Excavation	m	2,119	1,500	3,177,900
Concrete work (supply & pouring)	m3	1,420	1,050	1,491,000
Re-bar work (supply & fabrication)	ton	107.7	14,500	1,562,035
Load Ttest	L.S	1	165,000	165,000
Total				6,570,935

Remarks:

- 1- Our price based on your request quantity, diameters and construction method.
- 2- Fabrication of reinforced steel cage based on Egyptian Code.
- 3- Payment conditions:
 - a. 50% total amount in advance
 - b. Weekly payment based on site progress.
- 4 Our price for construction only for drilling pile, pour concrete, fabricat steel cage

شركة
 احمد متاوى
 مهندس
 استشاري

Enr. KHALED A. Soliman

KH

AHMAED METAWO (for piling foundation)



Dears;

Following is our estimation for the construction of the bored pile concrete pile:

Please note that this quotation is valid up to December 15, 2016.

Item	Unit	Q'ty	Unit Price EGP	Total Price EGP
Pile Construction: dia 1100mm (56 Nos. 12.3 m, 28 Nos. 7.3 m, 56 Nos. 14.8 m and 28 Nos. 7.3m length)				
1- Mobilization:				
Mobilization, set up of piling equipment at site and demob. after completion	L.S	1	300,000	300,000
2- Construction Work:				
Excavation	m	1,926	3,000	5,779,200
Concrete work (supply & pouring)	m3	2,300	1,050	2,415,000
Re-bar work (supply & fabrication)	ton	174.1	14,500	2,525,125
a. Load Ttest	L.S	1	250,000	250,000
Total				11,269,325

Remarks:

- 1- Our price based on your request quantity, diameters and construction method.
- 2- Fabrication of reinforced steel cage based on Egyptian Code.
- 3- Payment conditions:
 - a. 50% total amount in advance
 - b. Weekly payment based on site progress.
- 4 Our price for construction only for drilling pile, pour concrete, fabricat steel cage

شركة
مهندسة
للخدمات
الهندسية

Eng. KHALED A. SOLIMAN



Our Ref: SAN-6545-SOF-001

Date: 07/12/2016

SANYU CONSULTANT

Subject: Dayrut Regulator

Dear Sir,

With reference to your invitation, we have the pleasure to present our offer according to the prices and conditions stated below:

I) Scope of work:

- Execution of bored piles and driven sheet piles.
- The rates and prices listed in the attached Bill of Quantities are for work as described in this offer. Should any variation of the works or soil conditions prevail, and our rates prices found to be no longer applicable, new rates and prices shall be agreed upon before the varied work begins.
- Meanwhile, the total amount of work will be calculated according to the final quantities of work executed on site according to the rates shown in the attached bill of quantities.
- The length of piles invoiced is measured from the tip elevation to the working platform.

II) Method of execution:

1. BORED PILE (ON SHORE):

1. Pile position shall be set out by means of surveying instruments.
2. Our drilling machine setting out shall be performed by centering the excavation tool into the temporary casing and the Kelly bar will be vertically positioned.
3. The first 3 meters shall be drilled with oversized auger and then 4 meters temporary casing shall be installed. The casing diameter will be 5-10 cm larger than the pile diameter.
4. The pile will be excavated using different types of tools (augers and buckets) according to the nature and consistency of the soil. The excavation will be performed using bentonite slurry as drilling fluid which will be pumped from the mixed bentonite storage tank always keeping a positive head (1-2m above the water table) to keep the hole opened. Any bentonite slurry loss due to seepage will be immediately compensated.
5. The drilling operation will proceed to the design depth. The last one or two meters of the pile will be drilled using cleaning bucket which also clean the tip of the pile prior to placing the reinforcement cage and the concreting operation.



6. By means of a service crane the reinforcement cage will be lowered into the pile. The minimum clear distance between the reinforcing bars should be 100mm to ensure that the concrete will flow outwards from the center of the cage to fill the pile shaft completely. On the other hand (75 mm) concrete spacers will be fixed to the cage to maintain concrete cover as well as to center the cage in the hole.
7. The cage will be anchored to the steel casing to prevent it from rising up during casting concrete. This will be done by welding the hook bars to the top of the casing.
8. The cage will be in accordance with the final drawings and project specification.
9. The reinforcement steel bars will be weldable steel in accordance with ASTM A706 weldable steel.
10. Lowering of the steel cage will be followed by the installation of (8-10) inches diameter tremie pipe. The tremie pipe is placed by means of a service crane to approximately 300mm above the base of the pile, and a steel plate is placed at the tremie hopper before the concrete is discharged, then will be pulled out by means of a rope without any interruption to concrete supply just before the hopper is full. The length of the tremie will be reduced as the concrete is being placed. The lower end of the tremie pipe remains submerged in concrete throughout the process and the drilling fluid is displaced upwards by the concrete forming the pile shaft. The concrete used shall be in accordance with project specification having 20-23cm slump.
11. The temporary casing will be withdrawn from the ground immediately after the completion of concreting, (before concrete setting) and after cutting the suspended reinforcement cage.

2. SHEET PILES

1. In-site fabricated guide frame (template) controlled by surveyors will be set up on two levels to adjust positions, verticality and alignment of the proposed driven sheet piles.
2. Sheet piles will be pitched first in the guide frame (template) and then driven using hydraulic vibrator hummer.
3. Sheet piles will be driven in agreed sequence to comply with the general requirements.
4. The sheet piles will be driven to the required design tip elevation or to a sensible refusal whichever is earlier.

III) Conditions:

We require you to provide us with the following items – at your own expense – on site during the piling operation:

1. A working platform that is firm, dry and well compacted with a dolomite layer Min. 25 cm to sustain our heavy equipment. Also it is very important that the working platform be higher than the reinforced steel level by at least 25 cm to insure free maneuvering of our heavy equipment between executed piles.



OSMAN GROUP

www.osman.net

20, Haroun Street - Dokki - Giza Postal Code : 12311
P. O. Box: 101 Orman - Giza - Egypt
Tel. : (+202) 37485199 - 37488164 - 37492276
: (+202) 33368891
Fax : (+202) 37486263
Email : info@misrraymond.com

٢٠ شارع هارون - النقى - الجيزة, رقم بريدى : ١٢٣١١
ص.ب. ١٠١ الأورمان - جيزة - مصر
تليفون : ٣٧٤٨٥١٩٩ - ٣٧٤٨٨١٦٤ - ٣٧٤٩٢٢٧٦ (+٢٠٢)
: ٣٣٣٦٨٨٩١ (+٢٠٢)
فاكس : ٣٧٤٨٦٢٥٣ (+٢٠٢)



2. Suitable site access and suitable area for loading, erecting and unloading equipment.
3. Official bench marks.
4. Site protection. (If required).
5. Necessary permits to allow our work to proceed day and night (24 hours/day) including any kind of permits required to facilitate our works.
6. Enough space at the work area to set up our equipment, offices and bentonite tanks as follows:-
 - a. Bentonite Tanks : 75m x 20m
 - b. Excavated Material Stock Pile Area : 100m x 40m
7. Supporting, disconnecting or diverting the existing utilities (water pipes, gas pipes, electric cables, telephone cables ... etc.)
8. **Water source and a continuous source of electricity (Consumption at your own expense).**
9. **Concrete for 24 hours at the location of each pile including the waste.**
10. **Weldable Steel for the site work shop including the waste with rates that allow the execution according to the time schedule.**
11. **Supply and delivery of all sheet piles in accordance with the specification.**

IV) Prices:

Our Prices are based on:

1. Transport equipment to the site once. In case of transporting equipment back to the site the equipment is mobilized by you without any cost.
2. Add a bonus of 100% on the Pile price per liner meter in the case of drilling in the rocky soil, limestone or broken Rock.

Our Prices do not include:

1. Any soil investigation.
2. Any excavation of the site of the project.
3. Excavation work around the piles for Pile head trimming.
4. Transporting output of drilling.
5. Pile head trimming.
6. Supply and execution of plain concrete for footing.
7. Integrity sonic test.
8. Dynamic and sonic coring test.
9. **Sales tax on contracting, decennial liability insurance and additional value.**



Our offer is dependent on:

1. Site visit.
 2. National or state statute and currency exchange rate fluctuations.
- **This offer is valid for one month**

V) Schedule:

- We will complete the piling works according to the amount of work assigned to us. This schedule starts from the date of: (Whichever is later)
- * Signing the contract including mobilization of equipment.
- * Handing over the site ready for work.
- * Receiving the advance payment.
- * Receiving the final approved drawings.

VI) Terms of payment:

1. 25 % of the total amount of the contract to be paid in advance upon signing the contract.
 2. 95 % of our half monthly invoices after deducting the advance payment (25%) to be paid within one week of submission (5 % deduction from our invoices will be paid within one month after the completion of our scope of work). Delay in payment entitles Misr Raymond to stop works on site and to claim delay time and expenses.
- Any delays caused by factors out of our control we will charge 7,500 \$/Rig/day and an extension of time related to these delays shall be added to our schedule.

We hope that you will find our offer of interest and in case of any inquiries please do not hesitate to contact the undersigned.

Thank you and Best regards,

Mostafa Aboulezz
Technical Office Manager



DAYRUT REGULATOR PROJECT
Bill of Quantities

Serial	Item	unit	Rate (\$)
1	Mobilization & Demobilization.	LS	40,000
2	Execution of bored piles (80cm) , does not include the supply of concrete and Steel.	L.m	95
3	Execution of bored piles (100cm) , does not include the supply of concrete and Steel.	L.m	120
4	Execution of bored piles (120cm) , does not include the supply of concrete and Steel.	L.m	145
5	On shore driven sheet piles to the required length. Price does not include supply or painting of sheet piles.	Ton	475
6	Off shore driven sheet piles to the required length. Price does not include supply or painting of sheet piles.	Ton	950

(Handwritten signature/initials)

Date : 20 Dec. 2016

Bored Piles – Non Binding Budgetary Offer “Cost”

Project: Construction of the New Dirout Group of Regulators, Piling Work

Dear Sir,

Kindly find hereinafter our budgetary offer for executing the bored piling works using our owned equipment subject to the prices and conditions stated herein after.

It is to be noted that our budgetary offer considers to deliver Four piling rigs to the project location, as well as Four crawler cranes and loader(s) to serve the proposed rigs.

I. Documents & References

1-Invitation e-mail dated on November 14th, 2016

2-Project summary and preliminary design drawings, BOQ attached within the invitation e-mail

II. Scope of work

We based our budgetary offer for executing cast in situ bored piles as detailed below:

- 1- Mobilization of Piling Equipment and de-mobilization after completion of work
- 2- Performing preliminary compression load test on Non-working piles.
- 3- Performing compression load test on working piles.
- 4- Drilling & Installation of app. 878 No. of land Cast-In-Situ Bored piles of ϕ 800mm, 1000 & 1200mm with driving depths - mentioned in the Cast-in-place RC Pile sheet - measured from the working platform at 9.40 higher than the cut off level prepared by Others.

The final quantities will be defined upon completion of works

- 5- Performing integrity pile load tests on all piles.

III. Technical

Bored Pile:

The bored piles will be installed using our owned piling rigs "Bauer/Soilmec or equivalent" from the suitable working platform provided by Others according to the final approved design at maximum 2.0m above the pile design cut off level and as per the following sequence:

1. Pile Position shall be set out by means of surveying instruments.
2. Our drilling machine setting out shall be performed by centring the excavation tool into the permanent casing and the Kelly bar will be vertically positioned.
3. The first (5) meter shall be drilled with oversized auger, then (5) meter temporary casing shall be installed with (one) meter up stand above the ground level, the casing diameter will be 5 cm oversize the pile diameters.
4. The pile will be excavated using different types of tools augers and buckets according to the nature and consistency of soil. The excavation will be performed using bentonite slurry as drilling fluid which will be pumped from the mixed bentonite storage tank keeping always a positive head (1.5 m above the water table) to keep the hole opened. Any bentonite slurry loss due to seepage will be immediately compensated.
5. The drilling operation will be proceeding to the design depth. The last one or two meters of the pile will be drilled using cleaning bucket which also clean the tip of the pile prior to placing the reinforcement cage and the concreting operation. Meanwhile, a bentonite slurry sample will be taken to check properties (sand content, density, viscosity and PH).

Should the in situ test results are out of the specification the bentonite slurry inside the hole will be replaced by fresh or recycle bentonite using air lift technique or submersible pump. Recycling the bentonite slurry inside the borehole shall continue till reaching the specified values.

6. By means of a service crane the reinforcing cage will be lowered into the pile. The minimum clear distance between the reinforcing bars should be 70/100mm to ensure that the concrete will flow outwards from the center of the cage to fill the pile shaft completely. On the other hand, concrete spacers will be fixed to the cage to maintain concrete cover as well as to center the cage in the hole, the cage will be anchored to the steel casing by mean of hook bars (hungers) welded to the casing, these hungers will be sufficient in number and diameter to carry the cages. The cage will be in accordance with the final drawings and project specification. The reinforcement steel bars will be weldable grade 60.

-
7. Lowering of the steel cage will be followed by the installation of (8) inches diameter tremie pipe. The tremie pipe is placed by means of a service crane approximately 300mm above the base of the pile, and a steel plate is placed at the tremie hopper before the concrete is discharged, then will be pulled out by means of a rope without any interruption to concrete supply just before the hopper is full. The length of the tremie will be reduced as the concrete is being placed. The lower end of the tremie pipe remains submerged in concrete throughout the process and the drilling fluid is displaced upwards by the concrete forming the pile shaft. The concrete used will be in accordance with project specification have 20 to 22cm slump.
 8. The temporary casing will be withdrawn from the ground immediately after the completion of concreting and after cutting the suspended reinforcement cage.
 9. The pile load test on piles shall be carried out in accordance with the Egyptian code of practice (part 4) or the ASTM D-1143 (for Compression tests) using Kentledge system as reaction.
 10. All working piles will be tested using low strain dynamic tests (integrity test) by an independent firm, all reports, results interpretation will be submitted to the Engineer for approval.
 11. **Tolerance:** the pile will be considered acceptable of the following tolerance are met:
 - Deviation of pile position at any direction at working platform = 75mm
 - Pile verticality = 1.5 %
 - Sand content of the bentonite sample before concreting $\leq 4\%$.

IV. Budget Cost:

The budgetary rates and prices in the below Bill of Quantities are for Works as described in this budgetary offer. Should any variation in scope of Work, time schedule and /or soil condition are encountered, our budgetary rates & prices are found to be no longer applicable, new rates and prices shall be agreed upon before the varied Work begin.

Meanwhile, the total amount of work will be calculated according to the final quantities of Work executed at the site according to the actual cost on Oracle system.

No.	Description	Unit	Qty	Unit (US\$)	Total Price
					US\$
1) Piling Work					
1.10	Mobilization & Demobilization of Equipment and site installation	EA	4	25,000	100,000
1.20	800mm , Bored Pile Installation, including drilling, pouring concrete and cage fabrication	LM	7,499	170	1,274,830
1.30	1000mm , Bored Pile Installation, including drilling, pouring concrete and cage fabrication	LM	7,619	180	1,371,420
1.40	1200mm , Bored Pile Installation, including drilling, pouring concrete and cage fabrication	LM	3,385	200	677,000
1.50	Preliminary Pile Load Compression Test up to 1200 ton	No.	1	26,250	Rate only
1.60	Working Pile Load Compression Test up to 1000 ton	No.	1	18,000	Rate only
1.70	Integrity Pile load Test	No.	878	22	19,316
1.80	Standby Rate (Rig/Shift)	No.	Rig/Shift	3,000	Rate only
2) Sheet Pile Walls					
2.10	Driving of Sheet Pile Wall by Vibratory Hammers	Ton	1	3,000	Rate only
2.20	Extraction of Sheet Pile Wall	Ton	1	1,500	Rate only
Total Amount (US\$)					3,442,566

Basis of budgetary Prices:

The above budgetary prices are based on workmanship only, considering the below:

- The materials are excluded from our prices and to be supplied by Others.

V. Commercial Conditions:

1. Prior to start the piling works, a dry well compacted and levelled working platform will be provided to us free of charge at the required level. The compacted material will be approximate 25cm thick of dolomite materials or equivalent to withstand the stress imposed by our equipment (2.00 Kg/cm²). The site shall be free of all overhead, underground obstruction and shall have no walls, embankment or other obstacles (Cables, Trees,.....etc.) closer from any pile position.
2. It is required to provide the following services at site free of charge:
 - a) Potable water supply for bentonite mixing.
 - b) Official bench marks.
 - c) Site protection.
 - d) Supporting, disconnecting and/or diverting of the existing utilities "Water pipes, gas pipes, electric cables," this is supposed to be done by the client.
 - e) Arranging all licenses, building permit, NOC permits and approval from the relevant authorities / neighbours and third parties allowing for our work to proceed without any interruption.
 - f) Necessary permits to allow our work to proceed day and night (24 hours/day).
 - g) Provide suitable access road to the Job Site and to the working areas within the Site for personnel, Plant and Equipment.
 - h) Enough space at the work area to set up our equipment, offices and bentonite tanks as well as to stock the excavated material to be dried and then transported to the damping area by others.
3. Our prices exclude the following items which will be provided by others free of charge, and in time not to interrupt our works:

3.1. General / Contractual

- a) Any soil investigation required for the design works.
- b) Any pertinent design or Shop drawings.
- c) Any dewatering required at site.
- d) Any earthworks.
- e) All material testing required by Employer/Engineer, including but not limited to all tests to be carried out by independent lab, etc.

-
- f) Instrumentations/dilapidation survey for monitoring the existing surrounding utilities or structures (if required).
 - g) Value added taxes (VAT) on contracting service.
 - h) Decennial liability insurance of the work.
 - i) Third party, professional indemnity insurance and contracting all risk insurance and any other kind of insurance required by the contract documents. We will be only responsible to submit insurance policy covering all our equipment and labour at site.
 - j) HSE equipment, site safety signs, fire extinguishers, pollution and dust control with cooperation with our Safety officers. We are allowing only for PPE for our Staff, labours, Equipment and Plant.
 - k) Any allowance for facilities to the Employer, and Engineer.
 - l) First aid facilities including medical care supply.

3.2. Specific / Technical

- a) Ready-mix concrete including waste, according to the project specification; and to be delivered to each pile position.
 - b) Steel reinforcement rebar including waste, according to the project specification and your final design, to be delivered at our steel yard. We will be responsible for manufacturing of the pile cages as per approved drawing. Meanwhile, we considered in our prices that the steel ratio is 100 Kg/cubic meter, additional charge will be applicable for manufacturing any extra tonnages.
- a) Permanent casing/Liner, (If required).
 - b) Pile trimming or head treatment.
4. Our budgetary unit rates are based on fuel current market price, should any increases in the market prices occur, we will charge you with the difference.
 5. Our unit prices consider withholding taxes (0.5%) and social insurance taxes (1.8%).
 6. The length of piles which payment would be invoiced is measured from the working platform level, the pile tip level. While all other items shall be according to the above BOQ.
 7. Construction drawings showing layout and alignment shall be provided to us.
 8. Our budgetary unit prices and schedule are based on drilling into normal soil. In case of encountering hard soil, boulders, cobbles; we will use rock auger and/or rock barrel. Then, our budgetary unit rates will not be any more applicable, and new rates as well as an extension in time schedule to be mutually agreed.

VI. Schedule

We would carry out this work within **Four** weeks for the installation of bored piles, including equipment mobilization, site installation works and excluding the On-shore preliminary pile load test which is supposed to be executed at early stage parallel to the pile production

We will be granted to work continuously 6 days/week & 24 hours/day. Any delay out of our control due to the employers/other contractors, the idle time cost will be charged to you and an extension of time related to these delays will be added to our schedule.

The above schedule starts from whichever is later of the following dates:

- a) Signing the contract
- b) Receiving the advance payment.
- c) The site ready for works.
- d) Receiving the final drawings.
- e) Getting the necessary permits for our staff and equipment to enter site.

VII. Terms of payment

- a) 25% of the total amount of the contract to be paid in advance upon signing the contract.
- b) 100% of our monthly invoices after deducting the advance payment, to be paid within 30 days of submission.

VIII. Equipment:

The following equipment will be provided for the scope of work:

- a) Four Piling Rig "Bauer/Soilmec" or equivalent
- b) Four Service Cranes, Capacity sufficient to handle the tremie pipe for concreting and the installation of the reinforcement cages...
- c) Loader(s)
- d) Bentonite mixer
- e) Auxiliary equipment(s).

الشركة الحربية للأساسات

فيبرو

ش.م.م.ت

المركز الرئيسي / ٥ ش قصر النيل - القاهرة

VIBRO

ARABIC Co. FOR FOUNDATIONS

Cairo - Egypt
5 Kaser El Nile St.,



إحدى الشركات التابعة للشركة القابضة للتشييد والتعمير ش.م.م.ت

قناطر ديروط بأسبوط

صادر: ٤٠ / ع

تاريخ: ١٢ / ١٢ / ٢٠١٦

شركة: سانيبو للإنشاءات

السيد المهندس / وليم

تحية طيبة وبعد،،،

إيماء إلى طلب سيادتكم بتقديم عرض سعر تنفيذ أعمال الخوازيق للمشروع عاليه للمشاركة في دراسته الجدوي - نتشرف بان نرفق طيه عرض اسعار أعمال الخوازيق ببناء على المواصفات والكميات المذكوره بالمقاييسه المرفقه .
نحيط سيادتكم علما بان الاسعار المذكوره بعاليه تشمل التنفيذ باليابس فقط بعد قيام سيادتكم بردم الموقع وتسويته .

أولا : بيان بالكميات والمواصفات والشروط الخاصة بهذا العطاء :

- ١ - بالمقطوعية تكاليف نقل الماكينة والمعدات المساعدة الى موقع المشروع واعادتها مره واحده بعد نهو الاعمال بفترة وقدرها ٢٠٠٠٠٠ جنيه (مانتان الف جنيها) للماكينة الواحدة .
- ٢ - بالمتر الطولي مصنعية تنفيذ حوالي ١٨٠ خازوق بالتفريغ طراز الحفر الدوار قطر ٨٠ سم وبطول ١٢,٨ .
١٤,٢ متر ومسلحه بتفقيصه حديدية مكونه من ١٥ سيخ قطر ٢٢ مم صلب عالي المقاومة وكرانات حلزونية قطر ٨ مم كل ١٥ اسم واطواق داخلية قطر ٢٢ مم كل ٢ متر صلب عادي المقاومة وذلك بسعر المتر الطولى ١٠٠٠ جنيه (الف جنيها) .
- ٣ - بالمتر الطولى مصنعية تنفيذ حوالي ١٦٢ خازوق بالتفريغ طراز الحفر الدوار قطر ٩٠ سم وبأطوال ١١,٢ ، ١٥,٣ .
ومسلحه بتفقيصه حديدية مكونه من ١٨ سيخ قطر ٢٢ مم صلب عالي المقاومة وكرانات حلزونية قطر ١٦ مم كل ١٠ اسم واطواق داخلية قطر ٢٢ مم كل ٣ متر صلب عادي المقاومة وذلك بسعر المتر الطولى ١١٠٠ جنيه (الف ومائه جنيها) .
- ٤ - بالمتر الطولى مصنعية تنفيذ حوالي ١٧٦ خازوق بالتفريغ طراز الحفر الدوار قطر ١٠٠ سم وبأطوال ٨,٨ ، ١٢,٨ ، ١٣,٨ .
ومسلحه بتفقيصه حديدية مكونه من ٢٢ سيخ قطر ٢٢ مم صلب عالي المقاومة وكرانات حلزونية قطر ١٦ مم كل ١٠ اسم واطواق داخلية قطر ٢٢ مم كل ٣ متر صلب عادي المقاومة وذلك بسعر المتر الطولى ١٣٠٠ جنيه (الف وثلثائه جنيها) .
- ٥ - بالمتر الطولى مصنعية تنفيذ حوالي ١٩٢ خازوق بالتفريغ طراز الحفر الدوار قطر ١١٠ سم وبأطوال ٧,٣ ، ٨,٣ ، ١٣,٣ ، ١٤,٣ .
ومسلحه بتفقيصه حديدية مكونه من ٢٧ سيخ قطر ٢٢ مم صلب عالي المقاومة وكرانات حلزونية قطر ١٦ مم كل ١٠ اسم واطواق داخلية قطر ٢٢ مم كل ٣ متر صلب عادي المقاومة وذلك بسعر المتر الطولى ١٤٥٠ جنيه (الف واربعمائه وخمسون جنيها) .
- ٦ - بالمتر الطولى مصنعية تنفيذ حوالي ١٦٨ خازوق بالتفريغ طراز الحفر الدوار قطر ١٢٠ سم وبأطوال ٧,٣ ، ٧,٨ ، ١٢,٣ ، ١٤,٨ .
ومسلحه بتفقيصه حديدية مكونه من ٣٢ سيخ قطر ٢٢ مم صلب عالي المقاومة وكرانات حلزونية قطر ١٦ مم كل ١٠ اسم واطواق داخلية قطر ٢٢ مم كل ٣ متر صلب عادي المقاومة وذلك بسعر المتر الطولى ١٦٠٠ جنيه (الف وستمائه جنيها) .

المركز الرئيسي / ٥ ش قصر النيل - القاهرة تليفاكس / ٢٥٧٤٣٧٨٢ / ٢٠٢ E-mail:vibrocairo@yahoo.com

الشنون المالية والإدارية / ٣٣ (أ) شارع ٢٦ يوليو - القاهرة تليفون / ٢٥٧٥٠٨١٧ - فاكس / ٢٠٢ / ٢٧٧٣٥٠٤٦

فرع الإسكندرية / ١٦ ش فوزى فهمى جندى - العطارين تليفاكس / ٤٨٦٤٧٨٦ / ٢٠٢ E-mail:vibroeg@yahoo.com

www.vibro.com.eg

VIBRO

ARABIC Co. FOR FOUNDATIONS

Cairo - Egypt
5 Kaser El Nile St.,



الشركة العربية للأساسات

فيبرو

ش.م.م.ت

المركز الرئيسي / ٥ ش قصر النيل - القاهرة

إحدى الشركات التابعة للشركة القابضة للتشييد والتعمير ش.م.م.ت

(٢)

٥: الأسعار عاليه تشمل :-

- حفر الخازوق .
- صب الخرسانة الجاهزة .
- تنزيل التقافيص الحديدية .
- الأسعار لا تشمل أى اعمال لم ينص عليها صراحة بالعبء .
- المحاسبة على قياس اطوال الخوازيق من منسوب وقوف الماكينة وحتى قاع الحفر للخازوق .
- ٧- في حالة طلبكم اجراء تجارب جس صوتى على الخوازيق يتم المحاسبه على فئة التجربة الواحده ٢٠٠ جنيه (مانتان جنيها) على الاقل الزياره عن ٥٠٠٠ جنيه (خمساه الافا جنيها) .
- ٨- اسعار مواد الخازوق (الوقود- الزيوت- الاجور- وخلافه) طبقا لاسعار السوق السائده وقت تقديم هذا العبء وفي حالة زياده الاسعار بحق لنا المطالبه بفروق الاسعار وصرافها .
- ٩- الحفر فى طبقات عاديه (رملية- طينية) وفى حالة الحفر فى طبقات (متحجرة- حجر جيرى- طبقات صخرية- طبقات عاليه المقاومه) يتم احتساب علاوة اختراق يتم الاتفاق عليها فى حينه .
- ١٠- بحق لشركتنا نقل جميع الادوات والمهمات والالات الموجوده بالموقع فور الانتهاء من تنفيذ اعمال الخوازيق .
- ١١- فى حالة الحاجة لنقل الماكينه والمعدات المساعدة بين المحاور باستخدام تrolات او كساحات (نقل داخلى) فسيتم المحاسبه على فئة قدرها ٢٥٠٠٠ جنيه (خمسة وعشرون الف) للماكينه الواحدة للنقله الواحدة او يتم النقل بمعرفة وعلى حساب سيادتكم .
- ١٢- مدة تنفيذ الخوازيق طبقا للبرنامج الزمنى للمشروع والمعتمد من الطرفين ويبدأ من تنفيذ اول خازوق الذى يبدأ بعد التوقيع على العقد او دفع الدفعة المقدمة او تسليم الموقع بكامل مساحته جاهز للعمل او اعتماد الرسومات التنفيذية النهائية والتعليمات الفنية ايهم لاحق .
- ١٣- يتم تسليمنا مجموعه كامله من الرسومات التنفيذية النهائية المعتمده للتنفيذ بموجبها .
- ١٤- يتم تنفيذ الخوازيق طبقا للمواصفات المذكورة فى الكود المصرى للتربة والاساسات لسنة ٢٠٠١ .
- ١٥- الاسعار لا تشمل التقويات والتعويضات للمرافق أو أى أعمال لم ينص عليها صراحة بالعبء .

التزامات شركتكم :

- ١- يتم تسليمنا كل الطرق والممرات الموصلة الى الموقع محفور على المنسوب المراد التنفيذ منه بحيث تسمح دخول وخروج المعدات وتركيبها وازالة طبقة الاسفلت ان وجدت وكذلك تسليمنا الموقع بكامل مساحته جافا ومستويا وصلبا ومردوم بطبقة من الدقشوم لا تقل عن ٣٠ سم فى حالة الحاجة ومدموك دمكا جيدا وصالحا لتحرك وتحمل ثقل الماكينه وخاليا من المرافق او التشوينات او أى عوائق ظاهرة او غير ظاهرة تمنع او تعوق تنفيذ الخوازيق او مناورة الماكينه وعلى منسوب يعطو المياه الجوفيه بما لا يقل عن ١ متر ان وجدت مع تجهيز وتسوية الموقع بعرض كافى للتشغيل وتسليمنا محورين رئيسين متعامدين ونقطة ثابتة للصفر الاعتبارى كما نقومون بتجهيز الطرق اللازمة لتسهيل وصول الماكينه والمعدات للموقع واعادتها بامان وعمل السور المؤقت حول الموقع فى حالة الحاجة

المركز الرئيسى / ٥ ش قصر النيل - القاهرة تليفاكس / ٢٥٧٤٣٧٨٢ / ٠٢ / E-mail:vibrocairo@yahoo.com

الشتون المالية والإدارية / ٢٣ (أ) شارع ٢٦ يوليو - القاهرة تليضون / ٠٢/٢٥٧٥٠٨١٧ فاكس / ٠٢/٢٧٢٣٥٠٤٦

فرع الإسكندرية / ١٦ ش فوزى فهمى جندى - العطارين تليفاكس / ٠٣/٤٨٦٤٧٨٦ / E-mail:vibroeg@yahoo.com

www.vibro.com.eg

الشركة العربية للأساسات

فيبرو

ش.م.م.ت

المركز الرئيسى / ٥ ش قصر النيل - القاهرة

VIBRO

ARABIC Co. FOR FOUNDATIONS

Cairo - Egypt
5 Kaser El Nile St.,



إحدى الشركات التابعة للشركة القابضة للتشييد والتعمير ش.م.م.ت

(٣)

- ٢- توفير مصدرى المياه والكهرباء لنقطة متوسطة داخل موقع عمل الماكينة والمعدات مع تحملكم قيمة الاستهلاك
 - ٣- توفير مكان مناسب للتشوينات وورشة الحديد بمعرفتكم وعلى حسابكم داخل موقع العمل دون ادنى تكلفة علينا .
 - ٤- استخراج جميع التصاريح والتراخيص اللازمة لتنفيذ الاعمال بالموقع قبل بداية العمل وكذلك التصاريح والتراخيص اللازمة للعمل ليلا وعمل اللافات الاسترشادية والانارة اللازمة لسلامة المرور بمعرفتكم وعلى حسابكم .
 - ٥- تحديد اماكن جميع المرافق العامة على الطبيعة من (مواسير المياه او كابلات كهربائية او صرف صحى او تليفونات وخلافه) وتسليمنا اللوح الاسترشادية لها وتكون مسؤولية شركتنا المحافظة عليها فقط وفى حالة وجود تعارض بين المرافق واماكن الخوازيق تقوم شركتكم بتعديل رسم الخوازيق واعتماده .
 - ٦- فى حالة ظهور عوائق او اساسات قديمة اسفل الموقع قد تعوق تنفيذ الاعمال موضع هذا العطاء سيتم تطهيرها وازالة مخلفاتها بمعرفتكم وعلى حسابكم .
 - ٧- توفير جهاز اشراف لموقع العمل طوال مدة التنفيذ واثاء العمل ليلا او فى غير مواعيد العمل الرسمية وبدون خصم اى مبلغ من مستحقاتنا لدى سيادتكم نظير ذلك .
- المحاسبية :-
- ١- ستتم المحاسبية بناء على الكميات المنفذة فعلا فى الطبيعة والزيادة او النقص فى الكميات يكون فى حدود ٢٥% (خمسة وعشرون فى المائة) .
 - ٢- يتم صرف دفعة مقدمة قدرها ٢٠% (عشرون فى المائة) من قيمة العطاء ويتم تسويتها بالمستخلصات النصف شهرية بنفس النسبة .
 - ٣- يتم صرف ما قيمته ١٠٠% (مائة فى المائة) من قيمة الاعمال التى تم تنفيذها بموجب مستخلصات نصف شهرية على ان يتم حجز ٥% (خمسة فى المائة) من قيمة الاعمال المنفذة كضمان اعمال وصرف ٩٥% (خمسة وتسعون فى المائة) من قيمة الاعمال المتبقيه بالكامل من قيمة الاعمال خلال ٧ ايام من تاريخ تقديم المستخلص وتصرف خلال ٧ ايام من تاريخ تقديمها كحد اقصى دون الارتباط بالصرف من رب العمل وفى حالة تاخر الصرف تضاف المدة الى مدة التنفيذ مع تحملكم جميع الاعباء الناتجة عن التأخير .
 - ٤- يصرف ال ٥% (خمسة فى المائة) من قيمة الاعمال المنفذة والسابق حجزها وكذا جميع مستحقاتنا فور التسليم الابتدائى لاعمال الخوازيق والذى يتم بمجرد الانتهاء من تنفيذ الخوازيق موضوع هذا العطاء ونجاح تجارب التحميل ان وجدت دون الارتباط بالصرف من رب العمل .
 - ٥- يرد ال ٥% (خمسة فى المائة) خطاب ضمان التامين النهائى بعد عام من تاريخ تسليمنا لشركتكم ابتدائيا اعمال هذا العطاء دون الارتباط بالصرف من رب العمل .
 - ٦- يحق لنا تعويضا عن المصاريف التى تتكبدها شركتنا اذا توقفت الماكينة عن العمل بسبب يرجع لكم مثل (عدم تجهيز مناطق العمل او الطرق المؤدية للموقع - تعديل المحاور الرئيسية او الرسومات التنفيذية - عدم استخراج التصاريح والتراخيص - عدم اعتماد الرسومات التنفيذية النهائية - التأخير فى توريد مواد الخازوق من خرسانة وحديد تسليح المصنع - ظهور عوائق يلزم تطهيرها ايقاف المعدات - اى اعطال اخرى غير منتظرة) اى توقف لا يرجع لشركتنا و قدره ١٠٠٠٠٠ جنيه (عشرة الاف) للماكينة عن كل يوم يتعطل فيه العمل مع اضافة مدة التوقف لمدة التنفيذ وفى حالة توقف

المركز الرئيسى / ٥ ش قصر النيل - القاهرة تليفاكس / ٢٥٧٤٣٧٨٢ / ٠٢ E-mail:vibrocairo@yahoo.com

الشنون المالية والإدارية / ٣٣ (أ) شارع ٢٦ يوليو - القاهرة تليفون / ٠٢/٢٥٧٥٠٨١٧ فاكس / ٠٢/٢٧٧٢٥٠٤٦

فرع الإسكندرية / ١٦ ش فوزى فهمى جندى - العطارين تليفاكس / ٠٣/٤٨٦٤٧٨٦ E-mail:vibroeg@yahoo.com

www.vibro.com.eg

VIBRO

ARABIC Co. FOR FOUNDATIONS

Cairo - Egypt
5 Kaser El Nile St.,



الشركة العربية للأساسات
فيبرو

ش.م.م.ت

المركز الرئيسي / ٥ ش قصر النيل - القاهرة

إحدى الشركات التابعة للشركة القابضة للتشييد والتعمير ش.م.م.ت

(٤)

- ٧- الماكينة والمعدات عن العمل لمدة ١٠ ايام متواصلة يتم رفع الماكينة والمعدات ثم اعادتها مرة اخرى (ذهاب وعودة) بلفة ١٠٠٠٠٠٠ جنيه (مائة الف جنيها) أو على حساب سيادتكم .
- الاستلام الابتدائي للاعمال فور الانتهاء من تنفيذ الخوازيق ونجاح تجارب التحميل ان وجدت .
 - الاستلام النهائي بعد مرور عام من تاريخ التسليم الابتدائي .
 - الاسعار لا تشمل ضريبة القيمة المضافة حيث تقومون سيادتكم بتحمل قيمة هذه الضريبة وتشمل ٥ . ٠ % ضريبه الارباح التجارية فقط
 - مدة سريان العرض اسبوعين من تاريخه
- نرجو أن يحوز هذا العرض قبولكم
وتفضلوا بقبول فائق الاحترام ...

مدير عام العطاءات والتعاقدات

مهندسة / 

شادية شاهين

المركز الرئيسي / ٥ ش قصر النيل - القاهرة تليفاكس / ٢٥٧٤٣٧٨٢ / ٢ / E-mail:vibrocairo@yahoo.com

الشئون المالية والإدارية / ٢٢ (أ) شارع ٢٦ يوليو - القاهرة تليضون / ٢٥٧٥٠٨١٢ / ٢ / فاكس / ٢٥٧٢٥٠٤٦ / ٢

فرع الإسكندرية / ١٦ ش فوزى فهمى جندي - العطارين تليفاكس / ٤٨٦٤٧٨٦ / ٢ / E-mail:vibroeg@yahoo.com

www.vibro.com.eg

E-11-3. Barge

الموضوع : ايجار البانتون + حفار بذراع طويل

السيارة فلاب للعمل بموقع بحر يوسف

وترعة الايراشبية بديروط

السادة شركة / Sanyu consultant

تحية طيبة وبعد ...

بالإشارة الى الموضوع اعلاه نتشرف بأن نقدم لسيادتك عرض اسعارنا كالتالى :-

- القيمة الاجارية للحفار بذراع طويل والبانتون المطلوب هي 8500 جنيه / يوم (فقط ثمانى الاف وخمسمائة جنيه لا غير / يوم)
- القيمة الاجارية للسيارة الفلاب 2600 جنيه / يوم (فقط الفان وستمائة جنيه لا غير / يوم)
- تكلفة نقل المعدات الى موقع العمل ذهاب وعودة 115000 جنيه (فقط مائة وخمسة عشرة الف جنيه لا غير)
- توفير الوقود اللازم للمعدات بموقع عمل مسئولية سيادتكم وعلى حسابكم .
- توفير مصدر كهرباء اثناء فترة تجميع البانتون .
- توفير الاقامة والاعاشة لطاقم العمل .
- صلاحية العرض لمدة شهر اعتبارا من تاريخه (حتى 2017/2/11)
- يتم دفع دفعة مقدمة مقدارها 15% من اجمالى حجم العمل .

نأمل ان يحوز عرضنا القبول لدى سيادتكم

وتفضلوا بقبول وافر الاحترام والتقدير ...



مدير عام الشركة



مهندس /
عبد المجيد الجوهري

Main Office & Sales Dep : 5 El Somai St. - El Korba - Heliopolis - Cairo - Egypt
Phone : +202 2415 5388 - +202 2415 5386 - +202 2415 4922 - +202 2415 4923
Fax : +202 2415 5001 P.O.Box : 188 Heliopolis
Stores : 10 th 6 October St. - Shoupra El Khema
Phone : +202 4222 8354 Chiry

الإدارة والمبيعات : شارع الصومال - القومية - مصر الجديدة - القاهرة - مصر
تليفون : +202 2415 5388 - +202 2415 5386 - +202 2415 4922 - +202 2415 4923
فاكس : +202 2415 5001 ص.ب. 188 هليوبوليس
المخازن : 10 شارع 6 أكتوبر - شوبرا الخيمة
تليفون : +202 4222 8354

Date: January 11, 2017

Messrs.: Sanyu Consultants Inc.

Sirs,

Referring to your request for hiring one barge, one long arm backhoe and one dump truck, pls. find below offer:

1- Long arm backhoe	2,250 EGP/day
2- Barge	7,000 EGP/day
3- Dump Truck 10m ³	2,600 EGP/day
4- Barge and D/Truck as one unit	8,500 EGP/day
5- Mobilization to/from Dayrut	115,000 EGP

The surface area and load of barge is enough to carry the long arm backhoe and the dump truck in the order of operation.

Conditions:

1. Sanyu Consultants will supply fuel for backhoe and dump truck.
2. Sanyu Consultants will supply (3) phase electric source during assembling the barge.
3. Sanyu Consultants will provide accommodation, food supplies and substances.
4. 15% expected contract amount shall pay in advance.

General Manager
Abdel Meguid Gohary

Date: 12/1/2017

To: Sanyu Consultants Inc.
C/O: Mr.Kadowaki

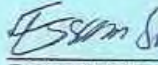
Offer for Barge Capacity 70 ton

Sir,

We are pleased to send our quotation for supplying Barge to join the project at Dayrut-Assuit with following specification and conditions:

- Barge capacity 70 ton
- Barge deck area up to 96 m2
- Rental cost/day 9,200 LE
- Mobilization & Demobilization 100,000 LE
- Facilities shall arrange by your side:
 - a) Electric source for assembling and disassembling
 - b) Accommodation and food for our technicians
 - c) Transportation and commutation from accommodation to/from Cairo and from/to site
 - d) Rental period not less one month
 - e) Advance payment 200,000 LE to be deducted each progress payment.
 - f) Validity: two months.

With My Best wishes,


Esam Shalaby
Logistics Manager



E-11-4. Import clearance and Transportation charges

To:	Sanyu Consultant	From :	Mr. Hossam Fathi
Att.:	Mr. Masanabu Kadowaki	Date :	Jan,01st 2017
Fax :		E-mail	hosshoss@gmail.com
Phone :	+2012-80214-247	Sub :	Quotation for Customs Clearance

Dear
Sir,
We
Trust

Trust Trans Shipping Co. have the honor to submit you our quotation for your Import shipment as follows

Import clearance & Transportation charges at Alexandria Port:-

Description	Specification	Unit	Unit Price (LE)	Remarks
Port discharge fee	General Cargo	F/T	150.00	
Customs clearance Minimum	General Cargo	F/T	50.00 3000.00/ship	
Transportation cost	General Cargo (Alexandria to Dirout)	F/T	450.00	
Transportation cost	General Cargo (Cairo to Dirout)	F/T	350.00	
Transportation cost	for heavy equipment (Cairo to Dirout), 30t	unit	8250.00	
Transportation cost	for heavy equipment (Cairo to Dirout), 40t	unit	9700.00	
Transportation cost	for heavy equipment (Cairo to Dirout), 50t	unit	11000.00	
Transportation cost	(Cairo to Dirout), 40t	Low Bed	35.000/ Low bed	7 X 3.45 X 3 M

**Cairo Office : 15 Elshaheed Sayed Zakaria
st., Sheraton Bld., Heliopolis, Cairo, Egypt.**
Tel. : +202 2266 60 34
Fax : +202 2266 60 35
Mob.: +2 011 6557 668
info@trusttrans.net

**China Office : Flat 201, Unit 1,
No. 5 building, Fucheng District,
Yiwu City, China.**
Tel - fax : 0086 - 0579 - 8511 2623
Yiwu Mob. : 0086 - 1324 8474 998
www.trusttrans.net

General Conditions: -

- Above rates valid for general cargo only non-hazards cargo
- Above rates excluding any official receipts (Duty, Storage, Tax, DO, THC, road Receipts,etc)
- Above rates subject to 13% VAT up to end of Jun,2017 and will 14% from 1st of July,2017
- Any wooden Pallets of boxes should be fumigated and stamped
- Unloading at site is out of our scope
- Above rates excluding road and bridge permissions and traffic permissions,
- Above rates Excluding road receipts & Toll station fees (Karat)
- Any other fees or charges required will inform you on time of operation
- Above rates valid to end of March 2017
- Above transportation rate based on current Solar rate and any increasing in solar Market rate our quotation will be changed accordingly

N.B It is our pleasure to cooperate and handle operation from Door to Door including the ocean freight from origin to destination port

Hoping that the above rate gains your satisfaction and your kind approvals

Kindest Regards,

Hossam Fathi

Commercial Manager

+2-012-80-214-247

E-11-5. Well Point



المهندس / مدير مشروع قناطر ديروط الجديدة

مركبة مازيو الامتخارية للمقاول

تحية طيبة وبعد ،

نتشرف ان نقدم لسيادتك عرض أسعارنا عن أعمال النزح الجوفى بنظام الحراجه بالمشروع عالية طبقا

للبيانات الفنية الواردة اليها عن الاعمال المطلوب تنفيذها وبيانه كالاتي :

أولا : البيانات الفنية الواردة اليها من سيادتك :

- تصميم نظام النزح الجوفى لموقعين بنظام النقاط الابرية (الحرب) .
- اعمال النزح الجوفى لموقع عليه عدد (٧٦ حربة) .
- اعمال النزح الجوفى لموقع عليه عدد (١٢٤ حربة) .

ثانيا : جدول بنود الاعمال والفئات .

م	منطقه بند الاعمال	الوحدة	الكمية	الفئة	الاجمالي
اولا	تغطية الموجه الاول بحدود (٧٦ حربة) .				
١	بالمقصود تكلفة أعمال تحميل ونقل معدات التحفيل بنظام الحراب ونقل خطوط الطرد ومواسير السحب والحراجه والطلميات المنزل وطلميات غرز الحراب او التخرم حسب طبيعة التربة اثناء التنفيذ وذلك ذهاب وعودة والفئة تشمل تجهيز وتركيب دائرة التحفيل وفكها بعد انتهاء الاعمال وذلك لزوم اعمال تحفيل مبنى عدد (٧٦) حربة طبقا للتصميم المرسل لنا وايضا تكلفة نقل خط طرد في حدود ١٠٠ متر طول وذلك إلى موقع المشروع باسيوط والفئة تشمل تنفيذ البند طبقا لاصول الصناعة وتعليمات المهندس المشرف.	مقطوعة	١	١٢٥٠٠٠	١٢٥٠٠٠
٢	باليوم تكلفة تشغيل اعمال التحفيل بنظام النقاط الابرية لعدد (٧٦ حربة) والفئة تشمل تشغيل الطلمبات المنزل شاملة السولار اللازم للتشغيل ٢٤ ساعة يوميا والعناية الفنية اللازمة للتشغيل طوال مدة تنفيذ الاعمال طبقا لاصول الصناعة وتعليمات المهندس المشرف	يوم	٠	٦٥٠٠	٦٥٠٠

شركة رمسيس للطلميات
شركة مصرية



م	منطوق بند الأعمال	الوحدة	القيمة	الفترة	الإجمالي
ثانيا	تكلفة الموضع الثاني وحدد (١٢٤ حربة) .				
١	بالمقطوعية تكلفة أعمال تحميل ونقل معدات التحفيف بنظام الحراب ونقل خطوط الطرد ومواسير السحب والخراب والطلبات المنزل وطلبات غرز الحراب او التخريم حسب طبيعة التربة اثناء التنفيذ وذلك ذهاب وعودة والفترة تشمل تجهيز وتركيب دائرة التحفيف وفكها بعد انتهاء الاعمال وذلك لزوم اعمال تحفيف مبنى عدد (١٢٤) حربة طبقا للتصميم المرسل لنا وايضا تكلفة نقل خط طرد في حدود ١٠٠ متر طولي وذلك الى موقع المشروع باسيوط والفترة تشمل تنفيذ البند طبقا لاصول الصناعة وتعليقات المهندس المشرف.	مقطوعية	١	٢٢٥٠٠٠	٢٢٥٠٠٠
٢	باليوم تكلفة تشغيل اعمال التحفيف بنظام التقط الابرية لعهد (١٢٤ حربة) والفترة تشمل تشغيل الطلبات المنزل شاملة السولار اللازم للتشغيل ٢٤ ساعة يوميا والعمالة الفنية اللازمة للتشغيل طوال مدة تنفيذ الاعمال وطبقاً لاصول الصناعة وتعليقات المهندس المشرف.	يوم	٠	١٢٥٠٠	١٢٥٠٠

شروط اضافية :-

- ١- تسليمنا الموقع خالي من اى عوائق ..
 - ٢- توفير ونهر او معدة مناسبة للمساعدة في اعمال التحميل والتفريغ .
 - ٣- حمل التصاريح اللازمة للعمل ليلا ونهارا طوال مدة تنفيذ الاعمال .
 - ٤- حمل التصاريح اللازمة لترتيب خطوط الطرد والمسافة لا تزيد عن ١٠٠ متر طولي .
 - ٥- صرفه دفعة مقدمه بنسبة ٢٥ % من عرض اعمارنا .
 - ٦- يتم عمل مستخلصات حصرية بالاعمال التي يتم تنفيذها اولا باول .
- وتفضلوا سيادتكم بقبول فائق الاحترام

المدير المسئول

صمير قاسموس

شركة رمسيس للطلبات
شركة رمسيس للطلبات

RAMSSES PUMP CO.

S.A.E

To: Manager of Dayrut Regulators Project
Sanyu Consultants Inc.

Dears,

We have the honor to submit our quotation for the well point system based on your sent data:

1. Two sites dewatering by well point sys. 67 wells and 124 wells.
2. BOQ

No	Item	Unit	Unit Price (EGP)	Total (EGP)
1	Site No.1 (76 wells): Loading, transportation of dewatering equipment, suction pipes and discharge pipes, pumps to Dayrut-Assuit considering the length of discharge pipe not more 100m	L.S	125,000	125,000
2	Daily operation and control for 76 wells	Day	6,500	6,500
3	Site No.2 (124 wells): Loading, transportation of dewatering equipment, suction pipes and discharge pipes, pumps to Dayrut-Assuit considering the length of discharge pipe not more 100m	L.S	225,000	225,000
	Daily operation and control for 124 wells	Day	12,500	12,500

3. Offer conditions
 - Handing over site free from any obstacles
 - Provide crane for loading and unloading.
 - Provide necessary permissions for discharging the water to distance not more 150m.
 - 25% expected work amount in advance.
 - Monthly payment against invoice based on the executed works during month.



File No. : رقم الملف

Dept. : إدارة

Date : التاريخ

Address : العنوان

السادة / شركة سانيو الاستشارية

تحية طيبة وبعد ،

بالإشارة الى طلب سيادتكم عرض اسعارنا عن اعمال تخفيض المياه الجوفية لمشروع قناطر ديروط الجديدة طبقا لتقرير النزح الجوفى المرسل لنا من سيادتكم بنظام النقط الابرية لعدد (٢) حالة (منهم واحدة تحقيف بعدد ٧٦ حربة والآخرى التحقيف بعدد ١٢٤ حربة) فانه مرسل لسيادتكم عرض اسعارنا طبقا للأسس الفنية الآتية .

اولا : الأسس الفنية التي بنى عليها العرض :-

- ١- تقرير النزح الجوفى بنظام النقط الابرية .
- ٢- الحالة الاولى التحقيف بعدد (٧٦) حربة .
- ٣- الحالة الثانية التحقيف بعدد (١٢٤) حربة .

ثانيا : الاسعار :-١- الحالة الاولى التحقيف بعدد (٧٦ حربة) :-١- متطوق بند النقل والتجهيز بالمقطوعة للحالة الاولى بعدد (٧٦ حربة) :-

١٠٠٠٠٠ (مائة الف جنية لا غير) قيمة تكلفة نقل وتجهيز وفك دائرة التحقيف بنظام النقط الابرية والفئة تشمل حفر النقط الابرية بنظام التخريم وتوريد وعمل الحراب ومواسير السحب والهدرات وخطوط الطرد لا قرب مكان وتجهيز وتوصيل الطلمبات الديزل والعمالة الفنية اللازمة للتجهيز وخطوط السحب والطرد بالكامل وطبقاً للأسس الفنية التي بنى عليها العرض.

٢- تكلفة تشغيل نظام التحقيف بالنقط الابرية في اليوم (٧٦ حربة) .

٥٠٠٠ (فقط خمسة الاف جنية لا غير في اليوم) قيمة تكلفة تشغيل نظام التحقيف بالنقط الابرية في اليوم شاملة تشغيل وصيانة نظام التحقيف بالكامل والطلميات الديزل والعمالة الفنية اللازمة للتشغيل والصيانة ومراقبة مناسيب المياه اثناء التشغيل ومراقبة الأسس الفنية التي بنى عليها العرض .



Main Office : 34 Adly St., Cairo Tel. : 23959500 - 23959522

Fax : 23937674 - Cable: Osmason - email address : arabco4@arabcont.com



المركز الرئيسي ٣٤ ش عدلي - القاهرة تليفون : ٢٣٩٥٩٥٠٠

٢٣٩٥٩٥٢٢ فاكس : ٢٣٩٣٧٦٧٤ تلغرافياً : عثمانسون



File No. : رقم الملف

Dept. : إدارة

Date : التاريخ

Address : العنوان

٢- الحالة الثانية التجفيف بعدد (١٢٤ حربة) .

أ- منطوق بند النقل والتجهيز بالمقطوعة للحالة الثانية بعدد (١٢٤ حربة) :-

١٩٠٠٠٠ (مائة وتسعون ألف جنية لا غير) قيمة تكلفة نقل وتجهيز وفك دائرة التجفيف بنظام النقاط الابرية والفنة تشمل حفر النقاط الابرية بنظام التخريم وتوريد وعمل الحراب ومواسير السحب والهيدرانت وخطوط الطرد لا قرب مكان وتجهيز وتوصيل الطلمبات الديزل والعمالة الفنية اللازمة للتجهيز وخطوط السحب والطرد بالكامل وطبقاً للأسس الفنية التي بنى عليها العرض .

ب- تكلفة تشغيل نظام التجفيف بالنقط الابرية في اليوم (١٢٤ حربة) .

٩٠٠٠ (فقط تسعة الاف جنية لا غير في اليوم) قيمة تكلفة تشغيل نظام التجفيف بالنقط الابرية في اليوم شاملة تشغيل وصيانة نظام التجفيف بالكامل والطلمبات الديزل والعمالة الفنية اللازمة للتشغيل والصيانة ومراقبة مناسيب المياه اثناء التشغيل وطبقاً للأسس الفنية التي بنى عليها العرض .

ثالثا : شروط خاصة :-

- ١- تجهيز الموقع بحيث يكون خالي من العوائق وجاهز للعمل .
- ٢- عمل التصاريح اللازمة لالقاء مياه التجفيف الى أقرب مكان بما لا يتعدى ١٠٠ م بط بمعرفتكم وعلى حسابكم .
- ٣- عمل التصاريح اللازمة للعمل ليلا ونهارا طوال أيام الأسبوع بما فيها الأجازات والعطلات الرسمية بمعرفتكم وعلى حسابكم .

رابعا : شروط الدفع :-

- ١- يتم دفع دفعة مقدمه قدرها ٢٥ % من حجم الأعمال المدرج طبقا لعرض اسعارنا .
- ٢- عمل مستخلصات شهرية لا يتعدى صرفها يوم ٧ من كل شهر .

ولسيادتكم جزيل الشكر

بإدارة الإنشاء والتطوير
وحدة التجفيف
شركة المقاولون العرب
مهندس /
٥٩/٥
عبدالله محمد السيد
وحدة التجفيف
بمعرفة السيد يعقوب

Main Office : 34 Adly St., Cairo Tel. : 23959500 - 23959322

Fax : 23937674 - Cable: Osmason - email address : arabc4@arabcont.com



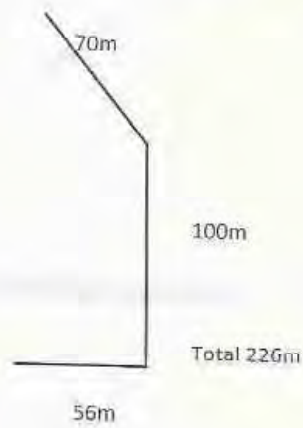
المركز الرئيسي : ٣٤ ش عدلي - القاهرة تليفون : ٢٣٩٥٩٥٠٠

فاكس : ٢٣٩٥٩٥٢٢ تلغرافياً : عثمانسون ٢٣٩٢٧٦٧٤

estimation for wellpoint

Item	Q'ty	spec
1 wellpoint	76 pcs	φ50~
2 pitch(dcd)	3 m	
3 centrifugal pump	2 set	lift 18m φ125mm
3 depth	3 m	
4 riser pipe		φ40
5 vacuum pump	2 set	q = 3.2m ³ /min
generator		50~70KVA ?

Case I:	76 pcs
Case II:	124 pcs



period 12 month
 x 2times =
 24months

Messrs. Sanyu Consultants

Sirs,

With regard to your request to estimate the well point system for The New Dayrut Regulators as for 2 cases: No.1- 76 wells and No.2 124 wells, we are pleased to send our quotation engaged with following conditions:

First: Technical bases

- 1- Received data from you
- 2- Case No.1: 76 wells
- 3- Case No.2: 124 wells

Second: Prices

- | | | |
|--|-----------|-------------|
| 1- Case No.1 | 76 wells | |
| - Mobilization, well excavation, supply and install the wells, and connect pumps | | 100,000 EGP |
| - Daily operation and control | | 5,000 EGP |
| 2- Case No.2 | 124 wells | |
| - Mobilization, well excavation, supply and install the wells, and connect pumps | | 190,000 EGP |
| - Daily operation and control | | 9,000 EGP |

Third: Conditions

- 1- Site free from any obstacles
- 2- Discharge line not more 100m and all permissions for discharge the water is Sanyu responsibility
- 3- 24 hours attending site every day until complete the job (any necessary permissions is yours)

Forth: payment condition

- 1- 25 % contract amount in advance
- 2- Monthly payment

أركونز انجينيرنج

مهندسون- مقاولون

اعمال متكاملة

السيد المهندس / مدير شركة ساتيو الاستشارية للمقاولات

مشروع قناطر ديروط الجديدة

تحتية طبية وبعد ،

بناء على طلب سيادتكم عرض اسعارنا عن أعمال التجفيف بنظام الحراب لعدد (٢) موقع بالمشروع

عالية فأتنا نتشرف ان نقدم لسيادتكم اسعارنا وبيانه كالاتى :

اولا : البيانات الفنية التي وضع بناءا عليها عرض اسعارنا وطبقا لما ورد الينا من سيادتكم :

- تصميم نظام التجفيف بالحراب .
- الموقع الاول بعدد (٧٦) حربة .
- الموقع التالى بعدد (١٢٤) حربة .
- تكلفة النقل والتجهيز بالمقطوعة لكل موقع على حدى .
- تكلفة الضخ باليوم لكل موقع على حدى بالمقطوعة .

ثانيا : جدول الكميات والاسعار

م	بيان الاعمال	الوحدة	الكمية	الفئة	الإجمالى
اولا	الموقع الاول بعدد (٧٦) حربة .				
١	بالمقطوعة تكلفة أعمال تحميل ونقل معدات التجفيف بالنقط الابرية وخطوط الطرد ذهاب وعودة وتجهيز وفك دائرة التجفيف والفئة تشمل نقل الطلمبات الديزل بملحقاتها ومعدات التخريم وتوريد ونقل مواسير السحب السادة والمصاقى وذلك لزوم تنفيذ عدد (٧٦) حربة طبقا للتصميم المرسل لنا وايضا تكلفة نقل خط طرد فى حدود ١٥٠ متر طولى وذلك من مخازننا إلى موقع المشروع بديروط وإعادة الوضع لاصلة بعد انتهاء الأعمال وتنفيذ البند طبقا لاصول الصناعة والفئة محمل عليها تكلفة تركيب والفئة تشمل تجهيز دائرة التجفيف والفك بعد انتهاء الأعمال وإعادة الوضع لاصلة وتنفيذ البند طبقا لاصول الصناعة .	مقطوعة	١	١٥٠٠٠٠	١٥٠٠٠٠
٢	باليوم تكلفة تشغيل نظام التجفيف بالحراب لعدد (٧٦) حربة شاملة الطلمبات الديزل بكل ملحقاتها والسولار اللازم لتشغيلها ٢٤ ساعة والعمالة الفنية اللازمة للتشغيل طوال مدة تنفيذ الاعمال وطبقا للبيانات الفنية التي بفي عليها عرض اسعارنا	يوم	٠	٦٠٠٠	٦٠٠٠

أركونز انجينيرنج

العنوان: ٣ شارع دسوق - مصر الجديدة
تليفون: ٠١٨٢٥٠٢٠٠١ - ٢٩١٤٩٤٢
ب.ض. ٦١٤-١٩٥-٣٠٦
Email: ebrahimelkomus@hotmail.com
اتحاد
المقاولون: ٣٠٣٤٩

أركونز انجينيرنج

مهندسون - مقاولون

اعمال متكاملة

م	بيان الاعمال	الوحدة	الكمية	الفئة	الإجمالي
ثانيا	الموقع الثانی بعدد (١٢٤) حربة .				
١	بالمقطوعية تكلفة أعمال تحميل ونقل معدات التجفيف بالنقط الابرية وخطوط الطرد ذهاب وعودة وتجهيز وفك دائرة التجفيف والفئة تشمل نقل الظلمبات الديزل وملحقاتها ومعدات التخريم وتوريد ونقل مواسير السحب المادة والمصافي وذلك لزوم تنفيذ عدد (١٢٤) حربة طبقا للتصميم المرسل لنا وايضا تكلفة نقل خط طرد في حدود ١٥٠ متر طولي وذلك من مخازننا إلى موقع المشروع بديروط واعادة الوضع لاصلة بعد انتهاء الاعمال وتنفيذ البند طبقا لاصول الصناعة. والفئة محمل عليها تكلفة تركيب والفئة تشمل تجهيز دائرة التجفيف والفك بعد انتهاء الاعمال واعادة الوضع لاصلة وتنفيذ البند طبقا لاصول الصناعة .	مقطوعية	١	٢٥٠٠٠٠	٢٥٠٠٠٠
٢	باليوم تكلفة تشغيل نظام التجفيف بالحرايب لعدد (١٢٤) حربة شاملة الظلمبات الديزل بكل ملحقاتها والسولار اللازم لتشغيلها ٢٤ ساعة والعمالة الفنية اللازمة للتشغيل طوال مدة تنفيذ الاعمال وطبقاً للبيانات الفنية التي بنى عليها عرض اسعارنا	يوم	٠	١١٥٠٠	١١٥٠٠

شروط خاصة ومكملة لعرض اسعارنا :-

- ١- تسليمنا الموقع خالي من العوائق وجاهز للعمل .
 - ٢- توفير معدة مناسبة للمساعدة في أعمال تحميل وتعبق المعدات المساعدة وخطوط الطرد... الخ .
 - ٣- عمل التصاريح اللازمة للعمل ليلا ونهارا طوال مدة تنفيذ الاعمال .
 - ٤- عمل التصاريح اللازمة لتركيب خطوط الطرد وصرف مياه النزح الجوفى ولمسافة لا تزيد عن ١٥٠ متر طولي .
 - ٤- يتم صرف دفعة مقدمه قدرها ٢٥ % من حجم الأعمال المتوقع من عرض اسعارنا .
 - ٦- يتم عمل مستخلصات شهرية بالأعمال التي يتم تنفيذها طبقا لايام التشغيل الفعلية وذلك شهريا .
 - ٧- يتم احتساب القيمة الايجارية اثناء فترات التوقف بنصف القيمة الواردة يعرض اسعارنا .
- وتفضلو سيادتكم بقبول فائق الاحترام

المدير التنفيذي

مهندس /
ابراهيم صوريد

أركونز انجينيرنج

العنوان: ٣ شارع سوق - مصر الجديدة
ب.ض. ٦١٤-١٩٥-٣٠٩
تليفون: ٠١٨٢٥٠٢٠٠١ - ٢٩١٤٩٤٢
اتحاد
المقاولون: ٣٠٣٤٩٠
من: ٣٧٠٦٤٣
Email: ebrahimelkonus@hotmail.com

ARCONS ENGINEERING

Engineers-Contractors

Messrs. Sanyu Consultants Inc.
The Project for New Dayrut Regulators

Dears,

We have the honor to submit our quotation for the well point system:

1- Our Quotation based on following technical information:

- Dewatering by well point sys.
- Site 1: 76 wells
- Site 2: 124 wells
- Transportation and preparation is L. Sum
- Operation by daily rate.

2- BOQ

No	Item	Unit	Unit Price EGP)	Total (EGP)
1	Mobilization of material, equipment, discharge line about 150 m length, wells, and demobilization also, preparation, excavation and installation (76 wells)	L.S	150,000	150,000
2	Daily operation and control for 76 wells	Day	6,000	6,000
3	Mobilization of material, equipment, discharge line about 150 m length, wells, and demobilization also, preparation, excavation and installation (124 wells)	L.S	250,000	250,000
	Daily operation and control for 124 wells	Day	11,500	11,500

3- Offer conditions

- Handing over site free from any obstacles
- Provide a suitable equipment for loading, unloading and handling material and pumps at site.
- Provide necessary permissions for discharging the water to distance not more 150m.
- 25% expected work amount in advance.
- Monthly payment based on operation progress.
- The idle day shall calculated as 50% price of operation price/day.