المؤسسة العامة القطرية للكهرباء والماء
Qatar General Electricity & Water Corporation

CONTRACT No GTC 626/2014A

CONSTRUCTION OF MEGA RESERVOIR PRPSs
(PACKAGE A - UMM BIRKA)

CONTRACT DOCUMENTS
(VOLUME 19 OF 19)

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) &
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

TABLE OF CONTENTS

VOLUME	SECTION	ITEM
VOLUME 1	1	Contract Agreement
	2	Letter of Award
	3	Letter of Confirmation
	4	Secrecy Declaration
	5	Performance Bond
	6	Commercial Registration and Power of Attorney
	7	Summary of Contract
	8	General Conditions of Contracts
VOLUME 2/6	9	Appendix A: Scope of Work and Specifications
VOLUME 7	10	Appendix B: Schedule of Prices
		1. Form of Tender
		2. Preamble
		3. Bills of Quantities
		• Contract BOQ (After Currency Adjustment)
	11	Appendix C: Insurance
		1. Preamble
		2. All Risk Insurance
		3. Workmen's Compensation Insurance
	12	Appendix D Administration Instructions
VOLUME 8	13	Appendix E Contractor Resources
		Annexure 1: Contractor's Personnel
		Annexure 2: Facilities, Plant & Equipment owned by Contractor
		Annexure 3: Facilities, Plant & Equipment proposed by Contractor
		Annexure 4: Subcontractors
		Annexure 5: Suppliers
		Annexure 6: Contractor's Company Organization Chart
		Annexure 7: Contractor's Project Organization Chart
		Annexure 8: QA/QC Procedure
VOLUME 9	13	Annexure 9: Utilization of National Products & National Origin
		Annexure 10: Contractor's General Information
		Annexure 11: List of Customers and Projects
		Annexure 12: List of Current Commitment
VOLUME10	14	Appendix F Drawings
	15	Appendix G Material Equipment Supplied by KAHRAMAA
	16	Appendix H Contract Execution Plan
		1. Programme of Work
		2. Method Statement
VOLUME 11/15	17	Appendix I Materials Supplied by the Contractor
VOLUME 16/17	18	Appendix J General Safety Requirements
	19	Appendix K Departure from or Qualification to the Specification
VOLUME 18	20	Acknowledgement of Receipt of Tender Documents
		Circulars No. 1 to 21
VOLUME 19	**21**	**Commercial Offer BOQ**
		Pre Award Correspondence
		Minutes of Pre-Award Meeting

SECTION 21:
COMMERCIAL OFFER BOQ

WATER SECURITY MEGARESERVOIR

Construction of Mega Reservoir PRPS at Umm Birka - Package A
PRPS 1
GTC/626A/2014

BILL OF QUANTITIES (Rev 03)

KAMRA MAD
GTC

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

Bill No.1
Supply of Main Pumps, Motors and Spares- Preferred Supplier

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626A/2014

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 1 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
1.1	**Supply of Main Pumps and Motors** **Supply of the following main Pumps and Motors including all related sensors, equipment and ancillary items required for a complete installation.**									
1.1.1	Pump Set Sub System 1A Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	NO	4	-	436,001.80	-	-	-	436,001.80	1,744,007.20
1.1.2	Pump Set-Sub System 1B Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	NO	5	-	1,620,352.33	-	-	-	1,620,352.33	8,101,761.65
	Subtotal for 1.1									9,845,768.85

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEEN CONTRACTING CO. W.L.L. JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 1 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
1.2	**Supply of Spare Parts** **Supply of Manufacturer recommended Spare Parts for the following Main Pumps and Motors as specified.**									
1.2.1	Pump Set Sub System 1A (4 Nos.) Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	LS		-	31,981.06	-	-	-	31,981.06	31,981.06
1.2.1.1	Additonal Spare Parts for above Pump and Mortor									
1.2.2.1.1	Impeller (each)	NO	2	-	35,978.69	-	-	-	35,978.69	71,957.38
1.2.2.1.2	Impeller wear ring(set)	NO	6	-	12,792.42	-	-	-	12,792.42	76,754.52
1.2.2.1.3	Casing wear rings (set)	NO	6	-	15,590.77	-	-	-	15,590.77	93,544.62
1.2.2.1.4	Shaft with key and nut (set)	NO	3	-	3,997.63	-	-	-	3,997.63	11,992.89
1.2.2.1.5	Shaft protection sleeves (set)	NO	6	-	11,992.90	-	-	-	11,992.90	71,957.40
1.2.2.1.6	Pumps bearings & washers (set)	NO	6	-	1,599.05	-	-	-	1,599.05	9,594.30
1.2.2.1.7	Mechanical seals (each)	NO	6	-	18,588.99	-	-	-	18,588.99	111,533.94
1.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	12	-	799.53	-	-	-	799.53	9,594.36
1.2.2.1.9	Pump/motor coupling	NO	2	-	16,590.17	-	-	-	16,590.17	33,180.34
1.2.2.1.10	Bearing housing	NO	2	-	2,198.70	-	-	-	2,198.70	4,397.40

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 1 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
1.2.2	Pump Set-Sub System 1B (5 Nos.) Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	LS		-	59,964.49	-	-	-	59,964.49	59,964.49
1.2.2.1	Additonal Spare Parts for above Pump and Mortor								-	-
1.2.2.1.1	Impeller (each)	NO	3	-	127,924.24	-	-	-	127,924.24	383,772.72
1.2.2.1.2	Impeller wear ring(set)	NO	8	-	24,385.56	-	-	-	24,385.56	195,084.48
1.2.2.1.3	Casing wear rings (set)	NO	8	-	27,983.43	-	-	-	27,983.43	223,867.44
1.2.2.1.4	Shaft with key and nut (set)	NO	4	-	9,994.08	-	-	-	9,994.08	39,976.32
1.2.2.1.5	Shaft protection sleeves (set)	NO	8	-	39,176.80	-	-	-	39,176.80	313,414.40
1.2.2.1.6	Pumps bearings & washers (set)	NO	8	-	9,594.32	-	-	-	9,594.32	76,754.56
1.2.2.1.7	Mechanical seals (each)	NO	8	-	21,587.21	-	-	-	21,587.21	172,697.68
1.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	16	-	1,199.29	-	-	-	1,199.29	19,188.64
1.2.2.1.9	Pump/motor coupling	NO	2	-	35,578.93	-	-	-	35,578.93	71,157.86
1.2.2.1.10	Bearing housing	NO	2	-	8,395.03	-	-	-	8,395.03	16,790.06
	Subtotal for 1.2									2,099,156.86

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 1 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	COLLECTION									
	Subtotal for 1.1									9,845,768.85
	Subtotal for 1.2									2,099,156.86
	Carried Forward to General Summary									**11,944,925.71**

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TAYSEER CONTRACTING CO. WLL - JV

Bill No.2

Supply of Main Pumps, Motors and Spares Alternative Supplier No. 2

Not Used

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626A/2014

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 2 Supplier No. 2
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
2.1	**Supply of Main Pumps and Motors** **Supply of the following main Pumps and Motors including all related sensors, equipment and ancillary items required for a complete installation.**									
2.1.1	Pump Set Sub System 1A Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	NO	4						-	-
2.1.2	Pump Set-Sub System 1B Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	NO	5						-	-
	Subtotal for 2.1									-

Not Used

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 2 Supplier No. 2
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
2.2	**Supply of Spare Parts** **Supply of Manufacturer recommended Spare Parts for the following Main Pumps and Motors as specified.**									
2.2.1	Pump Set Sub System 1A (4 Nos.) Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	LS							-	-
2.2.1.1	Additonal Spare Parts for above Pump and Mortor									
2.2.2.1.1	Impeller (each)	NO	2							
2.2.2.1.2	Impeller wear ring(set)	NO	6							
2.2.2.1.3	Casing wear rings (set)	NO	6							
2.2.2.1.4	Shaft with key and nut (set)	NO	3							
2.2.2.1.5	Shaft protection sleeves (set)	NO	6							
2.2.2.1.6	Pumps bearings & washers (set)	NO	6							
2.2.2.1.7	Mechanical seals (each)	NO	6							
2.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	12							
2.2.2.1.9	Pump/motor coupling	NO	2							
2.2.2.1.10	Bearing housing	NO	2							

Not Used

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 2 Supplier No. 2
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
2.2.2	Pump Set-Sub System 1B (5 Nos.) Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	LS							-	-
2.2.2.1	Additonal Spare Parts for above Pump and Mortor								-	-
2.2.2.1.1	Impeller (each)	NO	3							
2.2.2.1.2	Impeller wear ring(set)	NO	8							
2.2.2.1.3	Casing wear rings (set)	NO	8							
2.2.2.1.4	Shaft with key and nut (set)	NO	4							
2.2.2.1.5	Shaft protection sleeves (set)	NO	8							
2.2.2.1.6	Pumps bearings & washers (set)	NO	8							
2.2.2.1.7	Mechanical seals (each)	NO	8							
2.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	16							
2.2.2.1.9	Pump/motor coupling	NO	2							
2.2.2.1.10	Bearing housing	NO	2							
	Subtotal for 2.2									-

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 2 Supplier No. 2
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	COLLECTION									
	Subtotal for 2.1									-
	Subtotal for 2.2									-
	Carried Forward to General Summary									-

Bill No.3

Supply of Main Pumps, Motors and Spares Alternative Supplier No. 3

Not Used

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626A/2014

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 3 Supplier No. 3
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
3.1	**Supply of Main Pumps and Motors** **Supply of the following main Pumps and Motors including all related sensors, equipment and ancillary items required for a complete installation.**									
3.1.1	Pump Set Sub System 1A Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	NO	4						-	-
3.1.2	Pump Set-Sub System 1B Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	NO	5						-	-
	Subtotal for 3.1									-

Not Used

KAHRAMAA GTC

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 3 Supplier No. 3
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
3.2	**Supply of Spare Parts** **Supply of Manufacturer recommended Spare Parts for the following Main Pumps and Motors as specified.**									
3.2.1	Pump Set Sub System 1A (4 Nos.) Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	LS							-	-
3.2.1.1	Additonal Spare Parts for above Pump and Mortor									
3.2.2.1.1	Impeller (each)	NO	2							
3.2.2.1.2	Impeller wear ring(set)	NO	6							
3.2.2.1.3	Casing wear rings (set)	NO	6							
3.2.2.1.4	Shaft with key and nut (set)	NO	3							
3.2.2.1.5	Shaft protection sleeves (set)	NO	6							
3.2.2.1.6	Pumps bearings & washers (set)	NO	6							
3.2.2.1.7	Mechanical seals (each)	NO	6							
3.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	12							
3.2.2.1.9	Pump/motor coupling	NO	2							
3.2.2.1.10	Bearing housing	NO	2							

Not Used

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 3 Supplier No. 3
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
3.2.2	Pump Set-Sub System 1B (5 Nos.) Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	LS							-	-
3.2.2.1	Additonal Spare Parts for above Pump and Mortor								-	-
3.2.2.1.1	Impeller (each)	NO	3							
3.2.2.1.2	Impeller wear ring(set)	NO	8							
3.2.2.1.3	Casing wear rings (set)	NO	8							
3.2.2.1.4	Shaft with key and nut (set)	NO	4							
3.2.2.1.5	Shaft protection sleeves (set)	NO	8							
3.2.2.1.6	Pumps bearings & washers (set)	NO	8							
3.2.2.1.7	Mechanical seals (each)	NO	8							
3.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	16							
3.2.2.1.9	Pump/motor coupling	NO	2							
3.2.2.1.10	Bearing housing	NO	2							
	Subtotal for 3.2									-

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 3 Supplier No. 3
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Major M&E Equipment	Rev. 03
	Pump Supplier	

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	COLLECTION									
	Subtotal for 3.1									-
	Subtotal for 3.2									-
	Carried Forward to General Summary									-

Bill No.4

Supply of Main Pumps, Motors and Spares - Alternative Supplier No. 4

WATER SECURITY MEGA RESERVOIR: PRPS 1

GTC/626A/2014

Not Used

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 4 Supplier No. 4
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
4.1	**Supply of Main Pumps and Motors** **Supply of the following main Pumps and Motors including all related sensors, equipment and ancillary items required for a complete installation.**									
4.1.1	Pump Set Sub System 1A Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	NO	4							
4.1.2	Pump Set-Sub System 1B Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	NO	5						-	-
	Subtotal for 4.1									-

Not Used

GTC

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 4 Supplier No. 4
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
4.2	**Supply of Spare Parts** **Supply of Manufacturer recommended Spare Parts for the following Main Pumps and Motors as specified.**									
4.2.1	Pump Set Sub System 1A (4 Nos.) Electrically driven, variable speed, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 566 l / Sec @ 49 m Head	LS							-	-
4.2.1.1	Additonal Spare Parts for above Pump and Mortor									
4.2.2.1.1	Impeller (each)	NO	2							
4.2.2.1.2	Impeller wear ring(set)	NO	6							
4.2.2.1.3	Casing wear rings (set)	NO	6							
4.2.2.1.4	Shaft with key and nut (set)	NO	3							
4.2.2.1.5	Shaft protection sleeves (set)	NO	6							
4.2.2.1.6	Pumps bearings & washers (set)	NO	6							
4.2.2.1.7	Mechanical seals (each)	NO	6							
4.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	12							
4.2.2.1.9	Pump/motor coupling	NO	2							
4.2.2.1.10	Bearing housing	NO	2							

Not Used

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 4 Supplier No. 4
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
4.2.2	Pump Set-Sub System 1B (5 Nos.) Electrically driven, Single stage, axially split Case Horizontal centrifugal water pumps complete with all the ancillaries. Capacity: 1679 l / Sec @ 58 m Head	LS							-	-
4.2.2.1	Additonal Spare Parts for above Pump and Mortor								-	-
4.2.2.1.1	Impeller (each)	NO	3							
4.2.2.1.2	Impeller wear ring(set)	NO	8							
4.2.2.1.3	Casing wear rings (set)	NO	8							
4.2.2.1.4	Shaft with key and nut (set)	NO	4							
4.2.2.1.5	Shaft protection sleeves (set)	NO	8							
4.2.2.1.6	Pumps bearings & washers (set)	NO	8							
4.2.2.1.7	Mechanical seals (each)	NO	8							
4.2.2.1.8	O-rings, V-rings , and gaskets (set)	NO	16							
4.2.2.1.9	Pump/motor coupling	NO	2							
4.2.2.1.10	Bearing housing	NO	2							
	Subtotal for 4.2									-

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 4 Supplier No. 4
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
				Pump Supplier						
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	COLLECTION									
	Subtotal for 4.1									-
	Subtotal for 4.2									-
	Carried Forward to General Summary									-

Bill No.5
Materials Supply – Major M&E Equipment

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626A/2014

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	Supply of major M&E Equipment **Supply of the following major M&E Equipment including cabling, cable trays and all related equipment and ancillary items required for a complete installation. Scope includes the supply of all other equipment in accordance with KAHRAMAA requirements and standards.**									
5.1	**MV /Generator and Substations**									
5.1.1	**MV /Generator**									
5.1.1.1	Medium Voltage Switchgear Panel R1-MVSG-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 5No. 400 A - Outgoing Ways: 8No. - Busbar Couplers: 2 No.	NO	1		3,865,840.06				3,865,840.06	3,865,840.06
5.1.1.2	Medium Voltage Switchgear Panel R1-MVSG-02 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 5 No. 400 A - Outgoing Ways: 7 No. - Busbar Couplers: 2 No.	NO	1		2,489,117.15				2,489,117.15	2,489,117.15
5.1.1.3	Medium Voltage Prime-rated Generator Sets R1-MVG-GEN-01A, R1-MVG-GEN-02A and R1-MVG-GEN-03A including generator controls. - Fuel: Diesel - Voltage: 11 kV - Rating: 2.6 MVA	NO	3	5,704,381.76					5,704,381.76	17,113,145.28

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.1.1.4	Low Voltage Prime-rated Generator Set R1-MVG-GEN-04 including generator controls. - Fuel: Diesel - Voltage: 415 V - Rating: 2 MVA	NO	1	2,404,076.48					2,404,076.48	2,404,076.48
5.1.1.5	Transformer R1-MVG-TX-20 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	NO	1		317,113.57				317,113.57	317,113.57
5.1.1.6	Medium Voltage Generator Synchronization Panel BB-R1-GEN-01 - Voltage: 11 kV - Busbar Rating: 1200 A - Incomers: 3No. 400 A - Outgoing Ways: 4No. 400 A - Busbar Coupler: 1 No.	NO	1		581,423.93				581,423.93	581,423.93
5.1.1.7	Low Voltage Switchgear Panel R1-MVG-MDB-01 - Voltage: 415 V - Busbar Rating: 2500 A - Incomers: 2No. 2500 A - Outgoing Ways: 16No. Various Ratings	NO	1		886,684.03				886,684.03	886,684.03
5.1.1.8	Low Voltage Generator Switchgear Panel R1-MVG-GMDB-01 - Voltage: 415 V - Busbar Rating: 3200 A - Incomers: 1No. 3200 A - Outgoing Ways: 4No. 2500 A	NO	1		273,017.00				273,017.00	273,017.00

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 5 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.1.2	**Remote Substation 1 & 2**									
5.1.2.1	Medium Voltage Switchgear Panels R1-RS1-MVP-01 and R1-RS2-MVP-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 2No. 400 A - Outgoing Ways: 1No. 400 A	NO	2		559,887.96				559,887.96	1,119,775.92
5.1.2.2	Transformers R1-RS1-TX-21 and R1-RS1-TX-22 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 0.5 MVA - Impedance: 4.75%	NO	2		164,539.86				164,539.86	329,079.72
5.1.2.3	Low Voltage Switchgear Panels R1-RS1-MDB-01 and R1-RS2-MDB-01 - Voltage: 415 V - Busbar Rating: 1000 A - Incomers: 2No. - Outgoing Ways: Various	NO	2		325,473.67				325,473.67	650,947.34
5.1.3	**Remote Substation 3&4**									
5.1.3.1	Medium Voltage Switchgear Panels R1-RS3-MVP-01 and R1-RS4-MVP-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 2No. 400 A - Outgoing Ways: 1No. 400 A	NO	2		584,740.37				584,740.37	1,169,480.74
5.1.3.2	Transformers R1-RS3-TX-23 and R1-RS4-TX-24 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	NO	2		317,345.99				317,345.99	634,691.98

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.1.3.3	Low Voltage Switchgear Panels R1-RS3-MDB-01 and R1-RS4-MDB-01 - Voltage: 415 V - Busbar Rating: 2500 A - Incomers: 2No. 2500 A - Outgoing Ways: Various	NO	2		763,226.82				763,226.82	1,526,453.64
5.1.3.4	Low Voltage Prime-rated Generator Sets R1-RS3-GEN-02 and R1-RS4-GEN-03 including generator controls. - Fuel: Diesel - Voltage: 415 V - Rating: 1.28 MVA	NO	2		2,120,534.36				2,120,534.36	4,241,068.72
5.1.4	**Remote Generator Room**									
5.1.4.1	Low Voltage Prime-rated Generator Set R1-RG1-GEN-02 including generator controls. - Fuel: Diesel - Voltage: 415 V - Rating: 1 MVA	NO	1		1,164,033.91				1,164,033.91	1,164,033.91
5.1.4.2	Low Voltage Generator Switchgear Panel R1-RG1-GMDB-01 - Voltage: 415 V - Busbar Rating: 3000 A - Incomers: 1No. 3200 A - Outgoing Ways: 2No. 1200 A	NO	1		1,555,134.78				1,555,134.78	1,555,134.78
	Subtotal for 5.1									40,321,084.25

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.2	**Main Pump Station**									
5.2.1	**Pumps**									
5.2.1.1	Flood Pumps Electrically driven, vertical Submersible water pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 242.1 l/s @ 10.5 m Head	NO	4	-	88,891.35	-	-	-	88,891.35	355,565.40
5.2.1.2	Drain Pumps Electrically driven, vertical Submersible water pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 9.72 l/ Sec @ 16.4 m Head Drive Motor- 4.2kW	NO	4	-	59,124.98	-	-	-	59,124.98	236,499.92
5.2.2	**Main Pump Station Other Equipment**									
5.2.2.1	1400KW, MV Variable frequency drive unit including 11/3.3kV 2MVA Phase Shift Transformer, Frequency converter with 24 pulse (minimum) rectifier, Harmonic filter unit, IGBT/IGCT inverter and all other ancillary equipment and works required for complete installation	NO	5		2,926,632.87				2,926,632.87	14,633,164.35

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.2.2.2	400KW LV Variable frequency drive unit of PWM design including Frequency converter having full wave diode bridge rectifier, DC links, inverters, Harmonic filter units and all other ancillary equipment and works required for complete installation	NO	4		497,535.51				497,535.51	1,990,142.04
5.2.2.3	Passenger / handyman tools Lift from an approved manufacturer complete with all integral parts, accessories, interior finishing, additional features, pit ladder and final connections as specified	NO	1	-	-	-	-	499,704.05	499,704.05	499,704.05
5.2.2.4	Transformers - Type: Oil Filled - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	NO	5		117,879.62				117,879.62	589,398.10
	Subtotal for 5.2									18,304,473.86

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.3	**Auxiliary Pumping Station**									
5.3.1	**Pumps**									
5.3.1.1	Recirculation Pumps Submersible pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 1260 l/sec @ 8.06 m Head	NO	4	-	577,793.79	-	-	-	577,793.79	2,311,175.16
5.3.1.2	Drain Down Return Pumps Electrically driven, Single or Multi Channel Impeller pumps With large through lets and single volute pump casing complete with instrumentation, sensors and all the ancillaries. Capacity: 900 l/sec @ 10 m Head.	NO	2	-	695,432.15	-	-	-	695,432.15	1,390,864.30
5.3.1.3	Scour Pumps Electrically driven, Multi Channel Impeller pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 54 l/ Sec @ 7m Head Drive Motor	NO	2	-	46,892.22	-	-	-	46,892.22	93,784.44
5.3.1.4	Drain Pumps Electrically driven, Vortex Impeller type Submersible water pumps complete with instrumentation, sensors and all the ancillaries. Capacity:10 l/ Sec @ 11.7 m Head Drive Motor-3.1kW	NO	2	-	35,678.89	-	-	-	35,678.89	71,357.78
	Subtotal for 5.3									3,867,181.68

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.4	**TFS Pumping Station**									
5.4.1	**Pumps**									
5.4.1.1	Main Pump Submersible pump installed in dry well complete with instrumentation, sensors and all the ancillaries. Capacity: 100 l/Sec @ 9.96 m Head	NO	4	-	124,570.25	-	-	-	124,570.25	498,281.00
5.4.1.2	Drain Pump Electrically driven, Submersible water pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 10 l/Sec @ 11.7 m Head	NO	2	-	59,124.98	-	-	-	59,124.98	118,249.96
	Subtotal for 5.4									616,530.96

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.5	**Utility Pumping Station**									
5.5.1	**Pumps**									
5.5.1.1	Fire Pump Electrically driven, Horizontal pumps as per NFPA requirement complete with instrumentation, sensors and all the ancillaries.	NO	1	-	137,210.75	-	-	-	137,210.75	137,210.75
5.5.1.2	Diesel Engine driven, Horizontal pumps as per NFPA requirement complete with instrumentation, sensors and all the ancillaries.	NO	1	-	228,548.66	-	-	-	228,548.66	228,548.66
5.5.1.3	Jockey Pump Electrical driven pumps as per NFPA requirement complete with instrumentation, sensors and all the ancillaries.	NO	2	-	19,988.16	-	-	-	19,988.16	39,976.32
5.5.1.4	Potable Water Pumps Electrical driven Booster pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 10 l/s @3 bar	NO	2	-	65,241.36	-	-	-	65,241.36	130,482.72
5.5.1.5	Irrigation Pumps Electrical driven Booster pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 2.6 l/s @6.5 bar	NO	2	-	39,756.48	-	-	-	39,756.48	79,512.96
	Subtotal for 5.5									615,731.41

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.6	**Land and Under Floor Drainage Lift Station**									
5.6.1	Electrically driven, Submersible water pumps complete with instrumentation, sensors and all the ancillaries. Capacity: 9.72 l/Sec @ 16.4 m Head	NO	3	-	17,989.35	-	-	-	17,989.35	53,968.05
	Subtotal for 5.6									53,968.05

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.7	**Compressor Building**									
5.7.1	Air Compressors - Oil Free Rotary Screw type, Delivery Capacity -10.61 m³/ min, Nominal Pressure -10 bar, Drive Motor- 75kW, complete with 3 nr. Air receivers, all necessary pipe work, fittings and valves and all the ancillaries required for a complete installation.	NO	5	-	521,691.02	-	-	-	521,691.02	2,608,455.10
	Subtotal for 5.7									2,608,455.10

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
5.8	**Other Equipment**									
5.8.1	Complete chlorination system including pumps, dosing injection, necessary pipe works, chlorine drums (duty/standby/storage), water quality monitoring, cabines and all the ancillaries required for a complete installation.	LS		-	6,396,211.79	-	-	-	6,396,211.79	6,396,211.79
5.8.2	Electrically powered six seater passenger vehicles.	NO	3	-	71,957.38	-	-	-	71,957.38	215,872.14
5.8.3	Electrically powered four seater vehicle with cargo bed at the rear.	NO	2	-	79,952.65	-	-	-	79,952.65	159,905.30
	Subtotal for 5.8									6,771,989.23

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 5 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Major M&E Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	COLLECTION									
	Subtotal for 5.1									40,321,084.25
	Subtotal for 5.2									18,304,473.86
	Subtotal for 5.3									3,867,181.68
	Subtotal for 5.4									616,530.96
	Subtotal for 5.5									615,731.41
	Subtotal for 5.6									53,968.05
	Subtotal for 5.7									2,608,455.10
	Subtotal for 5.8									6,771,989.23
	Carried Forward to General Summary									**73,159,414.54**

Bill No.6
Materials supply – Pipes, Fittings, Valves and Accessories

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626A/2014

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	Supply of Pipes, Fittings, Valves and Accessories									
	Supply of Pipes, Fittings, Valves and Accessories for following Pumping Stations									
	Supply of the following ancillary items and related Carbon Steel/DI Pressure pipes, fittings and valves complete with accessories, as per Specifications and in accordance with KAHRAMAA requirements and standards.									
6.1	**Main Pump Station Pipe Work. Reference drawing No. MQ174-R1-DH-CI-6200 to MQ174-R1-DH-CI-6207**									
6.1.1	DN1000 PN16 Motorized Gate Valve	NO	5	-	267,558.07	-	-	-	267,558.07	1,337,790.35
6.1.2	DN700 PN16 Motorized Gate Valve	NO	4	-	122,266.80	-	-	-	122,266.80	489,067.20
6.1.3	DN800 PN16 Axial Spring Loaded NRV	NO	5	-	319,755.39	-	-	-	319,755.39	1,598,776.95
6.1.4	DN600 PN16 Axial Spring Loaded NRV	NO	4	-	171,841.42	-	-	-	171,841.42	687,365.68
6.1.5	DN800 PN16 Motorized Butterfly Valve	NO	5	-	97,691.27	-	-	-	97,691.27	488,456.35
6.1.6	DN600 PN16 Motorized Butterfly Valve	NO	4	-	56,492.55	-	-	-	56,492.55	225,970.20
6.1.7	DN1600 PN16 Quick Closing Valve	NO	2	-	817,368.64	-	-	-	817,368.64	1,634,737.28
6.1.8	DN2200 PN16 Quick Closing Valve	NO	2	-	1,627,167.51	-	-	-	1,627,167.51	3,254,335.02
6.1.9	DN1200 PN16 Quick Closing Valve	NO	1	-	319,902.77	-	-	-	319,902.77	319,902.77
6.1.10	DN2200 PN16 Motorized Butterfly Valve	NO	3	-	733,089.97	-	-	-	733,089.97	2,199,269.91

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.1.11	DN200 PN16 Gate Valve	NO	15	-	3,200.99	-	-	-	3,200.99	48,014.85
6.1.12	DN100 PN16 Gate Valve	NO	12	-	2,060.79	-	-	-	2,060.79	24,729.48
6.1.13	CS DN600 x DN300 PN16 Concentric Reducer	NO	4	2,539.70	-	-	-	-	2,539.70	10,158.80
6.1.14	CS DN800 x DN600 PN16 Concentric Reducer	NO	5	12,881.34	-	-	-	-	12,881.34	64,406.70
6.1.15	CS DN700 x DN350 PN16 Eccentric Reducer	NO	4	3,098.23	-	-	-	-	3,098.23	12,392.92
6.1.16	CS DN1000x DN800 PN16 Eccentric Reducer	NO	5	24,370.54	-	-	-	-	24,370.54	121,852.70
6.1.17	DN2200 PN16 Dismantling joint	NO	5	74,089.45	-	-	-	-	74,089.45	370,447.25
6.1.18	DN1600 PN16 Dismantling joint	NO	2	27,742.30	-	-	-	-	27,742.30	55,484.60
6.1.19	DN1200 PN16 Dismantling joint	NO	1	14,586.07	-	-	-	-	14,586.07	14,586.07
6.1.20	DN1000 PN16 Dismantling joint	NO	5	9,513.94	-	-	-	-	9,513.94	47,569.70
6.1.21	DN800 PN16 Dismantling joint	NO	10	5,655.91	-	-	-	-	5,655.91	56,559.10
6.1.22	DN700 PN16 Dismantling joint	NO	4	4,953.68	-	-	-	-	4,953.68	19,814.72
6.1.23	DN600 PN16 Dismantling joint	NO	8	3,752.28	-	-	-	-	3,752.28	30,018.24
6.1.24	DN2200 PN16 Carbon Steel Blind Flange	NO	2	56,933.65	-	-	-	-	56,933.65	113,867.30
6.1.25	DN1800 PN16, Carbon Steel Blind Flange	NO	2	25,560.27	-	-	-	-	25,560.27	51,120.54
6.1.26	DN1200 PN16, Carbon Steel Blind Flange	NO	1	9,266.73	-	-	-	-	9,266.73	9,266.73
6.1.27	DN700 PN16, Carbon Steel Blind Flange	NO	2	2,466.94	-	-	-	-	2,466.94	4,933.88

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.1.28	DN1000 PN16, Carbon Steel Blind Flange	NO	1	5,288.00	-	-	-	-	5,288.00	5,288.00
6.1.29	DN800 PN16, Carbon Steel Blind Flange	NO	1	3,321.12	-	-	-	-	3,321.12	3,321.12
6.1.30	DN600 PN16, Carbon Steel Blind Flange	NO	2	1,940.01	-	-	-	-	1,940.01	3,880.02
6.1.31	DN200 PN16, Carbon Steel Blind Flange	NO	15	262.87	-	-	-	-	262.87	3,943.05
6.1.32	DN100 PN16, Carbon Steel Blind Flange	NO	12	124.15	-	-	-	-	124.15	1,489.80
6.1.33	DN800 Expansion Joint	NO	5	-	7,195.74	-	-	-	7,195.74	35,978.70
6.1.34	DN600 Expansion Joint	NO	5	-	3,597.87	-	-	-	3,597.87	17,989.35
6.1.35	DN300 Expansion Joint	NO	4	-	1,599.05	-	-	-	1,599.05	6,396.20
6.1.36	DN350 Expansion Joint	NO	4	-	1,998.82	-	-	-	1,998.82	7,995.28
6.1.37	DN2200 Carbon Steel Pipe	LM	120	19,423.21	-	-	-	-	19,423.21	2,330,785.20
6.1.38	DN1800 Carbon Steel Pipe	LM	57	7,922.08	-	-	-	-	7,922.08	451,558.56
6.1.39	DN1600 Carbon Steel Pipe	LM	18	6,345.45	-	-	-	-	6,345.45	114,218.10
6.1.40	DN1200 Carbon Steel Pipe	LM	56	3,998.90	-	-	-	-	3,998.90	223,938.40
6.1.41	DN1000 Carbon Steel Pipe	LM	18	4,515.59	-	-	-	-	4,515.59	81,280.62
6.1.42	DN800 Carbon Steel Pipe	LM	28	3,613.18	-	-	-	-	3,613.18	101,169.04
6.1.43	DN700 Carbon Steel Pipe	LM	18	3,090.87	-	-	-	-	3,090.87	55,635.66
6.1.44	DN600 Carbon Steel Pipe	LM	25	2,705.49	-	-	-	-	2,705.49	67,637.25

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.1.45	DN2200 PN16 Weld Neck, Carbon Steel Flange	NO	48	60,544.08	-	-	-	-	60,544.08	2,906,115.84
6.1.46	DN1800 PN16 Weld Neck, Carbon Steel Flange	NO	18	9,039.81	-	-	-	-	9,039.81	162,716.58
6.1.47	DN1600 PN16 Weld Neck, Carbon Steel Flange	NO	12	7,390.88	-	-	-	-	7,390.88	88,690.56
6.1.48	DN1200 PN16 Weld Neck, Carbon Steel Flange	NO	17	3,735.06	-	-	-	-	3,735.06	63,496.02
6.1.49	DN1000 PN16 Weld Neck, Carbon Steel Flange	NO	11	2,724.44	-	-	-	-	2,724.44	29,968.84
6.1.50	DN800 PN16 Weld Neck, Carbon Steel Flange	NO	26	1,696.90	-	-	-	-	1,696.90	44,119.40
6.1.51	DN700 PN16 Weld Neck, Carbon Steel Flange	NO	10	1,321.42	-	-	-	-	1,321.42	13,214.20
6.1.52	DN600 PN16 Weld Neck, Carbon Steel Flange	NO	23	1,128.85	-	-	-	-	1,128.85	25,963.55
6.1.53	DN300 PN16 Weld Neck, Carbon Steel Flange	NO	4	374.38	-	-	-	-	374.38	1,497.52
6.1.54	DN350 PN16 Weld Neck, Carbon Steel Flange	NO	4	496.18	-	-	-	-	496.18	1,984.72
6.1.55	DN200 PN16 Weld Neck, Carbon Steel Flange	NO	15	218.96	-	-	-	-	218.96	3,284.40
6.1.56	DN100 PN16 Weld Neck, Carbon Steel Flange	NO	12	121.96	-	-	-	-	121.96	1,463.52
6.1.57	DN150, PN16 Air Releasing Valve	NO	3	7,722.88	-	-	-	-	7,722.88	23,168.64
6.1.58	DN150, PN16 Gate Valve	NO	3	-	2,481.24	-	-	-	2,481.24	7,443.72
	Drain/Flood System									
6.1.59	DI DN500 PN16 Double Flanged 90° Elbow	NO	2	9,994.08	-	-	-	-	9,994.08	19,988.16
6.1.60	DI DN100 PN16 Double Flanged 90° Elbow	NO	2	799.53	-	-	-	-	799.53	1,599.06

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.1.61	DI DN300 PN16 Double Flanged 45° Bend.	NO	4	3,997.63	-	-	-	-	3,997.63	15,990.52
6.1.62	DI DN100 PN16 Double Flanged 45° Bend.	NO	4	719.57	-	-	-	-	719.57	2,878.28
6.1.63	DI DN300 x DN150 PN16 Double Flanged Eccentric reducer	NO	4	1,998.82	-	-	-	-	1,998.82	7,995.28
6.1.64	DI DN100 x DN80 PN16 Double Flanged Eccentric reducer	NO	4	399.76	-	-	-	-	399.76	1,599.04
6.1.65	DI DN500 x DN300, PN16 flanged Reducing Tee	NO	4	11,992.90	-	-	-	-	11,992.90	47,971.60
6.1.66	DI DN500 x DN150, PN16 flanged Reducing Tee	NO	2	11,992.90	-	-	-	-	11,992.90	23,985.80
6.1.67	DI DN300 PN16 Dismantling joint	NO	4	1,658.28	-	-	-	-	1,658.28	6,633.12
6.1.68	DI DN100 PN16 Dismantling joint	NO	4	418.80	-	-	-	-	418.80	1,675.20
6.1.69	DN300 PN16 Gate Valve	NO	4	-	5,336.52	-	-	-	5,336.52	21,346.08
6.1.70	DN150 PN16 Gate Valve	NO	2	-	2,481.24	-	-	-	2,481.24	4,962.48
6.1.71	DN100 PN16 Gate Valve	NO	4	-	2,060.79	-	-	-	2,060.79	8,243.16
6.1.72	DN300 PN16 Non Return Valve	NO	4	-	28,530.96	-	-	-	28,530.96	114,123.84
6.1.73	DN100 PN16 Non Return Valve	NO	4	-	979.02	-	-	-	979.02	3,916.08
6.1.74	DN150 PN16 Air Valve	NO	2	7,722.88	-	-	-	-	7,722.88	15,445.76
6.1.75	DI DN100 PN16 Double flanged Pipe L=1000mm	NO	6	992.05	-	-	-	-	992.05	5,952.30

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.1.76	DI DN100 PN16 Double flanged Pipe L=200mm	NO	8	475.23	-	-	-	-	475.23	3,801.84
6.1.77	DI DN500 PN16 Double flanged Pipe L=1000mm	NO	2	8,700.46	-	-	-	-	8,700.46	17,400.92
6.1.78	DI DN500 PN16 Double flanged Pipe L=500mm	NO	2	8,606.03	-	-	-	-	8,606.03	17,212.06
6.1.79	DI DN500 PN16 Flange Spigot Pipe with Puddle Flange L=1500mm	NO	2	24,165.92	-	-	-	-	24,165.92	48,331.84
6.1.80	DI DN300 PN16 Double flanged Pipe L=2000mm	NO	4	9,942.31	-	-	-	-	9,942.31	39,769.24
6.1.81	DI DN100 PN16 Flange Spigot Pipe L=1000mm	NO	2	876.31	-	-	-	-	876.31	1,752.62
6.1.82	DI DN500 PN16 Blind flange	NO	2	3,198.11	-	-	-	-	3,198.11	6,396.22
6.1.83	DN100 DI PN16 Flanged Y type Tee	NO	2	999.41	-	-	-	-	999.41	1,998.82
	Subtotal for 6.1									20,617,496.47

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.2	**Auxiliary Pump Station Pipe Work. Reference drawing No. MQ174-R1-DH-CI-6330 to MQ174-R1-DH-CI-6333**									
6.2.1	DN1000, PN16 Motorized Gate Valve	NO	4	-	267,558.07	-	-	-	267,558.07	1,070,232.28
6.2.2	DN800, PN16 Motorized Gate Valve	NO	2	-	97,691.27	-	-	-	97,691.27	195,382.54
6.2.3	DN250, PN16 Motorized Gate Valve	NO	3	-	30,555.16	-	-	-	30,555.16	91,665.48
6.2.4	DN250, PN16 Gate Valve	NO	1	-	4,394.69	-	-	-	4,394.69	4,394.69
6.2.5	DN200, PN16 Motorized Gate Valve	NO	2	-	24,370.50	-	-	-	24,370.50	48,741.00
6.2.6	DN150, PN16 Gate Valve	NO	6	-	2,481.24	-	-	-	2,481.24	14,887.44
6.2.7	DN100, PN16 Gate Valve	NO	2	-	2,060.79	-	-	-	2,060.79	4,121.58
6.2.8	DN800, PN16 Non Return Valve	NO	6	-	112,001.44	-	-	-	112,001.44	672,008.64
6.2.9	DN200, PN16 Non Return Valve	NO	2	-	18,767.30	-	-	-	18,767.30	37,534.60
6.2.10	DN100, PN16 Non Return Valve	NO	2	-	979.02	-	-	-	979.02	1,958.04
6.2.11	DN800, PN16 Motorized Butterfly Valve	NO	6	-	97,692.66	-	-	-	97,692.66	586,155.96
6.2.12	DN200, PN16 Motorized Butterfly Valve	NO	1	-	26,961.01	-	-	-	26,961.01	26,961.01
6.2.13	DN1200, PN16 Dismantling Joint	NO	6	14,586.07	-	-	-	-	14,586.07	87,516.42
6.2.14	DN1000, PN16 Dismantling Joint	NO	4	9,513.94	-	-	-	-	9,513.94	38,055.76
6.2.15	DN800, PN16 Dismantling Joint	NO	16	5,654.43	-	-	-	-	5,654.43	90,470.88

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.2.16	DN250, PN16 Dismantling Joint	NO	4	1,027.96	-	-	-	-	1,027.96	4,111.84
6.2.17	DN200, PN16 Dismantling Joint	NO	4	799.53	-	-	-	-	799.53	3,198.12
6.2.18	DN100, PN16 Dismantling Joint	NO	3	571.09	-	-	-	-	571.09	1,713.27
6.2.19	DN1000, PN16 Flexible Coupling	NO	4	11,992.90	-	-	-	-	11,992.90	47,971.60
6.2.20	DN800, PN16 Flexible Coupling	NO	6	7,195.74	-	-	-	-	7,195.74	43,174.44
6.2.21	DN500, PN16 Flexible Coupling	NO	2	3,198.11	-	-	-	-	3,198.11	6,396.22
6.2.22	DN150, PN16 Flexible Coupling	NO	4	399.76	-	-	-	-	399.76	1,599.04
6.2.23	DI DN1200xDN1000, PN16 flanged Reducing Tee	NO	4	63,962.12	-	-	-	-	63,962.12	255,848.48
6.2.24	DI DN1200xDN800, PN16 flanged Reducing Tee	NO	4	63,962.12	-	-	-	-	63,962.12	255,848.48
6.2.25	DI DN800, PN16 flanged Equal Tee	NO	4	23,985.79	-	-	-	-	23,985.79	95,943.16
6.2.26	DI DN800xDN150, PN16 flanged Reducing Tee	NO	6	23,985.79	-	-	-	-	23,985.79	143,914.74
6.2.27	DI DN250, PN16 flanged Equal Tee	NO	2	2,998.22	-	-	-	-	2,998.22	5,996.44
6.2.28	DI DN200, PN16 flanged Equal Tee	NO	3	2,198.70	-	-	-	-	2,198.70	6,596.10
6.2.29	DI DN250 x DN200, PN16 flanged Reducing Tee	NO	1	2,998.22	-	-	-	-	2,998.22	2,998.22
6.2.30	DI DN800xDN500, PN16 flanged Concentric Reducer	NO	2	13,991.71	-	-	-	-	13,991.71	27,983.42
6.2.31	DI DN200xDN150, PN16 flanged Concentric Reducer	NO	2	1,399.17	-	-	-	-	1,399.17	2,798.34

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.2.32	DI DN250xDN150, PN16 flanged Eccentric Reducer	NO	2	1,798.93	-	-	-	-	1,798.93	3,597.86
6.2.33	DI DN100xDN65, PN16 flanged Concentric Reducer	NO	2	399.76	-	-	-	-	399.76	799.52
6.2.34	DI DN1000, PN16 , 90° flanged Bend	NO	4	33,979.88	-	-	-	-	33,979.88	135,919.52
6.2.35	DI DN800, PN16 , 90° flanged Duck Foot Bend	NO	8	27,983.43	-	-	-	-	27,983.43	223,867.44
6.2.36	DI DN200, PN16 , 90° flanged Duck foot Bend	NO	3	1,998.82	-	-	-	-	1,998.82	5,996.46
6.2.37	DI DN150, PN16 , 90° flanged Duck foot Bend	NO	2	1,399.17	-	-	-	-	1,399.17	2,798.34
6.2.38	DI DN100, PN16 , 90° flanged Bend	NO	1	799.53	-	-	-	-	799.53	799.53
6.2.39	DI DN100, PN16 , 45° flanged Bend	NO	2	719.57	-	-	-	-	719.57	1,439.14
6.2.40	DI DN100, PN16 , flanged Y Type Tee	NO	1	999.41	-	-	-	-	999.41	999.41
6.2.41	DI DN1200 PN16 Blind Flange	NO	4	31,981.06	-	-	-	-	31,981.06	127,924.24
6.2.42	DI DN800 PN16 Blind Flange	NO	2	9,994.08	-	-	-	-	9,994.08	19,988.16
6.2.43	DI DN200 PN16 Blind Flange	NO	1	999.41	-	-	-	-	999.41	999.41
6.2.44	DI DN250 PN16 Blind Flange	NO	1	1,199.29	-	-	-	-	1,199.29	1,199.29
6.2.45	DI DN150 PN16 Blind Flange	NO	6	399.76	-	-	-	-	399.76	2,398.56
6.2.46	DN1200 Orifice Plate	NO	2	99,940.81	-	-	-	-	99,940.81	199,881.62
6.2.47	DI DN1200, PN16 Double Flanged Pipe L=3000mm	NO	4	65,920.62	-	-	-	-	65,920.62	263,682.48

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.2.48	DI DN1200, PN16 Double Flanged Pipe L=1500mm	NO	4	46,094.14	-	-	-	-	46,094.14	184,376.56
6.2.49	DI DN1200, PN16 Double Flanged Pipe L=2000mm	NO	2	55,183.14	-	-	-	-	55,183.14	110,366.28
6.2.50	DI DN1200, PN16 Flanged Spigot Pipe with Central Puddle Flange L=3000mm	NO	2	66,914.45	-	-	-	-	66,914.45	133,828.90
6.2.51	DI DN1200, PN16 Flanged Spigot Pipe with Central Puddle Flange L=2000mm	NO	2	50,985.29	-	-	-	-	50,985.29	101,970.58
6.2.52	DI DN1000, PN16 Double Flanged Pipe L=2000mm	NO	4	36,053.86	-	-	-	-	36,053.86	144,215.44
6.2.53	DI DN800, PN16 Double Flanged Pipe L=2000mm	NO	4	27,135.38	-	-	-	-	27,135.38	108,541.52
6.2.54	DI DN800, PN16 Double Flanged Pipe L=1000mm	NO	8	16,670.89	-	-	-	-	16,670.89	133,367.12
6.2.55	DI DN800, PN16 Double Flanged Pipe L=1800mm	NO	2	27,860.79	-	-	-	-	27,860.79	55,721.58
6.2.56	DI DN800, PN16 Double Flanged Pipe L=1200mm	NO	4	19,448.62	-	-	-	-	19,448.62	77,794.48
6.2.57	DI DN800, PN16 Flanged Spigot Pipe with Central Puddle Flange L=3000mm	NO	2	48,551.99	-	-	-	-	48,551.99	97,103.98
6.2.58	DI DN250, PN16 Double Flanged Pipe L=1500mm	NO	1	7,841.53	-	-	-	-	7,841.53	7,841.53
6.2.59	DI DN250, PN16 Double Flanged Pipe L=500mm	NO	8	2,058.17	-	-	-	-	2,058.17	16,465.36

GTC
CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.2.60	DI DN250, PN16 Flanged Spigot Pipe with Central Puddle Flange L=2000mm	NO	1	10,440.42	-	-	-	-	10,440.42	10,440.42
6.2.61	DI DN200, PN16 Double Flanged Pipe L=2000mm	NO	1	3,198.11	-	-	-	-	3,198.11	3,198.11
6.2.62	DI DN200, PN16 Double Flanged Pipe L=1500mm	NO	2	2,798.34	-	-	-	-	2,798.34	5,596.68
6.2.63	DI DN200, PN16 Double Flanged Pipe L=1800mm	NO	4	2,998.22	-	-	-	-	2,998.22	11,992.88
6.2.64	DI DN200, PN16 Double Flanged Pipe L=2800mm	NO	3	3,198.11	-	-	-	-	3,198.11	9,594.33
6.2.65	DI DN200, PN16 Double Flanged Pipe L=700mm	NO	1	1,147.60	-	-	-	-	1,147.60	1,147.60
6.2.66	DI DN200, PN16 Double Flanged Pipe L=250mm	NO	4	998.09	-	-	-	-	998.09	3,992.36
6.2.67	DI DN150, PN16 Double Flanged Pipe L=200mm	NO	6	877.40	-	-	-	-	877.40	5,264.40
6.2.68	DI DN100, PN16 Double Flanged Pipe L=2500mm	NO	2	2,198.70	-	-	-	-	2,198.70	4,397.40
6.2.69	DI DN100, PN16 Double Flanged Pipe L=600mm	NO	1	955.76	-	-	-	-	955.76	955.76
6.2.70	DI DN100, PN16 Double Flanged Pipe L=200mm	NO	4	473.33	-	-	-	-	473.33	1,893.32
6.2.71	DI DN100, PN16 Double Flanged Pipe L=745mm	NO	2	1,447.18	-	-	-	-	1,447.18	2,894.36
6.2.72	DI DN200, PN16 Flanged Spigot Pipe with Central Puddle Flange L=1500mm	NO	1	9,314.48	-	-	-	-	9,314.48	9,314.48
	Subtotal for 6.2									6,110,744.64

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.3	**TFS Pump Station Pipe Work. Reference drawing No. MQ174-R1-DH-CI-6380 to MQ174-R1-DH-CI-6382**									
6.3.1	DN250, PN16 Non Return Valve	NO	5	-	31,924.83	-	-	-	31,924.83	159,624.15
6.3.2	DN100, PN16 Non Return Valve	NO	2	-	979.02	-	-	-	979.02	1,958.04
6.3.3	DN500, PN16 Motorized Gate valve	NO	1	-	72,807.85	-	-	-	72,807.85	72,807.85
6.3.4	DN500, PN16 Pressure Sustaining Valve	NO	1	-	221,076.52	-	-	-	221,076.52	221,076.52
6.3.5	DN300, PN16 Motor Operated Gate Valve	NO	4	-	31,362.25	-	-	-	31,362.25	125,449.00
6.3.6	DN250, PN16 Motor Operated Butterfly Valve	NO	4	-	31,842.01	-	-	-	31,842.01	127,368.04
6.3.7	DN100, PN16 Gate Valve	NO	2	-	2,060.79	-	-	-	2,060.79	4,121.58
6.3.8	DN250, PN16 Motor Operated Gate Valve	NO	2	-	30,555.16	-	-	-	30,555.16	61,110.32
6.3.9	DN600, PN16 Dismantling Joint	NO	1	3,752.28	-	-	-	-	3,752.28	3,752.28
6.3.10	DN500, PN16 Dismantling Joint	NO	2	2,855.45	-	-	-	-	2,855.45	5,710.90
6.3.11	DN300, PN16 Dismantling joint	NO	4	1,658.28	-	-	-	-	1,658.28	6,633.12
6.3.12	DN250, PN16 Dismantling joint	NO	6	1,027.96	-	-	-	-	1,027.96	6,167.76
6.3.13	DN100, PN16 Dismantling joint	NO	2	571.09	-	-	-	-	571.09	1,142.18
6.3.14	DN600,PN16 Collar	NO	1	4,797.16	-	-	-	-	4,797.16	4,797.16

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.3.15	DN500, PN16 Collar	NO	1	3,597.87	-	-	-	-	3,597.87	3,597.87
6.3.16	DN250, PN16 Flexible Coupling	NO	4	999.41	-	-	-	-	999.41	3,997.64
6.3.17	DN200, PN16 Flexible Coupling	NO	4	599.64	-	-	-	-	599.64	2,398.56
6.3.18	DI DN500xDN250, PN16 flanged Reducing Tee	NO	7	11,992.90	-	-	-	-	11,992.90	83,950.30
6.3.19	DI DN600xDN300, PN16 flanged Reducing Tee	NO	6	17,989.35	-	-	-	-	17,989.35	107,936.10
6.3.20	DI DN600, PN16 , 90° flanged Bend	NO	1	13,991.71	-	-	-	-	13,991.71	13,991.71
6.3.21	DI DN500, PN16 , 90° flanged Bend	NO	1	9,994.08	-	-	-	-	9,994.08	9,994.08
6.3.22	DI DN500, PN16 , 90° flanged Duck Foot Bend	NO	1	11,992.90	-	-	-	-	11,992.90	11,992.90
6.3.23	DI DN250, PN16 , 90° flanged Bend	NO	4	3,198.11	-	-	-	-	3,198.11	12,792.44
6.3.24	DI DN250, PN16 , 22.5° flanged Bend	NO	1	2,798.34	-	-	-	-	2,798.34	2,798.34
6.3.25	DI DN600xDN250, PN16 flanged Concentric Reducer	NO	1	6,995.86	-	-	-	-	6,995.86	6,995.86
6.3.26	DI DN300xDN250, PN16 flanged Eccentric Reducer	NO	4	1,998.82	-	-	-	-	1,998.82	7,995.28
6.3.27	DI DN250xDN200, PN16 flanged Concentric Reducer	NO	4	1,798.93	-	-	-	-	1,798.93	7,195.72
6.3.28	DI DN100xDN65, PN16 flanged Concentric Reducer	NO	2	399.76	-	-	-	-	399.76	799.52
6.3.29	DI DN300, PN16 Blind Flange	NO	2	1,399.17	-	-	-	-	1,399.17	2,798.34
6.3.30	DI DN250, PN16 Blind Flange	NO	2	1,199.29	-	-	-	-	1,199.29	2,398.58

PROJECT: WATER SECURITY MEGA RESERVOIR	BILL OF QUANTITIES	BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A	Supply of Pipes, Fittings, Valves and Accessories	Rev. 03

ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.3.31	DI DN500, PN16 Blind Flange	NO	1	3,198.11	-	-	-	-	3,198.11	3,198.11
6.3.32	DI DN100, PN16 flanged Y Tee	NO	1	999.41	-	-	-	-	999.41	999.41
6.3.33	DI DN100, PN16 Flanged 45° bend	NO	2	719.57	-	-	-	-	719.57	1,439.14
6.3.34	DI DN600, PN16 Double Flanged Pipe L=750mm	NO	6	12,430.81	-	-	-	-	12,430.81	74,584.86
6.3.35	DI DN600, PN16 Double Flanged Pipe L=500mm	NO	1	10,663.82	-	-	-	-	10,663.82	10,663.82
6.3.36	DI DN500, PN16 Double Flanged Pipe L=600mm	NO	1	11,766.96	-	-	-	-	11,766.96	11,766.96
6.3.37	DI DN500, PN16 Double Flanged Pipe L=850mm	NO	5	12,449.30	-	-	-	-	12,449.30	62,246.50
6.3.38	DI DN500, PN16 Double Flanged Pipe L=750mm	NO	1	12,174.59	-	-	-	-	12,174.59	12,174.59
6.3.39	DI DN500, PN16 Double Flanged Pipe L=550mm	NO	1	11,635.52	-	-	-	-	11,635.52	11,635.52
6.3.40	DI DN300, PN16 Double Flanged Pipe L=500mm	NO	4	2,332.54	-	-	-	-	2,332.54	9,330.16
6.3.41	DI DN250, PN16 Double Flanged Pipe L=300mm	NO	4	1,672.70	-	-	-	-	1,672.70	6,690.80
6.3.42	DI DN100, PN16 Double Flanged Pipe L=1300mm	NO	1	1,479.13	-	-	-	-	1,479.13	1,479.13
6.3.43	DI DN100, PN16 Double Flanged Pipe L=1000	NO	2	991.33	-	-	-	-	991.33	1,982.66
6.3.44	DI DN100, PN16 Double Flanged Pipe L=200mm	NO	4	1,099.37	-	-	-	-	1,099.37	4,397.48

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.3.45	DI DN250, PN16 Double Flanged Pipe L=800mm	NO	1	2,958.25	-	-	-	-	2,958.25	2,958.25
6.3.46	DI DN250, PN16 Double Flanged Pipe L=500mm	NO	1	2,718.39	-	-	-	-	2,718.39	2,718.39
6.3.47	DI DN600, PN16 Flange spigot pipe with central puddle flange L=2000mm	NO	1	15,191.00	-	-	-	-	15,191.00	15,191.00
6.3.48	DI DN500, PN16 Flange spigot pipe with central puddle flange L=2000mm	NO	1	10,793.61	-	-	-	-	10,793.61	10,793.61
6.3.49	DI DN100, PN16 Flange spigot pipe with central puddle flange L=2000mm	NO	1	1,798.93	-	-	-	-	1,798.93	1,798.93
	Subtotal for 6.3									1,329,401.46

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.4	**Utility Pump Station Pipe Work. Reference drawing No. MQ174-R1-DH-CI-6440 to MQ174-R1-DH-CI-6442**									
6.4.1	DN200, Flanged Gate Valve	NO	9	-	3,200.99	-	-	-	3,200.99	28,808.91
6.4.2	DN 200 Flanged Swing Check Valve.	NO	2	-	31,529.01	-	-	-	31,529.01	63,058.02
6.4.3	DN 150, Flanged Gate Valve	NO	2	-	2,060.79	-	-	-	2,060.79	4,121.58
6.4.4	Automatic Air Release Valve	NO	1	11,080.88	-	-	-	-	11,080.88	11,080.88
6.4.5	DN 150, Flanged Flow Meter 500 to 2000 GPM Flow Range	NO	1	-	15,446.85	-	-	-	15,446.85	15,446.85
6.4.6	DN 150, Flanged Main Relief Valve, Angled 200PSI Max Adjustment	NO	1	-	3,997.63	-	-	-	3,997.63	3,997.63
6.4.7	DN 150x200 mm Flanged Waste Cone	NO	1	-	2,798.34	-	-	-	2,798.34	2,798.34
6.4.8	DN 50 Jockey Pump discharge and Suction Gate Valve, Threaded	NO	4	-	399.76	-	-	-	399.76	1,599.04
6.4.9	DN 50 Jockey Pump Check Valve, Threaded	NO	2	-	399.76	-	-	-	399.76	799.52
6.4.10	DN 200x150mm Welded Concentric Reducer	NO	3	1,399.17	-	-	-	-	1,399.17	4,197.51
6.4.11	Reducing Coupling 50x32mms, Threaded	NO	4	219.89	-	-	-	-	219.89	879.56
6.4.12	DN 200x200 mm, Welded equal Tee	NO	2	2,198.70	-	-	-	-	2,198.70	4,397.40
6.4.13	DN 200x150mm, Welded reducing Tee	NO	2	2,198.70	-	-	-	-	2,198.70	4,397.40

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.4.14	DN 200 mm Elbow 90°, Welded	NO	10	1,798.93	-	-	-	-	1,798.93	17,989.30
6.4.15	DN 150 mm Elbow 90°, Welded	NO	8	1,199.29	-	-	-	-	1,199.29	9,594.32
6.4.16	Elbow 90° 50mms,, Threaded	NO	6	219.89	-	-	-	-	219.89	1,319.34
6.4.17	DN 200 mm Blind Flange	NO	4	999.41	-	-	-	-	999.41	3,997.64
6.4.18	DN 200mm Carbon Steel Pipe (Approx. length)	LM	40	439.74	-	-	-	-	439.74	17,589.60
6.4.19	DN 150 mm Carbon Steel Pipe (Approx. length)	LM	15	307.84	-	-	-	-	307.84	4,617.60
6.4.20	DN 50 mm Carbon Steel Pipe (Approx. length)	LM	12	199.88	-	-	-	-	199.88	2,398.56
6.4.21	DN 200 mm DI Flanged Bellmouth	NO	2	1,599.05	-	-	-	-	1,599.05	3,198.10
6.4.22	DN 200 mm DI double flanged pipe 409 mm long	NO	2	2,318.62	-	-	-	-	2,318.62	4,637.24
6.4.23	DN 200 mm DI double flanged 90° Elbow	NO	2	1,798.93	-	-	-	-	1,798.93	3,597.86
6.4.24	DN 200 mm DI Dismantling Joint	NO	2	999.41	-	-	-	-	999.41	1,998.82
6.4.25	DN 200 mm DI double flanged spool pipe.	NO	2	3,198.11	-	-	-	-	3,198.11	6,396.22
6.4.26	DN 200 mm DI all flanged Tee	NO	4	2,198.70	-	-	-	-	2,198.70	8,794.80
6.4.27	DN 200 mm DI flanged/spigot pipe 1198 mm long.	NO	1	2,598.46	-	-	-	-	2,598.46	2,598.46
6.4.28	DN 200 mm DI double flanged pipe suit to site.	NO	4	3,198.11	-	-	-	-	3,198.11	12,792.44

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.4.29	DN 150 mm DI flanged/spigot pipe 540 mm long.	NO	1	1,918.86	-	-	-	-	1,918.86	1,918.86
6.4.30	DN 200 mm DI double flanged 11.25° Bend	NO	2	1,599.05	-	-	-	-	1,599.05	3,198.10
6.4.31	DN 150 mm DI double flanged 11.25° Bend	NO	2	1,399.17	-	-	-	-	1,399.17	2,798.34
6.4.32	DN 150 mm DI double flanged 90° Elbow	NO	2	1,199.29	-	-	-	-	1,199.29	2,398.58
6.4.33	DN 150 mm DI double flanged pipe suit to site.	NO	1	2,398.58	-	-	-	-	2,398.58	2,398.58
	Potable Water									
6.4.34	DN 150 mm DI double flanged pipe 2000 mm long	NO	1	3,361.23	-	-	-	-	3,361.23	3,361.23
6.4.35	DN 150 mm DI double flanged pipe 1400 mm long	NO	1	3,025.08	-	-	-	-	3,025.08	3,025.08
6.4.36	DN 150 mm DI double flanged pipe 500 mm long	NO	1	2,400.18	-	-	-	-	2,400.18	2,400.18
6.4.37	DN 150 mm DI double flanged pipe 250 mm long	NO	1	2,280.26	-	-	-	-	2,280.26	2,280.26
6.4.38	DN 100 mm DI double flanged pipe 250 mm long	NO	3	4,742.07	-	-	-	-	4,742.07	14,226.21
6.4.39	DN 100 mm DI double flanged pipe 1000 mm long	NO	1	3,808.28	-	-	-	-	3,808.28	3,808.28
6.4.40	DN 100x80 mm DI Reducing Tee	NO	1	977.33	-	-	-	-	977.33	977.33
6.4.41	DN 50, Flanged Gate Valve	NO	1	-	2,718.26	-	-	-	2,718.26	2,718.26
6.4.42	DN 50, Flanged Air Valve	NO	1	4,480.10	-	-	-	-	4,480.10	4,480.10
6.4.43	DN150 Motorized Butterfly Valve	NO	1	-	26,596.23	-	-	-	26,596.23	26,596.23

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.4.44	DN150 DI Dismantling Joint	NO	1	596.47	-	-	-	-	596.47	596.47
6.4.45	DN 150 mm DI 90° Bend	NO	10	1,199.29	-	-	-	-	1,199.29	11,992.90
6.4.46	DN 100 mm DI 90° Bend	NO	2	799.53	-	-	-	-	799.53	1,599.06
6.4.47	DN 100 Motorized Butterfly Valve	NO	1	-	3,597.87	-	-	-	3,597.87	3,597.87
6.4.48	DN 100 DI Dismantling Joint	NO	1	571.09	-	-	-	-	571.09	571.09
6.4.49	DN 150 mm DI Flanged Bellmouth	NO	1	1,599.05	-	-	-	-	1,599.05	1,599.05
6.4.50	DN 150 mm DI double flanged pipe 1314 mm long	NO	1	2,478.54	-	-	-	-	2,478.54	2,478.54
6.4.51	DN 150 mm DI double flanged pipe 1163 mm long with IPF	NO	1	2,158.72	-	-	-	-	2,158.72	2,158.72
6.4.52	DN 150 DI Dismantling Joint	NO	1	596.47	-	-	-	-	596.47	596.47
6.4.53	DN 150 mm DI double flanged pipe 600 mm long	NO	1	2,158.72	-	-	-	-	2,158.72	2,158.72
6.4.54	DN 150 mm DI double flanged pipe 680 mm long	NO	1	2,158.72	-	-	-	-	2,158.72	2,158.72
6.4.55	DN 200 mm DI flanged spigot pipe 1020 mm long with IPF	NO	2	2,998.22	-	-	-	-	2,998.22	5,996.44
	Subtotal for 6.4									359,192.61

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING GS WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.5	**Supply of Carbon Steel Pipes & Fittings (Process Pipe Work)**									
	Supply of the following PN16 Carbon Steel Pressure pipes complete with fitting accessories, external coating, internal lining, wrapping and polyethylene sleeving all to project technical specification and in accordance with General Specifications of Main Laying materials. Scope includes the supply of spare parts and all other equipment in accordance with KAHRAMAA requirements and standards. Reference drawing No. MQ174-R1-DH-CI-3050 to MQ174-R1-DH-CI-3076 and MQ174-R1-DH-CI-9100 to MQ174-R1-DH-CI-9122									
6.5.1	2400 mm dia. pipes as specified	LM	0	11,031.64	-	-	-	-	11,031.64	-
6.5.2	2400x2200 mm dia. Reducer	NO	0	49,354.36	-	-	-	-	49,354.36	-
6.5.3	2200 mm dia. pipes as specified	LM	1723	9,295.87	-	-	-	-	9,295.87	16,016,784.01
6.5.4	2200 mm dia. welded 90° bends	NO	4	173,546.10	-	-	-	-	173,546.10	694,184.40
6.5.5	2200 mm dia. welded 45° bends	NO	2	84,144.46	-	-	-	-	84,144.46	168,288.92
6.5.6	2200 mm dia. welded 11.25° bends	NO	2	74,450.96	-	-	-	-	74,450.96	148,901.92
6.5.7	2200x2000 mm dia. Reducer	NO	4	45,339.22	-	-	-	-	45,339.22	181,356.88
6.5.8	2200x1200mm dia. unequal Tee	NO	16	50,926.08	-	-	-	-	50,926.08	814,817.28
6.5.9	2000 mm dia. pipe as specified	LM	1,600	7,937.20	-	-	-	-	7,937.20	12,699,520.00

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.5.10	2000 mm dia. equal Tee	NO	5	47,972.83	-	-	-	-	47,972.83	239,864.15
6.5.11	2000x1200mm dia. unequal Tee	NO	16	45,141.86	-	-	-	-	45,141.86	722,269.76
6.5.12	2000 mm dia. Steel Blind Flange	NO	2	40,101.70	-	-	-	-	40,101.70	80,203.40
6.5.13	1200 mm dia. Blind Flange	NO	16	10,884.87	-	-	-	-	10,884.87	174,157.92
	Subtotal for 6.5									31,940,348.64

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.6	**Supply of DI Pipes & Fittings**									
	Supply of the following class K9 of PN16 D.I Pipes of BS 545 Pressure pipes Socket/Spigot, K12 for fittings and K14 for tees only complete with fitting accessories, external coating, internal lining, wrapping and polyethylene sleeving all to project technical specification and in accordance with General Specifications of Main Laying materials. Scope includes the supply of spare parts and all other equipment in accordance with KAHRAMAA requirements and standards. Reference drawing No. MQ174-R1-DH-CI-3050 to MQ174-R1-DH-CI-3076 and MQ174-R1-DH-CI-9100 to MQ174-R1-DH-CI-9122									
6.6.1	1600 mm dia. pipe as specified.	LM	4190	5,064.99	-	-	-	-	5,064.99	21,222,308.10
6.6.2	1600mm dia. socketed 45° bends	NO	34	62,564.07	-	-	-	-	62,564.07	2,127,178.38
6.6.3	1600mm dia. socketed 22.5° bends	NO	2	51,834.47	-	-	-	-	51,834.47	103,668.94
6.6.4	1600mm dia. socketed 11.25° bends	NO	4	48,409.45	-	-	-	-	48,409.45	193,637.80
6.6.5	1600 mm dia. equal Tee	NO	2	106,440.26	-	-	-	-	106,440.26	212,880.52
6.6.6	1600 x 900 mm dia. unequal Tee (Included with Surge Vessle	NO	0	51,867.27	-	-	-	-	51,867.27	-
6.6.7	1400 mm dia. pipe as specified	LM	310	4,013.90	-	-	-	-	4,013.90	1,244,309.00

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCC) | TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.6.8	1400mm dia. socketed 45° bends	NO	11	44,951.63	-	-	-	-	44,951.63	494,467.93
6.6.9	1400mm dia. socketed 22.5° bends	NO	1	34,578.18	-	-	-	-	34,578.18	34,578.18
6.6.10	1400x1200 mm dia. Reducer	NO	2	34,578.18	-	-	-	-	34,578.18	69,156.36
6.6.11	1200 mm dia. pipe as specified	LM	3850	3,051.23	-	-	-	-	3,051.23	11,747,235.50
6.6.12	1200mm dia. socketed 90° bends	NO	16	37,496.26	-	-	-	-	37,496.26	599,940.16
6.6.13	1200mm dia. socketed 45° bends	NO	35	22,688.12	-	-	-	-	22,688.12	794,084.20
6.6.14	1200mm dia. socketed 22.5° bends	NO	12	16,241.97	-	-	-	-	16,241.97	194,903.64
6.6.15	1200mm dia. socketed 11.25° bends	NO	5	13,362.26	-	-	-	-	13,362.26	66,811.30
6.6.16	1200 mm dia. equal Tee	NO	12	31,604.34	-	-	-	-	31,604.34	379,252.08
6.6.17	1200 mm dia. Flange Socket	NO	16	29,284.89	-	-	-	-	29,284.89	468,558.24
6.6.18	900 mm dia. pipe as specified	LM	100	1,909.00	-	-	-	-	1,909.00	190,900.00
6.6.19	900mm dia. socketed 45° bends	NO	0	13,645.41	-	-	-	-	13,645.41	-
6.6.20	800 mm dia.as specified	LM	1965	1,587.44	-	-	-	-	1,587.44	3,119,319.60

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.6.21	800mm dia. socketed 90° bends	NO	4	12,440.50	-	-	-	-	12,440.50	49,762.00
6.6.22	800mm dia. socketed 45° bends	NO	12	10,530.77	-	-	-	-	10,530.77	126,369.24
6.6.23	800mm dia. socketed 11.25° bends	NO	2	10,027.65	-	-	-	-	10,027.65	20,055.30
6.6.24	800 mm dia. equal Tee	NO	16	15,537.09	-	-	-	-	15,537.09	248,593.44
6.6.25	800 mm dia. Endcap	NO	2	9,336.09	-	-	-	-	9,336.09	18,672.18
6.6.26	600 mm dia. as specified	LM	930	1,026.66	-	-	-	-	1,026.66	954,793.80
6.6.27	600mm dia. socketed 90° bends	NO	3	7,361.90	-	-	-	-	7,361.90	22,085.70
6.6.28	600mm dia. socketed 45° bends	NO	5	5,958.21	-	-	-	-	5,958.21	29,791.05
6.6.29	600mm dia. socketed 22.5° bends	NO	3	4,879.82	-	-	-	-	4,879.82	14,639.46
6.6.30	600mm dia. socketed 11.25° bends	NO	1	4,578.61	-	-	-	-	4,578.61	4,578.61
6.6.31	600 mm dia. equal Tee	NO	1	9,657.25	-	-	-	-	9,657.25	9,657.25
6.6.32	500 mm and as detailed above	LM	270	789.70	-	-	-	-	789.70	213,219.00
6.6.33	500mm dia. socketed 90° bends	NO	2	6,224.07	-	-	-	-	6,224.07	12,448.14

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.6.34	5600mm dia. socketed 45° bends	NO	2	5,532.51	-	-	-	-	5,532.51	11,065.02
6.6.35	350 mm dia. as specified	LM	160	488.23	-	-	-	-	488.23	78,116.80
6.6.36	350 mm dia. socketed 90° bends	NO	2	2,650.76	-	-	-	-	2,650.76	5,301.52
6.6.37	350 mm dia. equal Tee	NO	2	4,789.44	-	-	-	-	4,789.44	9,578.88
6.6.38	250 mm dia. as specified	LM	15	311.26	-	-	-	-	311.26	4,668.90
6.6.39	250 mm dia. socketed 45° bends	NO	2	819.33	-	-	-	-	819.33	1,638.66
6.6.40	200 mm dia. as specified	LM	70	238.93	-	-	-	-	238.93	16,725.10
6.6.41	200 mm dia. socketed 90° bends	NO	1	662.70	-	-	-	-	662.70	662.70
6.6.42	200 mm dia. socketed 45° bends	NO	1	530.13	-	-	-	-	530.13	530.13
6.6.43	150 mm dia. as specified	LM	66	177.74	-	-	-	-	177.74	11,730.84
6.6.44	150 mm dia. socketed 90° bends	NO	4	427.74	-	-	-	-	427.74	1,710.96
6.6.45	150 mm dia. equal Tee	NO	3	578.36	-	-	-	-	578.36	1,735.08
	Subtotal for 6.6									45,131,319.69

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	SUPPLY OF PIPE WORK - PIPEWORK ANCILLARIES **Supply of the following Ductile Iron/ Carbon Steel pipes, fittings, valves and Flow Meters for following chambers, complete with fitting accessories, external coating, wrapping and polyethylene sleeving all to project technical specification and in accordance with General Specifications of Main Laying materials.**									
6.7	**Reservoir Distribution Inlet chamber for Eight pipes (4xDN1600, 2xDN1200 and 2xDN800) Reference drawing No. MQ174-R1-DH-CI-6020 (2 nr Chambers)**									
6.7.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.7.2	DN1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.7.3	DN1600 DI Flanged/Spigot pipe 1800 mm long with IPF.	NO	16	86,035.40	-	-	-	-	86,035.40	1,376,566.40
6.7.4	DN1600 DI Flanged/Spigot pipe 1800 mm long with IPF 873 from flange.	NO	0	86,035.40	-	-	-	-	86,035.40	-
6.7.5	DN1600mm dismantling joint	NO	4	28,167.38	-	-	-	-	28,167.38	112,669.52
6.7.6	DN1600mm BV with extension spindle	NO	4	-	254,772.19	-	-	-	254,772.19	1,019,088.76

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.7.7	DN 1600 DI double flange pipe 1136 mm long with 3 nr Bosses	NO	4	83,535.23	-	-	-	-	83,535.23	334,140.92
6.7.8	DN1600 DI Blank Flange	NO	8	28,194.49	-	-	-	-	28,194.49	225,555.92
6.7.9	DN1200 DI Socket Collar	NO	8	24,212.33	-	-	-	-	24,212.33	193,698.64
6.7.10	DN1200 DI Rocker Pipe (Double spigot pipe 2400 mm long)	NO	4	44,327.99	-	-	-	-	44,327.99	177,311.96
6.7.11	DN1200 DI Flanged/Spigot pipe 1800 mm long with IPF .	NO	4	29,881.34	-	-	-	-	29,881.34	119,525.36
6.7.12	DN1200 DI Flanged/Spigot pipe 2025 mm long with IPF.	NO	4	34,664.78	-	-	-	-	34,664.78	138,659.12
6.7.13	DN 1200 DI double flange pipe 1374 mm long with 3 nr Bosses	NO	4	28,917.40	-	-	-	-	28,917.40	115,669.60
6.7.14	DN1200mm BV with extension spindle	NO	4	-	138,765.10	-	-	-	138,765.10	555,060.40
6.7.15	DN1200mm dismantling joint	NO	4	14,810.65	-	-	-	-	14,810.65	59,242.60
6.7.16	DN 800 DI Socket Collar	NO	4	10,795.80	-	-	-	-	10,795.80	43,183.20
6.7.17	DN 800 DI Flanged/Spigot pipe 2092 mm long with IPF.	NO	4	16,970.92	-	-	-	-	16,970.92	67,883.68
6.7.18	DN 800 DI Flanged/Spigot pipe 2076 mm long with IPF.	NO	4	16,970.92	-	-	-	-	16,970.92	67,883.68

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.7.19	DN 800 DI Flanged/Spigot pipe 1800 mm long with IPF 881 mm from flange.	NO	0	16,157.63	-	-	-	-	16,157.63	-
6.7.20	DN 800 DI double flange pipe 885 mm long.	NO	0	12,187.48	-	-	-	-	12,187.48	-
6.7.21	DN 800 DI double flange pipe 1200 mm long.	NO	4	12,820.08	-	-	-	-	12,820.08	51,280.32
6.7.22	DN 800mm BV with extension spindle	NO	4	-	64,050.60	-	-	-	64,050.60	256,202.40
6.7.23	DN 800mm dismantling joint	NO	4	5,745.12	-	-	-	-	5,745.12	22,980.48
6.7.24	DN 800mm Flow Control Valve	NO	0	-	56,673.23	-	-	-	56,673.23	-
6.7.25	Motorized Actuator pillar with extension spindle	NO	12	-	-	-	-	-	-	Included
6.7.26	DN1600 DI Flange Adaptor	NO	4	27,662.54	-	-	-	-	27,662.54	110,650.16
	Subtotal for 6.7									5,736,861.48

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.8	**Reservoir Distribution outlet chamber for single DN2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6021 (2 nr Chambers)**									
6.8.1	DN 2200mm BV with extension spindle	NO	2	-	657,701.34	-	-	-	657,701.34	1,315,402.68
6.8.2	DN 2200mm dismantling joint	NO	2	75,228.06	-	-	-	-	75,228.06	150,456.12
6.8.3	DN 2200mm Steel Flanged/Spigot pipe 1962 mm long with IPF 942 mm from flange.	NO	4	159,781.44	-	-	-	-	159,781.44	639,125.76
6.8.4	DN 2200mm Steel Flexible Coupling	NO	4	27,961.75	-	-	-	-	27,961.75	111,847.00
6.8.5	DN 2200 Steel Spigot pipe 2086 mm long	NO	2	7,989.07	-	-	-	-	7,989.07	15,978.14
6.8.6	Motorized Actuator pillar with extension spindle	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.8									2,232,809.70

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.9	**Reservoir Inlet chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6022 (4 nr Chambers)**									
6.9.1	DN 1200 DI Socket Collar	NO	8	24,212.33	-	-	-	-	24,212.33	193,698.64
6.9.2	DN 1200 DI Rocker Pipe (Double spigot pipe 1800 mm long)	NO	4	26,941.42	-	-	-	-	26,941.42	107,765.68
6.9.3	DN 1200 DI Flanged/Spigot pipe 1798 mm long with IPF 872 mm from flange.	NO	4	27,778.81	-	-	-	-	27,778.81	111,115.24
6.9.4	DN 1200mm BV with extension spindle	NO	4	-	138,798.19	-	-	-	138,798.19	555,192.76
6.9.5	DN 1200 DI Dismantling Joint	NO	4	14,810.65	-	-	-	-	14,810.65	59,242.60
6.9.6	DN 1200 DI double Flanged pipe 1000 mm long with 3 nr bosses.	NO	4	23,194.19	-	-	-	-	23,194.19	92,776.76
6.9.7	DN 1200 DI double Flanged pipe 1345 mm long .	NO	4	28,327.03	-	-	-	-	28,327.03	113,308.12
6.9.8	DN 1200 DI Flanged Bell Mouth.	NO	4	11,091.01	-	-	-	-	11,091.01	44,364.04
6.9.9	Motorized Actuator pillar with extension spindle	NO	4	-	-	-	-	-	-	Included
	Subtotal for 6.9									1,277,463.84

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6,10	**Reservoir Scour, Outlet & Inlet chamber Reference drawing No. MQ174-R1-DH-CI-6023- 6025 (4 nr Chambers)**									
6.10.1	DN 800 DI Socket Collar	NO	16	10,795.80	-	-	-	-	10,795.80	172,732.80
6.10.2	DN 800 DI Rocker Pipe (Double spigot pipe 1200mm long)	NO	8	11,066.91	-	-	-	-	11,066.91	88,535.28
6.10.3	DN 800 DI Flanged/Spigot pipe 1909 mm long with IPF 983 mm from flange.	NO	8	16,458.84	-	-	-	-	16,458.84	131,670.72
6.10.4	DN 800 mm DI all flanged equal tee	No	8	15,537.09	-	-	-	-	15,537.09	124,296.72
6.10.5	DN 800 DI double flange pipe 1467 mm long.	NO	4	13,573.12	-	-	-	-	13,573.12	54,292.48
6.10.6	DN 800 DI double flange pipe 1236 mm long.	NO	4	12,820.08	-	-	-	-	12,820.08	51,280.32
6.10.7	DN 800 DI double flange pipe 1419 mm long.	NO	4	13,573.12	-	-	-	-	13,573.12	54,292.48
6.10.8	DN 800 DI double flange pipe 574 mm long.	NO	8	11,066.91	-	-	-	-	11,066.91	88,535.28
6.10.9	DN 800 DI double flange pipe 769 mm long.	NO	8	12,187.48	-	-	-	-	12,187.48	97,499.84
6.10.10	DN 800 DI double flange pipe 1091 mm long.	NO	4	12,820.08	-	-	-	-	12,820.08	51,280.32
6.10.11	DN 800 DI double flange pipe 3070 mm long.	NO	4	28,574.04	-	-	-	-	28,574.04	114,296.16

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.10.12	DN 800 DI double flange pipe 2419 mm long.	NO	4	26,820.94	-	-	-	-	26,820.94	107,283.76
6.10.13	DN 800mm BV with extension spindle	NO	16	-	64,050.57	-	-	-	64,050.57	1,024,809.12
6.10.14	DN 800mm dismantling joint	NO	16	5,745.12	-	-	-	-	5,745.12	91,921.92
6.10.15	DN 800 DI flange Bell Mouth	NO	8	10,500.64	-	-	-	-	10,500.64	84,005.12
6.10.16	DN 800 DI flanged Elbow	NO	8	16,085.31	-	-	-	-	16,085.31	128,682.48
6.10.17	DN 1200x800 DI All Flanged Unequal Tee	NO	4	32,580.29	-	-	-	-	32,580.29	130,321.16
6.10.18	DN1200 DI Socket Collar	NO	44	24,212.33	-	-	-	-	24,212.33	1,065,342.52
6.10.19	DN1200 DI Rocker Pipe (Double spigot pipe 1800 mm long)	NO	20	26,941.42	-	-	-	-	26,941.42	538,828.40
6.10.20	DN1200 DI Double spigot pipe 3002 mm long	NO	4	51,003.13	-	-	-	-	51,003.13	204,012.52
6.10.21	DN1200 DI Flanged/Spigot pipe 2047 mm long with integral puddle flange 1121 from flange	NO	12	34,664.78	-	-	-	-	34,664.78	415,977.36
6.10.22	DN1200 DI Flanged/Spigot pipe 4401 mm long with integral puddle flange 3475 from flange	NO	4	84,547.34	-	-	-	-	84,547.34	338,189.36

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.10.23	DN1200 DI Flanged/Spigot pipe 1832 mm long with integral puddle flange 906 from flange	NO	4	31,694.72	-	-	-	-	31,694.72	126,778.88
6.10.24	DN1200 DI Flanged/Spigot pipe 4968 mm long with integral puddle flange 4042 from flange	NO	4	85,463.05	-	-	-	-	85,463.05	341,852.20
6.10.25	DN1200 DI Butterfly valve with extension spindle	NO	48	-	138,798.19	-	-	-	138,798.19	6,662,313.12
6.10.26	DN1200 DI Dismantling Joint	NO	48	14,810.65	-	-	-	-	14,810.65	710,911.20
6.10.27	DN1200 fabricated Steel All Flanged Cross	NO	8	219,699.48	-	-	-	-	219,699.48	1,757,595.84
6.10.28	DN 1200 x 800 mm fabricated Steel All Flanged Cross	NO	4	159,781.44	-	-	-	-	159,781.44	639,125.76
6.10.29	DN 1200 DI flanged Elbow	NO	8	55,105.74	-	-	-	-	55,105.74	440,845.92
6.10.30	DN1200 DI Double Flanged Pipe 3962 mm long with 1 nr Boss	NO	8	58,027.64	-	-	-	-	58,027.64	464,221.12
6.10.31	DN1200 DI Double Flanged Pipe 3665 mm long	NO	8	57,726.43	-	-	-	-	57,726.43	461,811.44
6.10.32	DN1200 DI Double Flanged Pipe 999 mm long with 4 nr Bosses	NO	8	29,519.89	-	-	-	-	29,519.89	236,159.12
6.10.33	DN1200 DI Double Flanged Pipe 999 mm long with 3 nr Bosses	NO	8	29,218.64	-	-	-	-	29,218.64	233,749.12

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.10.34	DN1200 DI Double Flanged Pipe 1306 mm long.	NO	8	28,327.03	-	-	-	-	28,327.03	226,616.24
6.10.35	DN 1200 DI flange Bell Mouth	NO	16	11,091.01	-	-	-	-	11,091.01	177,456.16
6.10.36	DN1200 fabricated Steel Flanged 'S' Bend	NO	8	139,808.76	-	-	-	-	139,808.76	1,118,470.08
6.10.37	DN1200 DI All Flanged Equal Tee	NO	4	31,604.34	-	-	-	-	31,604.34	126,417.36
6.10.38	DN1200 DI double Flanged pipe 2399 mm long with integral puddle flange 1132 from flange	NO	8	56,449.45	-	-	-	-	56,449.45	451,595.60
6.10.39	DN1200 DI Double socketed 45^0 rapid bend.	NO	8	31,120.36	-	-	-	-	31,120.36	248,962.88
6.10.40	Motorized Actuator pillar with extension spindle	NO	64	-	-	-	-	-	-	Included
	Subtotal for 6.10									19,582,968.16

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.11	**Reservoir Scour & Inlet chamber. Reference drawing No. MQ174-R1-DH-CI-6026 (4 nr Chambers)**									
6.11.1	DN 800 DI Socket Collar	NO	8	10,795.80	-	-	-	-	10,795.80	86,366.40
6.11.2	DN 800 DI Rocker Pipe (Double spigot pipe 1200mm long)	NO	4	11,066.91	-	-	-	-	11,066.91	44,267.64
6.11.3	DN 800 DI Flanged/Spigot pipe 2804 mm long with IPF 1885 mm from flange.	NO	4	27,483.60	-	-	-	-	27,483.60	109,934.40
6.11.4	DN 800 mm DI all flanged equal tee	No	4	15,537.09	-	-	-	-	15,537.09	62,148.36
6.11.5	DN 800mm BV with extension spindle	NO	8	-	64,050.57	-	-	-	64,050.57	512,404.56
6.11.6	DN 800mm dismantling joint	NO	8	5,745.12	-	-	-	-	5,745.12	45,960.96
6.11.7	DN 800 DI flange Bell Mouth	NO	4	10,500.64	-	-	-	-	10,500.64	42,002.56
6.11.8	DN 800 DI flanged Elbow	NO	4	16,085.31	-	-	-	-	16,085.31	64,341.24
6.11.9	DN 800 DI double flanged spool pipe 1933 mm long.	NO	4	15,753.96	-	-	-	-	15,753.96	63,015.84
6.11.10	DN 800 DI double flanged spool pipe 2003 mm long.	NO	4	11,886.27	-	-	-	-	11,886.27	47,545.08
6.11.11	DN 800 DI double flanged spool pipe 572 mm long.	NO	4	11,066.91	-	-	-	-	11,066.91	44,267.64
6.11.12	DN 800 DI double flanged spool pipe 773 mm long.	NO	4	12,187.48	-	-	-	-	12,187.48	48,749.92

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.11.13	DN1200 DI Socket Collar	NO	8	24,212.33	-	-	-	-	24,212.33	193,698.64
6.11.14	DN1200 DI Rocker Pipe (Double spigot pipe 1800 mm long)	NO	4	26,941.42	-	-	-	-	26,941.42	107,765.68
6.11.15	DN1200 DI Flanged/Spigot pipe 1835 mm long with integral puddle flange 909 from flange	NO	4	31,694.72	-	-	-	-	31,694.72	126,778.88
6.11.16	DN1200 DI Butterfly valve with extension spindle	NO	8	-	138,798.41	-	-	-	138,798.41	1,110,387.28
6.11.17	DN1200 DI Dismantling Joint	NO	8	14,810.65	-	-	-	-	14,810.65	118,485.20
6.11.18	DN 1200 DI flanged Elbow	NO	4	55,105.74	-	-	-	-	55,105.74	220,422.96
6.11.19	DN1200 DI Double Flanged Pipe 2570 mm long with IPF 1344 from flange	NO	4	56,750.44	-	-	-	-	56,750.44	227,001.76
6.11.20	DN 1200 DI flange Bell Mouth	NO	4	11,091.01	-	-	-	-	11,091.01	44,364.04
6.11.21	DN1200x800 mm DI All Flanged unequal Tee	NO	4	32,580.29	-	-	-	-	32,580.29	130,321.16
6.11.22	DN1200 DI Double Flanged Pipe 1000 mm long with 4 nr bosses.	NO	4	29,519.89	-	-	-	-	29,519.89	118,079.56
6.11.23	Motorized Actuator pillar with extension spindle	NO	16	-	-	-	-	-	-	Included
	Subtotal for 6.11									3,568,309.76

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.12	**Reservoir Distribution Overflow chamber. Reference drawing No. MQ174-R1-DH-CI-6027 (2 nr Chambers)**									
6.12.1	DN1600 DI Double spigot pipe 1442 mm long with IPF 388 from spigot	NO	10	79,342.21	-	-	-	-	79,342.21	793,422.10
6.12.2	DN1600 DI socket and spigot pipe 2636 mm long.	NO	10	38,036.00	-	-	-	-	38,036.00	380,360.00
6.12.3	DN1600 DI socket and spigot pipe 1250 mm long with IPF 120 from spigot end	NO	10	62,240.72	-	-	-	-	62,240.72	622,407.20
	Subtotal for 6.12									1,796,189.30

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.13	**Reservoir Overflow arrangement, Reference drawing No. MQ174-R1-DH-CI-6028 (12 nr points)**									
6.13.1	DN 900 DI flange Bell Mouth	NO	12	9,982.55	-	-	-	-	9,982.55	119,790.60
6.13.2	DN 900 DI flanged 90° bends	NO	24	24,224.38	-	-	-	-	24,224.38	581,385.12
6.13.3	DN 900 DI Double Flanged Pipe 2015 mm long with IPF 1014 from flange	NO	12	20,675.93	-	-	-	-	20,675.93	248,111.16
6.13.4	DN 900 DI Double Flanged Pipe 2432 mm long.	NO	12	32,194.74	-	-	-	-	32,194.74	386,336.88
6.13.5	DN 900 DI Flange spigot Pipe suit to site	NO	12	11,434.44	-	-	-	-	11,434.44	137,213.28
6.13.6	DN 900 DI Socketed Elbow	NO	12	19,320.43	-	-	-	-	19,320.43	231,845.16
6.13.7	DN 900 DI Double spigot spool Pipe 2000 mm long.	NO	12	14,663.52	-	-	-	-	14,663.52	175,962.24
6.13.8	DN 900 DI Socket Collar	NO	12	15,560.20	-	-	-	-	15,560.20	186,722.40
6.13.9	DN 900 DI Flange spigot Pipe 1400 mm long with IPF 550 mm from flange	NO	12	17,289.09	-	-	-	-	17,289.09	207,469.08
6.13.10	DN 900 Stainless Steel Flap Valve.	NO	12	8,945.92	-	-	-	-	8,945.92	107,351.04
	Subtotal for 6.13									2,382,186.96

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.14	**Valve chamber for single DN600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6391**									
6.14.1	DN 600 DI Socket Collar	NO	4	5,331.65	-	-	-	-	5,331.65	21,326.60
6.14.2	DN 600 DI Double spigot pipe 900 mm long.	NO	2	4,789.44	-	-	-	-	4,789.44	9,578.88
6.14.3	DN 600 DI Flanged/Spigot pipe 1800 mm long with IPF 800 mm from flange.	NO	2	18,838.53	-	-	-	-	18,838.53	37,677.06
6.14.4	DN 600mm BV with extension spindle	NO	1	-	46,526.92	-	-	-	46,526.92	46,526.92
6.14.5	DN 600mm dismantling joint	NO	1	3,810.28	-	-	-	-	3,810.28	3,810.28
6.14.6	Motorized Actuator pillar with extension spindle	NO	1	-	-	-	-	-	-	Included
	Subtotal for 6.14									118,919.74

KAHRAMAA GTC
SUBSIDIARY OF CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - QATAR

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.15	**Valve chamber for single DN 500 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6392**									
6.15.1	DN 500 mm DI Socket Collar	NO	4	3,825.49	-	-	-	-	3,825.49	15,301.96
6.15.2	DN 500 DI Double spigot pipe 750 mm long.	NO	3	4,668.96	-	-	-	-	4,668.96	14,006.88
6.15.3	DN 500 DI Flanged/Spigot pipe 1515 mm long with IPF 700 mm from flange.	NO	3	11,530.79	-	-	-	-	11,530.79	34,592.37
6.15.4	DN 500 DI Flanged/Spigot pipe 2135 mm long with IPF 1318 mm from flange.	NO	1	12,633.31	-	-	-	-	12,633.31	12,633.31
6.15.5	DN 500 mm BV with extension spindle	NO	2	-	37,402.16	-	-	-	37,402.16	74,804.32
6.15.6	DN 500 mm dismantling joint	NO	2	2,898.90	-	-	-	-	2,898.90	5,797.80
6.15.7	DN 500 mm DI all flanged cross	NO	1	11,856.14	-	-	-	-	11,856.14	11,856.14
6.15.8	DN 500 mm DI flanged Adaptor	NO	1	5,186.75	-	-	-	-	5,186.75	5,186.75
6.15.9	DN 500 mm DI Blank Flange	NO	1	927.76	-	-	-	-	927.76	927.76
6.15.10	DN 500x350 mm DI socketed concentric Taper	NO	2	4,861.73	-	-	-	-	4,861.73	9,723.46
	Subtotal for 6.15									184,830.75

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.16	**Valve chamber for single DN350 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6393**									
6.16.1	DN 350 mm DI Socket Collar	NO	4	2,060.39	-	-	-	-	2,060.39	8,241.56
6.16.2	DN 350 DI Double spigot pipe 525 mm long.	NO	2	3,500.22	-	-	-	-	3,500.22	7,000.44
6.16.3	DN 350 DI Flanged/Spigot pipe 1550 mm long with IPF 788 mm from flange.	NO	2	7,259.51	-	-	-	-	7,259.51	14,519.02
6.16.4	DN 500 DI Flanged/Spigot pipe 1690 mm long with IPF 930 mm from flange.	NO	1	11,530.79	-	-	-	-	11,530.79	11,530.79
6.16.5	DN 350 mm BV with extension spindle	NO	2	-	31,950.90	-	-	-	31,950.90	63,901.80
6.16.6	DN 350 mm dismantling joint	NO	2	1,679.28	-	-	-	-	1,679.28	3,358.56
6.16.7	DN 350 mm DI flanged equal Tee	NO	1	4,789.44	-	-	-	-	4,789.44	4,789.44
6.16.8	DN 350 mm DI flanged Adaptor	NO	1	3,457.82	-	-	-	-	3,457.82	3,457.82
6.16.9	DN 350 mm DI Blank Flange	NO	1	1,704.94	-	-	-	-	1,704.94	1,704.94
	Subtotal for 6.16									118,504.37

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.17	**Incoming By-Pass Valve chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6500 (2nr Chambers)**									
6.17.1	DN 1600 DI Socket Collar	NO	20	46,328.14	-	-	-	-	46,328.14	926,562.80
6.17.2	DN1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	10	79,745.81	-	-	-	-	79,745.81	797,458.10
6.17.3	DN1600 DI Flanged/Spigot pipe 2100 mm long with IPF 1020 from flange.	NO	16	86,565.57	-	-	-	-	86,565.57	1,385,049.12
6.17.4	DN1600 DI Flanged/Spigot pipe 1892 mm long with IPF 962 from flange.	NO	2	86,035.40	-	-	-	-	86,035.40	172,070.80
6.17.5	DN1600 DI double Flanged pipe 4233 mm long.	NO	4	170,317.64	-	-	-	-	170,317.64	681,270.56
6.17.6	DN1600 DI double Flanged pipe 1024 mm long.	NO	4	68,215.02	-	-	-	-	68,215.02	272,860.08
6.17.7	DN1600 DI double Flanged pipe 1647 mm long.	NO	4	82,631.57	-	-	-	-	82,631.57	330,526.28
6.17.8	DN1600 DI double Flanged pipe 3407 mm long.	NO	2	172,781.59	-	-	-	-	172,781.59	345,563.18
6.17.9	DN1600 DI double Flanged pipe 3494 mm long.	NO	2	172,781.59	-	-	-	-	172,781.59	345,563.18
6.17.10	DN1600 DI flange equal tee	NO	8	106,440.26	-	-	-	-	106,440.26	851,522.08
6.17.11	DN1600mm BV with extension spindle	NO	8	-	254,805.46	-	-	-	254,805.46	2,038,443.68
6.17.12	DN1600mm dismantling joint	NO	8	28,167.38	-	-	-	-	28,167.38	225,339.04
6.17.13	DN 1600 DI flanged 90° bend.	NO	4	114,964.89	-	-	-	-	114,964.89	459,859.56

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.17.14	DN 1600x1200 mm DI flanged unequal tee	NO	2	102,644.83	-	-	-	-	102,644.83	205,289.66
6.17.15	DN1200 DI Socket Collar	NO	8	24,212.33	-	-	-	-	24,212.33	193,698.64
6.17.16	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	N0	4	26,941.42	-	-	-	-	26,941.42	107,765.68
6.17.17	DN1200 DI Flanged/Spigot pipe 2100 mm long with integral puddle flange.	NO	2	29,881.34	-	-	-	-	29,881.34	59,762.68
6.17.18	DN1200 DI Flanged/Spigot pipe 2100 mm long with integral puddle flange 1024 from flange.	NO	2	34,664.78	-	-	-	-	34,664.78	69,329.56
6.17.19	DN1200 DI double Flanged pipe 5000 mm long.	NO	2	73,293.66	-	-	-	-	73,293.66	146,587.32
6.17.20	DN1200 DI double Flanged pipe 2131 mm long.	NO	2	31,869.44	-	-	-	-	31,869.44	63,738.88
6.17.21	DN1200 DI double Flanged pipe 1557 mm long.	NO	2	28,327.03	-	-	-	-	28,327.03	56,654.06
6.17.22	DN1200mm BV with extension spindle	NO	4	-	138,798.19	-	-	-	138,798.19	555,192.76
6.17.23	DN1200mm dismantling joint	NO	4	14,810.65	-	-	-	-	14,810.65	59,242.60
6.17.24	DN 1200 DI flanged 90° bend.	NO	4	55,105.74	-	-	-	-	55,105.74	220,422.96
6.17.25	Motorized Actuator Pillar with extension spindle.	NO	12	-	-	-	-	-	-	Included
6.17.26	DN1200 DI flange equal tee	NO	2	31,604.34	-	-	-	-	31,604.34	63,208.68
6.17.27	DN 1600 DI flanged Adaptor.	NO	8	27,662.54	-	-	-	-	27,662.54	221,300.32
6.17.28	DN 1600 DI Blank flange.	NO	18	28,194.49	-	-	-	-	28,194.49	507,500.82
	Subtotal for 6.17									11,361,783.08

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.18	**Incoming By-Pass Valve chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6501**									
6.18.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.18.2	DN1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.18.3	DN1600 DI Flanged/Spigot pipe 2100 mm long with IPF 1020 from flange.	NO	8	86,565.57	-	-	-	-	86,565.57	692,524.56
6.18.4	DN1600 DI double Flanged pipe 3433 mm long.	NO	2	172,781.59	-	-	-	-	172,781.59	345,563.18
6.18.5	DN1600 x DN 1200 DI Flanged unequal Tee.	NO	2	102,644.83	-	-	-	-	102,644.83	205,289.66
6.18.6	DN1600mm BV with extension spindle	NO	2	-	254,805.39	-	-	-	254,805.39	509,610.78
6.18.7	DN1600mm dismantling joint	NO	2	28,167.38	-	-	-	-	28,167.38	56,334.76
6.18.8	DN1200 DI Socket Collar	NO	6	24,212.33	-	-	-	-	24,212.33	145,273.98
6.18.9	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	N0	3	26,941.42	-	-	-	-	26,941.42	80,824.26
6.18.10	DN1200 DI Flanged/Spigot pipe 2400 mm long with integral puddle flange 1324 from flange.	NO	1	54,280.44	-	-	-	-	54,280.44	54,280.44
6.18.11	DN1200 DI Flanged/Spigot pipe 2100 mm long with integral puddle flange 1024 from flange.	NO	1	34,664.78	-	-	-	-	34,664.78	34,664.78

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.18.12	DN1200 DI Flanged/Spigot pipe 1467 mm long with integral puddle flange 1041 from flange.	NO	1	27,778.81	-	-	-	-	27,778.81	27,778.81
6.18.13	DN1200 DI double Flanged pipe 3749 mm long.	NO	1	57,726.43	-	-	-	-	57,726.43	57,726.43
6.18.14	DN1200 DI double Flanged pipe 4044 mm long.	NO	1	60,582.01	-	-	-	-	60,582.01	60,582.01
6.18.15	DN1200 DI double Flanged pipe 1489 mm long.	NO	1	28,327.03	-	-	-	-	28,327.03	28,327.03
6.18.16	DN1200 DI double Flanged pipe 1784 mm long.	NO	1	29,013.82	-	-	-	-	29,013.82	29,013.82
6.18.17	DN1200 DI double Flanged pipe 4196 mm long.	NO	1	60,582.01	-	-	-	-	60,582.01	60,582.01
6.18.18	DN1200 DI double Flanged pipe 1557 mm long.	NO	1	28,327.03	-	-	-	-	28,327.03	28,327.03
6.18.19	DN1200 DI double Flanged pipe 1784 mm long with 1 nr Boss.	NO	1	29,315.03	-	-	-	-	29,315.03	29,315.03
6.18.20	DN1200mm BV with extension spindle	NO	4	-	138,798.19	-	-	-	138,798.19	555,192.76
6.18.21	DN1200mm dismantling joint	NO	4	14,810.65	-	-	-	-	14,810.65	59,242.60
6.18.22	DN 1200 DI flanged 90° bend.	NO	3	55,105.74	-	-	-	-	55,105.74	165,317.22
6.18.23	DN1200 DI flange equal tee	NO	5	31,604.34	-	-	-	-	31,604.34	158,021.70
6.18.24	DN 1600 DI flanged Adaptor.	NO	4	27,662.54	-	-	-	-	27,662.54	110,650.16
6.18.25	DN 1600 DI Blank flange.	NO	8	28,194.49	-	-	-	-	28,194.49	225,555.92
6.18.26	DN 1200 DI Blank Flange.	NO	2	7,916.09	-	-	-	-	7,916.09	15,832.18
	Subtotal for 6.18									4,425,439.47

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.19	**Incoming Flow Meter chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6502**									
6.19.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.19.2	DN1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.19.3	DN1600 DI Flanged/Spigot pipe 2115 mm long with IPF 1035 from flange.	NO	8	91,210.39	-	-	-	-	91,210.39	729,683.12
6.19.4	DN1600 mm Flow Meter	NO	2	-	234,547.95	-	-	-	234,547.95	469,095.90
6.19.5	DN1600mm dismantling joint	NO	2	28,167.38	-	-	-	-	28,167.38	56,334.76
6.19.6	DN 1600 mm DI flanged Adaptor	NO	4	27,662.54	-	-	-	-	27,662.54	110,650.16
6.19.7	DN 1600 mm DI Blank Flange	NO	8	28,194.49	-	-	-	-	28,194.49	225,555.92
6.19.8	DN1200 DI Socket Collar	NO	4	24,212.33	-	-	-	-	24,212.33	96,849.32
6.19.9	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	N0	2	26,941.42	-	-	-	-	26,941.42	53,882.84
6.19.10	DN1200 DI Flanged/Spigot pipe 2385 mm long with integral puddle flange 1309 from flange.	NO	2	55,834.76	-	-	-	-	55,834.76	111,669.52
6.19.11	DN1200mm Flow Meter	NO	1	-	85,283.02	-	-	-	85,283.02	85,283.02
6.19.12	DN1200mm dismantling joint	NO	1	14,810.65	-	-	-	-	14,810.65	14,810.65
	Subtotal for 6.19									2,643,423.57

CONSULTED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.20	**Incoming Flow Control Valve chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6503**									
6.20.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.20.2	DN1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.20.3	DN1600 DI Flanged/Spigot pipe 1814 mm long with IPF 884 from flange.	NO	8	86,035.40	-	-	-	-	86,035.40	688,283.20
6.20.4	DN1600 mm Flow Control Valve	NO	2	-	1,860,173.55	-	-	-	1,860,173.55	3,720,347.10
6.20.5	DN1600mm dismantling joint	NO	2	28,167.38	-	-	-	-	28,167.38	56,334.76
6.20.6	DN 1600 mm DI flanged Adaptor	NO	4	27,662.54	-	-	-	-	27,662.54	110,650.16
6.20.7	DN 1600 mm DI Blank Flange	NO	8	28,194.49	-	-	-	-	28,194.49	225,555.92
6.20.8	DN1200 DI Socket Collar	NO	4	24,212.33	-	-	-	-	24,212.33	96,849.32
6.20.9	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	N0	2	26,941.42	-	-	-	-	26,941.42	53,882.84
6.20.10	DN1200 DI Flanged/Spigot pipe 2671 mm long with integral puddle flange 1741 from flange.	NO	1	55,834.76	-	-	-	-	55,834.76	55,834.76
6.20.11	DN1200 DI Flanged/Spigot pipe 1800 mm long with integral puddle flange 870 from flange.	NO	1	29,881.34	-	-	-	-	29,881.34	29,881.34
6.20.12	DN1200mm Flow Control Valve	NO	1	-	748,407.19	-	-	-	748,407.19	748,407.19
6.20.13	DN1200mm dismantling joint	NO	1	14,810.65	-	-	-	-	14,810.65	14,810.65
6.20.14	Motorized Actuator Pillar with extension spindle.	NO	3	-	-	-	-	-	-	Included
	Subtotal for 6.20									6,490,445.60

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.21	**Valve chamber for single DN 2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6504**									
6.21.1	DN 2200 Steel Flexible Coupling	NO	6	27,961.75	-	-	-	-	27,961.75	167,770.50
6.21.2	DN 2200 Steel spigot pipe 2200 long	NO	3	79,890.72	-	-	-	-	79,890.72	239,672.16
6.21.3	DN 2200 Steel Flanged/Spigot pipe 2225 mm long with IPF 1204 from flange.	NO	2	119,836.08	-	-	-	-	119,836.08	239,672.16
6.21.4	DN 2200 Steel Flanged/Spigot pipe 1985 mm long with IPF 1055 from flange.	NO	2	159,781.44	-	-	-	-	159,781.44	319,562.88
6.21.5	DN 2200mm BV with extension spindle	NO	3	-	657,701.34	-	-	-	657,701.34	1,973,104.02
6.21.6	DN 2200mm dismantling joint	NO	3	75,228.06	-	-	-	-	75,228.06	225,684.18
6.21.7	DN 2200 Steel all flanged Equal Tee	NO	1	519,289.68	-	-	-	-	519,289.68	519,289.68
6.21.8	Motorized Actuator Pillar with extension spindle.	NO	3	-	-	-	-	-	-	Included
	Subtotal for 6.21									3,684,755.58

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.22	**Valve chamber for single DN 2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6505**									
6.22.1	DN 2200 Steel Flexible Coupling	NO	6	27,961.75	-	-	-	-	27,961.75	167,770.50
6.22.2	DN 2200 Steel spigot pipe 2200 long	NO	3	79,890.72	-	-	-	-	79,890.72	239,672.16
6.22.3	DN 2200 Steel Flanged/Spigot pipe 2523 mm long with IPF 1730 from flange.	NO	1	119,836.08	-	-	-	-	119,836.08	119,836.08
6.22.4	DN 2200 Steel Flanged/Spigot pipe 2076 mm long with IPF 785 from flange.	NO	1	119,836.08	-	-	-	-	119,836.08	119,836.08
6.22.5	DN 2200 Steel Flanged/Spigot pipe 2225 mm long with IPF 1204 from flange.	NO	1	119,836.08	-	-	-	-	119,836.08	119,836.08
6.22.6	DN 2200mm BV with extension spindle	NO	2	-	657,701.34	-	-	-	657,701.34	1,315,402.68
6.22.7	DN 2200mm dismantling joint	NO	2	75,228.06	-	-	-	-	75,228.06	150,456.12
6.22.8	DN 2200 Steel all flanged Equal Tee	NO	1	519,289.68	-	-	-	-	519,289.68	519,289.68
6.22.9	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.22									2,752,099.38

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.23	**Valve chamber for twin DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6506 (2 nr Chambers)**									
6.23.1	DN1200 DI Socket Collar	NO	16	24,212.33	-	-	-	-	24,212.33	387,397.28
6.23.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	8	26,941.42	-	-	-	-	26,941.42	215,531.36
6.23.3	DN1200 DI Flanged/Spigot pipe 1800 mm long with integral puddle flange 875 from flange.	NO	6	29,881.34	-	-	-	-	29,881.34	179,288.04
6.23.4	DN1200 DI Flanged/Spigot pipe 2801 mm long with integral puddle flange 1875 from flange.	NO	2	56,148.02	-	-	-	-	56,148.02	112,296.04
6.23.5	DN1200mm BV with extension spindle	NO	2	-	138,798.59	-	-	-	138,798.59	277,597.18
6.23.6	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.23.7	DN 1200 mm DI double flanged pipe 1795 mm long with 1 nr boss	NO	2	29,315.03	-	-	-	-	29,315.03	58,630.06
6.23.8	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.23									1,260,361.26

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.24	**Flow Meter chamber for twin DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6507 (2 nr Chambers)**									
6.24.1	DN 1200 DI Socket Collar	NO	8	24,212.33	-	-	-	-	24,212.33	193,698.64
6.24.2	DN1200 DI Flanged/Spigot pipe 1835 mm long with integral puddle flange	N0	6	31,694.72	-	-	-	-	31,694.72	190,168.32
6.24.3	DN1200 DI Flanged/Spigot pipe 3363 mm long with integral puddle flange	NO	2	62,485.77	-	-	-	-	62,485.77	124,971.54
6.24.4	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.24.5	DN1200mm Flow Meter	NO	2	-	85,283.02	-	-	-	85,283.02	170,566.04
	Subtotal for 6.24									709,025.84

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.25	**Flow Control Valve chamber for twin pipe DN1200. Reference drawing No. MQ174-R1-DH-CI-6508 (2 nr Chambers)**									
6.25.1	DN1200 DI Socket Collar	NO	16	24,212.33	-	-	-	-	24,212.33	387,397.28
6.25.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	8	26,941.42	-	-	-	-	26,941.42	215,531.36
6.25.3	DN1200 DI Flanged/Spigot pipe 1811 mm long with integral puddle flange 885 from flange.	NO	4	31,694.72	-	-	-	-	31,694.72	126,778.88
6.25.4	DN1200 DI Flanged/Spigot pipe 2874 mm long with integral puddle flange 1590 from flange.	NO	4	56,750.44	-	-	-	-	56,750.44	227,001.76
6.25.5	DN1200mm Flow Control Valve	NO	2	-	748,407.19	-	-	-	748,407.19	1,496,814.38
6.25.6	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.25.7	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.25									2,483,144.96

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.26	**Valve chamber for twin DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6509 (2 nr Chambers)**									
6.26.1	DN1200 DI Socket Collar	NO	16	24,212.33	-	-	-	-	24,212.33	387,397.28
6.26.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	8	26,941.42	-	-	-	-	26,941.42	215,531.36
6.26.3	DN1200 DI Flanged/Spigot pipe 1800 mm long with integral puddle flange 875 from flange.	NO	6	29,881.34	-	-	-	-	29,881.34	179,288.04
6.26.4	DN1200 DI Flanged/Spigot pipe 2801 mm long with integral puddle flange 1875 from flange.	NO	2	56,148.02	-	-	-	-	56,148.02	112,296.04
6.26.5	DN1200mm BV with extension spindle	NO	2	-	138,798.19	-	-	-	138,798.19	277,596.38
6.26.6	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.26.7	DN 1200 mm DI double flanged spool pipe 1800 mm long with 1 nr boss	NO	2	29,013.82	-	-	-	-	29,013.82	58,027.64
6.26.8	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.26									1,259,758.04

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.27	**Flow Meter chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6510 (2 nr Chambers)**									
6.27.1	DN1200 DI Socket Collar	NO	4	24,212.33	-	-	-	-	24,212.33	96,849.32
6.27.2	DN1200 DI Flanged/Spigot pipe 1811 mm long with integral puddle flange 885 from flange.	NO	4	26,941.42	-	-	-	-	26,941.42	107,765.68
6.27.3	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.27.4	DN1200mm Flow Meter	NO	2	-	85,283.02	-	-	-	85,283.02	170,566.04
	Subtotal for 6.27									404,802.34

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.28	**Flow Control Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6511 (2 nr Chambers)**									
6.28.1	DN1200 DI Socket Collar	NO	8	24,212.33	-	-	-	-	24,212.33	193,698.64
6.28.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	4	26,941.42	-	-	-	-	26,941.42	107,765.68
6.28.3	DN1200 DI Flanged/Spigot pipe 1811 mm long with integral puddle flange 885 from flange.	NO	4	31,694.72	-	-	-	-	31,694.72	126,778.88
6.28.4	DN1200mm Flow Control Valve	NO	2	-	748,407.19	-	-	-	748,407.19	1,496,814.38
6.28.5	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.28.6	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.28									1,954,678.88

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.29	**Valve chamber for single DN2000 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6512 (3 Nr. Chambers)**									
6.29.1	DN 2000 Steel Flexible Coupling	NO	6	25,964.48	-	-	-	-	25,964.48	155,786.88
6.29.2	DN 2000 Steel Flanged/Spigot pipe 1890 mm long with IPF	NO	6	139,808.76	-	-	-	-	139,808.76	838,852.56
6.29.3	DN 2000mm BV with extension spindle	NO	3	-	435,379.31	-	-	-	435,379.31	1,306,137.93
6.29.4	DN 2000mm dismantling joint	NO	3	61,204.34	-	-	-	-	61,204.34	183,613.02
6.29.5	Motorized Actuator Pillar with extension spindle.	NO	3	-	-	-	-	-	-	Included
	Subtotal for 6.29									2,484,390.39

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / KEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.30	**Valve chamber for single DN2000 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6514**									
6.30.1	DN 2000 Steel Flexible Coupling	NO	6	25,964.48	-	-	-	-	25,964.48	155,786.88
6.30.2	DN 2000 Steel spigot pipe 1800 long	NO	3	67,907.11	-	-	-	-	67,907.11	203,721.33
6.30.3	DN 2000 Steel Flanged/Spigot pipe 2000 mm long with IPF	NO	1	139,808.76	-	-	-	-	139,808.76	139,808.76
6.30.4	DN 2000 Steel Flanged/Spigot pipe 1913 mm long with IPF	NO	1	139,808.76	-	-	-	-	139,808.76	139,808.76
6.30.5	DN 2000 Steel Flanged/Spigot pipe 2167 mm long with IPF	NO	1	139,808.76	-	-	-	-	139,808.76	139,808.76
6.30.6	DN 2000 Steel all flanged Equal Tee	NO	1	399,453.60	-	-	-	-	399,453.60	399,453.60
6.30.7	DN 2000mm BV with extension spindle	NO	2	-	435,379.31	-	-	-	435,379.31	870,758.62
6.30.8	DN 2000mm dismantling joint	NO	2	61,204.34	-	-	-	-	61,204.34	122,408.68
6.30.9	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.30									2,171,555.39

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 6 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.31	**Valve chamber for single DN2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6515 (2 Nr. Chambers)**									
6.31.1	DN 2200 Steel Flexible Coupling	NO	8	27,961.75	-	-	-	-	27,961.75	223,694.00
6.31.2	DN 2200 Steel spigot pipe 2200 long	NO	4	67,907.11	-	-	-	-	67,907.11	271,628.44
6.31.3	DN 2200 Steel Flanged/Spigot pipe 3307 mm long with IPF	NO	2	159,781.44	-	-	-	-	159,781.44	319,562.88
6.31.4	DN 2200 Steel Flanged/Spigot pipe 1900 mm long with IPF 880 from flange	NO	2	159,781.44	-	-	-	-	159,781.44	319,562.88
6.31.5	DN 2200 x DN 1400 mm Steel all flanged unequal Tee	NO	2	279,617.52	-	-	-	-	279,617.52	559,235.04
6.31.6	DN 1400mm BV with extension spindle	NO	2	-	224,764.07	-	-	-	224,764.07	449,528.14
6.31.7	DN 1400mm dismantling joint	NO	2	20,644.33	-	-	-	-	20,644.33	41,288.66
6.31.8	DN 1400 DI Flanged/Spigot pipe 2260 mm long with Integral Puddle flange 1310 from flange.	NO	2	58,782.91	-	-	-	-	58,782.91	117,565.82
6.31.9	DN 1400 DI Socket Collar	NO	4	41,493.82	-	-	-	-	41,493.82	165,975.28
6.31.10	DN 1400 DI Rocker Pipe (Double spigot pipe 2100 long)	NO	2	38,036.00	-	-	-	-	38,036.00	76,072.00
6.31.11	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.31									2,544,113.14

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 6 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.32	**Combined outgoing Valve chamber for three pipes (2xDN1600 and 1xDN1200). Reference drawing No. MQ174-R1-DH-CI-6516**									
6.32.1	DN 1200 DI Socket Collar	NO	4	24,212.33	-	-	-	-	24,212.33	96,849.32
6.32.2	DN 1200 DI Rocker Pipe (Double spigot pipe 1800 mm long)	NO	2	26,941.42	-	-	-	-	26,941.42	53,882.84
6.32.3	DN 1200 DI Flanged/Spigot pipe 2395 mm long with Integral Puddle flange 2320 from flange.	NO	2	51,557.40	-	-	-	-	51,557.40	103,114.80
6.32.4	DN1200mm dismantling joint	NO	1	14,810.65	-	-	-	-	14,810.65	14,810.65
6.32.5	DN 1200mm BV with extension spindle	NO	1	-	138,798.59	-	-	-	138,798.59	138,798.59
6.32.6	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.32.7	DN 1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.32.8	DN 1600 DI Flanged/Spigot pipe 2170 mm long with Integral Puddle flange 1090 from flange.	NO	4	91,210.39	-	-	-	-	91,210.39	364,841.56
6.32.9	DN1600mm dismantling joint	NO	2	28,167.38	-	-	-	-	28,167.38	56,334.76
6.32.10	DN 1600mm BV with extension spindle	NO	2	-	254,805.39	-	-	-	254,805.39	509,610.78
6.32.11	Motorized Actuator Pillar with extension spindle.	NO	3	-	-	-	-	-	-	Included
	Subtotal for 6.32									2,027,851.66

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 6 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.33	**Outgoing By-Pass Valve chamber for single DN1600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6517 (2 nr Chambers)**									
6.33.1	DN 1600 DI Socket Collar	NO	12	46,328.14	-	-	-	-	46,328.14	555,937.68
6.33.2	DN 1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	6	79,745.81	-	-	-	-	79,745.81	478,474.86
6.33.3	DN 1600 DI Flanged/Spigot pipe 2593 mm long with Integral Puddle flange	NO	2	52,247.25	-	-	-	-	52,247.25	104,494.50
6.33.4	DN 1600 DI Flanged/Spigot pipe 1800 mm long with Integral Puddle flange	NO	2	86,035.40	-	-	-	-	86,035.40	172,070.80
6.33.5	DN 1600 DI Flanged/Spigot pipe 2513 mm long with Integral Puddle flange 1582 from flange.	NO	2	93,608.13	-	-	-	-	93,608.13	187,216.26
6.33.6	DN 1600 mm DI all flanged equal Tee	NO	2	106,440.26	-	-	-	-	106,440.26	212,880.52
6.33.7	DN 1600 mm DI flanged 90° Elbow.	NO	2	114,964.89	-	-	-	-	114,964.89	229,929.78
6.33.8	DN1600mm dismantling joint	NO	2	28,167.38	-	-	-	-	28,167.38	56,334.76
6.33.9	DN1600 DI double Flanged pipe 1600 mm long with 1 nr Boss.	NO	2	82,932.78	-	-	-	-	82,932.78	165,865.56
6.33.10	DN1600 DI double Flanged pipe 477 mm long.	NO	2	68,215.02	-	-	-	-	68,215.02	136,430.04
	Subtotal for 6.33									2,299,634.76

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.34	**Outgoing By-Pass Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6518**									
6.34.1	DN1200 DI Socket Collar	NO	6	24,212.33	-	-	-	-	24,212.33	145,273.98
6.34.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	3	26,941.42	-	-	-	-	26,941.42	80,824.26
6.34.3	DN1200 DI Flanged/Spigot pipe 1819 mm long with puddle flange	NO	1	31,694.72	-	-	-	-	31,694.72	31,694.72
6.34.4	DN1200 DI Flanged/Spigot pipe 2297 mm long with puddle flange	NO	1	55,097.11	-	-	-	-	55,097.11	55,097.11
6.34.5	DN1200 DI Flanged/Spigot pipe 2095 mm long with puddle flange	NO	1	34,664.78	-	-	-	-	34,664.78	34,664.78
6.34.6	DN1200mm dismantling joint	NO	1	14,810.65	-	-	-	-	14,810.65	14,810.65
6.34.7	DN 1200 mm DI all flanged equal Tee	NO	1	31,604.34	-	-	-	-	31,604.34	31,604.34
6.34.8	DN 1200 mm DI flanged 90^0 bend.	NO	1	55,105.74	-	-	-	-	55,105.74	55,105.74
6.34.9	DN1200 DI double Flanged pipe 1200 mm long with 1nr Boss.	NO	1	28,194.49	-	-	-	-	28,194.49	28,194.49
6.34.10	DN1200 DI double Flanged pipe 700 mm long.	NO	1	21,182.00	-	-	-	-	21,182.00	21,182.00
	Subtotal for 6.34									498,452.07

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.35	**Flow Control Valve chamber for single DN1600 mm pipe with By-Pass arrangement. Reference drawing No. MQ174-R1-DH-CI-6519 (2nr Chambers)**									
6.35.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.35.2	DN 1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.35.3	DN 1600 DI Flanged/Spigot pipe 1800 mm long with Integral Puddle flange 870 from flange.	NO	4	86,035.40	-	-	-	-	86,035.40	344,141.60
6.35.4	DN 1600x1000 mm DI all flanged unequal Tee	NO	4	97,054.12	-	-	-	-	97,054.12	388,216.48
6.35.5	DN1600mm dismantling joint	NO	4	28,167.38	-	-	-	-	28,167.38	112,669.52
6.35.6	DN 1600mm BV with extension spindle	NO	2	-	254,805.39	-	-	-	254,805.39	509,610.78
6.35.7	DN1600 DI double Flanged pipe 1600 mm long.	NO	2	82,932.78	-	-	-	-	82,932.78	165,865.56
6.35.8	DN 1600 mm Flow Control Valve.	NO	2	-	1,860,173.55	-	-	-	1,860,173.55	3,720,347.10
6.35.9	DN 1000x900 mm DI Flanged Concentric Reducer	NO	4	12,476.68	-	-	-	-	12,476.68	49,906.72
6.35.10	DN900 DI double Flanged pipe 900 mm long.	NO	4	15,856.39	-	-	-	-	15,856.39	63,425.56
6.35.11	DN900 DI double Flanged pipe 5060 mm long.	NO	2	36,219.09	-	-	-	-	36,219.09	72,438.18

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.35.12	DN 900 mm DI flanged 90° Elbow.	NO	4	24,224.38	-	-	-	-	24,224.38	96,897.52
6.35.13	DN900mm dismantling joint	NO	2	7,155.33	-	-	-	-	7,155.33	14,310.66
6.35.14	DN 900mm BV with extension spindle	NO	2	-	73,864.15	-	-	-	73,864.15	147,728.30
6.35.15	Motorized Actuator Pillar with extension spindle.	NO	6	-	-	-	-	-	-	Included
	Subtotal for 6.35									6,375,166.34

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.36	**Flow Control Valve chamber for single DN1200 mm pipe with By-Pass arrangement. Reference drawing No. MQ174-R1-DH-CI-6520**									
6.36.1	DN1200 DI Socket Collar	NO	4	24,212.33	-	-	-	-	24,212.33	96,849.32
6.36.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	2	26,941.42	-	-	-	-	26,941.42	53,882.84
6.36.3	DN1200 DI Flanged/Spigot pipe 1818 mm long with puddle flange 888 from flange	NO	2	31,694.72	-	-	-	-	31,694.72	63,389.44
6.36.4	DN 1200x700 mm DI all flanged unequal Tee	NO	2	32,050.16	-	-	-	-	32,050.16	64,100.32
6.36.5	DN 1200 mm DI double flanged 1200 mm long.	NO	1	28,327.03	-	-	-	-	28,327.03	28,327.03
6.36.6	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.36.7	DN 1200mm BV with extension spindle	NO	1	-	138,798.59	-	-	-	138,798.59	138,798.59
6.36.8	DN 1200 mm Flow Control Valve.	NO	1	-	748,407.19	-	-	-	748,407.19	748,407.19
6.36.9	DN 700x600 mm DI Flanged Concentric Reducer	NO	2	8,494.49	-	-	-	-	8,494.49	16,988.98
6.36.10	DN600 DI double Flanged pipe 900 mm long.	NO	2	11,065.02	-	-	-	-	11,065.02	22,130.04
6.36.11	DN600 DI double Flanged pipe 3813 mm long.	NO	1	21,784.27	-	-	-	-	21,784.27	21,784.27
6.36.12	DN 600 mm DI flanged 90° Elbow.	NO	2	8,205.32	-	-	-	-	8,205.32	16,410.64

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.36.13	DN600mm dismantling joint	NO	1	3,810.28	-	-	-	-	3,810.28	3,810.28
6.36.14	DN 600mm BV with extension spindle	NO	1	-	45,865.86	-	-	-	45,865.86	45,865.86
6.36.15	Motorized Actuator Pillar with extension spindle.	NO	3	-	-	-	-	-	-	Included
	Subtotal for 6.36									1,350,366.10

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 6 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.37	**Combined Flow Meter Valve chamber for twin DN1600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6521**									
6.37.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.37.2	DN 1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.37.3	DN 1600 DI Flanged/Spigot pipe 2115 mm long with Integral Puddle flange 1035 from flange.	NO	4	91,210.39	-	-	-	-	91,210.39	364,841.56
6.37.4	DN1600 mm Flow Meter	NO	2	-	234,547.95	-	-	-	234,547.95	469,095.90
6.37.5	DN1600mm dismantling joint	NO	2	28,167.38	-	-	-	-	28,167.38	56,334.76
	Subtotal for 6.37									1,579,880.58

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.38	**Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6522**									
6.38.1	DN1200 DI Socket Collar	NO	6	24,212.33	-	-	-	-	24,212.33	145,273.98
6.38.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	3	26,941.42	-	-	-	-	26,941.42	80,824.26
6.38.3	DN1200 DI Flanged/Spigot pipe 2128 mm long with puddle flange 1202 from flange	NO	1	34,664.78	-	-	-	-	34,664.78	34,664.78
6.38.4	DN1200 DI Flanged/Spigot pipe 1847 mm long with puddle flange 921 from flange	NO	1	31,694.72	-	-	-	-	31,694.72	31,694.72
6.38.5	DN1200 DI Flanged/Spigot pipe 2451 mm long with puddle flange 1525 from flange	NO	1	55,834.76	-	-	-	-	55,834.76	55,834.76
6.38.6	DN 1200 mm DI all flanged equal Tee	NO	1	31,604.34	-	-	-	-	31,604.34	31,604.34
6.38.7	DN1200mm dismantling joint	NO	2	14,810.65	-	-	-	-	14,810.65	29,621.30
6.38.8	DN 1200mm BV with extension spindle	NO	2	-	138,798.59	-	-	-	138,798.59	277,597.18
6.38.9	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.38									687,115.32

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.39	**Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6523**									
6.39.1	DN1200 DI Socket Collar	NO	6	24,212.33	-	-	-	-	24,212.33	145,273.98
6.39.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	3	26,941.42	-	-	-	-	26,941.42	80,824.26
6.39.3	DN1200 DI Flanged/Spigot pipe 2751 mm long with puddle flange 1821 from flange	NO	1	55,834.76	-	-	-	-	55,834.76	55,834.76
6.39.4	DN1200 DI Flanged/Spigot pipe 2351 mm long with puddle flange 1421 from flange	NO	1	55,834.76	-	-	-	-	55,834.76	55,834.76
6.39.5	DN1200 DI Flanged/Spigot pipe 1858 mm long with puddle flange 928 from flange	NO	1	31,694.72	-	-	-	-	31,694.72	31,694.72
6.39.6	DN 1200 mm DI all flanged equal Tee	NO	1	31,604.34	-	-	-	-	31,604.34	31,604.34
6.39.7	DN1200mm dismantling joint	NO	3	14,810.65	-	-	-	-	14,810.65	44,431.95
6.39.8	DN 1200mm BV with extension spindle	NO	3	-	138,798.59	-	-	-	138,798.59	416,395.77
6.39.9	Motorized Actuator Pillar with extension spindle.	NO	3	-	-	-	-	-	-	Included
	Subtotal for 6.39									861,894.54

GTC
CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.40	**Valve chamber for twin DN1400 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6524**									
6.40.1	DN1400 DI Socket Collar	NO	8	41,493.82	-	-	-	-	41,493.82	331,950.56
6.40.2	DN1400 DI Rocker Pipe (Double spigot pipe 2100 long)	NO	4	34,578.18	-	-	-	-	34,578.18	138,312.72
6.40.3	DN1400 DI Flanged/Spigot pipe 3454 mm long with integral puddle flange 2525 from flange.	NO	1	69,156.36	-	-	-	-	69,156.36	69,156.36
6.40.4	DN1400 DI Flanged/Spigot pipe 1850 mm long with integral puddle flange 922 from flange.	NO	3	48,409.45	-	-	-	-	48,409.45	145,228.35
6.40.5	DN 1400 mm DI double flanged 1600 mm long.	NO	1	44,951.63	-	-	-	-	44,951.63	44,951.63
6.40.6	DN 1400x600 mm DI all flanged unequal Tee	NO	2	41,493.82	-	-	-	-	41,493.82	82,987.64
6.40.7	DN 600 mm DI flanged 90° Elbow.	NO	1	8,205.32	-	-	-	-	8,205.32	8,205.32
6.40.8	DN 600 mm dismantling joint	NO	2	3,810.28	-	-	-	-	3,810.28	7,620.56
6.40.9	DN 600 mm BV with extension spindle	NO	2	-	46,592.15	-	-	-	46,592.15	93,184.30
6.40.10	DN 600 mm DI Flanged/Spigot pipe 2061 mm long with puddle flange 1145 from flange.	NO	1	20,422.95	-	-	-	-	20,422.95	20,422.95

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.40.11	DN 600 mm DI Flanged/Spigot pipe 1800 mm long with puddle flange 884 from flange.	NO	1	18,838.53	-	-	-	-	18,838.53	18,838.53
6.40.12	DN 600 DI Double flanged pipe 3515 mm long.	NO	1	22,254.41	-	-	-	-	22,254.41	22,254.41
6.40.13	DN 600 DI Double spigot pipe 900 mm long.	NO	2	4,789.44	-	-	-	-	4,789.44	9,578.88
6.40.14	DN 600 mm DI Socket Collar	NO	4	5,331.65	-	-	-	-	5,331.65	21,326.60
6.40.15	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.40									1,014,018.81

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.41	**Valve chamber for single DN800 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6525**									
6.41.1	DN 800 mm DI Socket Collar	NO	4	10,795.80	-	-	-	-	10,795.80	43,183.20
6.41.2	DN 800 DI Double spigot pipe 1200 mm long.	NO	2	11,066.91	-	-	-	-	11,066.91	22,133.82
6.41.3	DN 800 mm DI Flanged/Spigot pipe 1813 mm long with puddle flange 894 from flange.	NO	2	16,458.84	-	-	-	-	16,458.84	32,917.68
6.41.4	DN 800 mm DI all flanged equal Tee	NO	1	15,537.09	-	-	-	-	15,537.09	15,537.09
6.41.5	DN 800 mm dismantling joint	NO	1	5,745.12	-	-	-	-	5,745.12	5,745.12
6.41.6	DN 800 mm BV with extension spindle	NO	1	-	64,050.79	-	-	-	64,050.79	64,050.79
6.41.7	DN 800x450 mm DI flanged eccentric Reducer	NO	1	8,006.51	-	-	-	-	8,006.51	8,006.51
6.41.8	DN 250 mm DI Socket Collar	NO	2	1,433.80	-	-	-	-	1,433.80	2,867.60
6.41.9	DN 250 DI Double spigot pipe 800 mm long.	NO	1	1,222.97	-	-	-	-	1,222.97	1,222.97
6.41.10	DN 250 mm DI Flanged/Spigot pipe 1970 mm long with puddle flange 1060 from flange.	NO	1	3,958.06	-	-	-	-	3,958.06	3,958.06

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.41.11	DN 450x250 mm DI flanged eccentric Reducer	NO	1	3,337.55	-	-	-	-	3,337.55	3,337.55
6.41.12	DN 250 mm dismantling joint	NO	1	1,042.50	-	-	-	-	1,042.50	1,042.50
6.41.13	DN 250 mm BV with extension spindle	NO	1	-	28,036.41	-	-	-	28,036.41	28,036.41
6.41.14	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.41									232,039.30

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.42	**Flow Meter chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6526 (3 nr Chambers)**									
6.42.1	DN1200 DI Socket Collar	NO	12	24,212.33	-	-	-	-	24,212.33	290,547.96
6.42.2	DN1200 DI Rocker Pipe (Double spigot pipe 1800 long)	NO	6	26,941.42	-	-	-	-	26,941.42	161,648.52
6.42.3	DN1200 DI Flanged/Spigot pipe 1811 mm long with integral puddle flange 885 from flange.	NO	6	31,694.72	-	-	-	-	31,694.72	190,168.32
6.42.4	DN1200mm dismantling joint	NO	3	14,810.65	-	-	-	-	14,810.65	44,431.95
6.42.5	DN1200mm Flow Meter	NO	3	-	85,283.02	-	-	-	85,283.02	255,849.06
	Subtotal for 6.42									942,645.81

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.43	**Valve chamber for single DN 600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6527**									
6.43.1	DN 600 DI Socket Collar	NO	4	5,331.65	-	-	-	-	5,331.65	21,326.60
6.43.2	DN 600 DI Double spigot pipe 900 mm long.	NO	2	4,789.44	-	-	-	-	4,789.44	9,578.88
6.43.3	DN 600 DI Flanged/Spigot pipe 1500 mm long with puddle flange	NO	2	7,145.03	-	-	-	-	7,145.03	14,290.06
6.43.4	DN 600 x 150 mm DI all flanged level invert Tee	NO	2	9,994.60	-	-	-	-	9,994.60	19,989.20
6.43.5	DN 150 mm dismantling joint	NO	2	578.43	-	-	-	-	578.43	1,156.86
6.43.6	DN 150 mm BV with extension spindle	NO	2	-	24,302.17	-	-	-	24,302.17	48,604.34
6.43.7	DN 150 mm DI Flanged/Spigot pipe 746 mm long with puddle flange	NO	2	897.66	-	-	-	-	897.66	1,795.32
6.43.8	DN 150 DI Double spigot pipe 500 mm long.	NO	2	451.83	-	-	-	-	451.83	903.66
6.43.9	DN 150 mm DI Socket Collar	NO	4	855.47	-	-	-	-	855.47	3,421.88
6.43.10	Motorized Actuator Pillar with extension spindle.	NO	2	-	-	-	-	-	-	Included
	Subtotal for 6.43									121,066.80

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.44	**Outgoing Combined Sampling chamber for twin DN1600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6528**									
6.44.1	DN 1600 DI Socket Collar	NO	8	46,328.14	-	-	-	-	46,328.14	370,625.12
6.44.2	DN 1600 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	4	79,745.81	-	-	-	-	79,745.81	318,983.24
6.44.3	DN 1600 DI Flanged/Spigot pipe 1805 mm long with Integral Puddle flange 905 from flange.	NO	4	86,035.40	-	-	-	-	86,035.40	344,141.60
6.44.4	DN 1600 DI double Flanged pipe 1634 mm long with 1 Nr Boss	NO	2	82,932.78	-	-	-	-	82,932.78	165,865.56
6.44.5	DN 80 DI double Flanged pipe 5670 mm long	NO	1	2,192.92	-	-	-	-	2,192.92	2,192.92
6.44.6	DN 80 DI double Flanged pipe 3370 mm long	NO	1	1,668.79	-	-	-	-	1,668.79	1,668.79
6.44.7	DN 80 DI Flanged/Spigot pipe 1520 mm long with Integral Puddle flange	NO	1	1,424.91	-	-	-	-	1,424.91	1,424.91
6.44.8	DN 80 DI Flanged Sluice Valve	NO	2	-	980.32	-	-	-	980.32	1,960.64
6.44.9	DN 80 DI Flanged equal Tee	NO	1	307.25	-	-	-	-	307.25	307.25
6.44.10	DN 80 mm DI flanged 90° Elbow.	NO	3	216.87	-	-	-	-	216.87	650.61
6.44.11	DN 80 DI double spigot pipe 600 mm long	NO	1	812.59	-	-	-	-	812.59	812.59
6.44.12	DN 80 DI Socket Collar	NO	2	383.84	-	-	-	-	383.84	767.68
	Subtotal for 6.44									1,209,400.91

GUNSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.45	**Outgoing Combined Sampling chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6529**									
6.45.1	DN 1200 DI Socket Collar	NO	4	24,212.33	-	-	-	-	24,212.33	96,849.32
6.45.2	DN 1200 DI Rocker Pipe (Double spigot pipe 2400 long)	NO	2	26,941.42	-	-	-	-	26,941.42	53,882.84
6.45.3	DN 1200 DI Flanged/Spigot pipe 1819 mm long with Integral Puddle flange 918 from flange.	NO	2	31,694.72	-	-	-	-	31,694.72	63,389.44
6.45.4	DN 1200 DI double Flanged pipe 1506 mm long with 1 Nr Boss	NO	1	32,849.29	-	-	-	-	32,849.29	32,849.29
6.45.5	DN 80 DI Flanged/Spigot pipe 1530 mm long with Integral Puddle flange	NO	1	1,452.29	-	-	-	-	1,452.29	1,452.29
6.45.6	DN 80 DI Flanged Sluice Valve	NO	1	-	980.32	-	-	-	980.32	980.32
6.45.7	DN 80 mm DI flanged 90° Elbow.	NO	2	216.87	-	-	-	-	216.87	433.74
6.45.8	DN 80 DI double Flanged pipe 1064 mm long	NO	1	1,919.08	-	-	-	-	1,919.08	1,919.08
6.45.9	DN 80 DI double Flanged pipe 3525 mm long	NO	1	2,869.99	-	-	-	-	2,869.99	2,869.99
6.45.10	DN 80 DI double spigot pipe 600 mm long	NO	1	812.59	-	-	-	-	812.59	812.59
6.45.11	DN 80 DI Socket Collar	NO	2	383.84	-	-	-	-	383.84	767.68
	Subtotal for 6.45									256,206.58

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.46	**Emergency Tanker Filling Station - Double Arm Filling Point. Reference drawing No. MQ174-R1-DH-CI-6394 (5 nr Points)**									
6.46.1	DN 150/100 DI all flanged Cross Tee	NO	5	879.57	-	-	-	-	879.57	4,397.85
6.46.2	DN 150 mm DI Blank Flange	NO	5	114.44	-	-	-	-	114.44	572.20
6.46.3	DN 100 mm DI Flanged 90° long radius bend	NO	40	1,578.41	-	-	-	-	1,578.41	63,136.40
6.46.4	DN 100 mm DI Flanged Ball Valve	NO	10	-	1,263.81	-	-	-	1,263.81	12,638.10
6.46.5	DN 100 mm DI Double Flanged pipe 255 mm long.	NO	10	590.37	-	-	-	-	590.37	5,903.70
6.46.6	DN 100 mm Flanged Electromagnetic Flow meter.	NO	10	-	12,455.35	-	-	-	12,455.35	124,553.50
6.46.7	DN 100 mm DI Flanged Adaptor	NO	10	985.49	-	-	-	-	985.49	9,854.90
6.46.8	DN 100 mm DI Flange spigot pipe 240 mm long.	NO	10	246.97	-	-	-	-	246.97	2,469.70
6.46.9	DN 100 mm Flanged Solenoid Valve.	NO	10	2,040.22	-	-	-	-	2,040.22	20,402.20
6.46.10	DN 100 mm DI Double Flanged pipe 2450 mm long.	NO	20	1,355.50	-	-	-	-	1,355.50	27,110.00

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.46.11	DN 100/80 mm DI Flanged Concentric Taper.	NO	10	807.24	-	-	-	-	807.24	8,072.40
6.46.12	DN 80 mm DI Flange spigot pipe 300 mm long.	NO	10	524.12	-	-	-	-	524.12	5,241.20
6.46.13	DN 80 mm Flanged Ball Valve	NO	10	-	698.26	-	-	-	698.26	6,982.60
6.46.14	DN 80 mm Clamp	NO	10	242.06	-	-	-	-	242.06	2,420.60
6.46.15	DN 80 mm Flexible Hose.	NO	10	345.80	-	-	-	-	345.80	3,458.00
	Subtotal for 6.46									297,213.35

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.47	**Valve chamber for single DN2000 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6513 (2 nr Chambers)**									
6.47.1	DN 2000 Steel Flexible Coupling	NO	8	25,964.48	-	-	-	-	25,964.48	207,715.84
6.47.2	DN 2000 Steel spigot pipe 1800 long	NO	4	67,907.11	-	-	-	-	67,907.11	271,628.44
6.47.3	DN 2000 Steel Flanged/Spigot pipe 1825 mm long with IPF 892 from flange	NO	2	139,808.76	-	-	-	-	139,808.76	279,617.52
6.47.4	DN 2000 Steel Flanged/Spigot pipe 1913 mm long with IPF 980 from flange	NO	2	139,808.76	-	-	-	-	139,808.76	279,617.52
6.47.5	DN 2000 Steel all flanged Equal Tee	NO	2	399,453.60	-	-	-	-	399,453.60	798,907.20
6.47.6	DN 2000mm BV with extension spindle	NO	2	-	435,379.31	-	-	-	435,379.31	870,758.62
6.47.7	DN 2000mm dismantling joint	NO	2	61,204.34	-	-	-	-	61,204.34	122,408.68
6.47.8	DN 2000mm Steel Blind Flange	NO	2	75,820.73	-	-	-	-	75,820.73	151,641.46
6.47.9	Motorized Actuator Pillar with extension spindle.	NO	2	3,919.08	-	-	-	-	3,919.08	7,838.16
	Subtotal for 6.47									2,990,133.44

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.48	**Surge Vessel Pipe works. Reference drawing No. MQ174-R1-DH-CI-6340 - 6341**									
6.48.1	DN 900 mm BV with extension spindle	NO	11	-	73,864.15	-	-	-	73,864.15	812,505.65
6.48.2	DN 900 mm DI dismantling joint	NO	11	7,155.33	-	-	-	-	7,155.33	78,708.63
6.48.3	DN 900 mm DI Flanged 90° Elbow	NO	26	19,363.78	-	-	-	-	19,363.78	503,458.28
6.48.4	DN 1600 x 900 mm DI flanged unequal tee	NO	10	94,800.96	-	-	-	-	94,800.96	948,009.60
6.48.5	DN 1200 x 900 mm DI flanged unequal tee	NO	5	29,284.93	-	-	-	-	29,284.93	146,424.65
6.48.6	DN 900 mm DI flanged equal tee	NO	11	18,999.02	-	-	-	-	18,999.02	208,989.22
6.48.7	DN 900 mm DI Blank Flange	NO	4	5,878.27	-	-	-	-	5,878.27	23,513.08
6.48.8	DN 900 mm DI double flange pipes (length varies)	NO	37	20,675.93	-	-	-	-	20,675.93	765,009.41
6.48.9	DN 900 mm DI double flange pipes with IPF (length varies)	NO	11	20,746.91	-	-	-	-	20,746.91	228,216.01
6.48.10	Motorised actuated Headstocks	NO	11	-	-	-	-	-	-	Included
	Subtotal for 6.48									3,714,834.53

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.49	**Air Valve chamber for single DN1400 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6530**									
6.49.1	DN1400 DI Socket Collar	NO	4	41,493.82	-	-	-	-	41,493.82	165,975.28
6.49.2	DN1400 DI Rocker Pipe (Double spigot pipe 2100 mm long)	NO	2	34,578.18	-	-	-	-	34,578.18	69,156.36
6.49.3	DN1400 DI Flanged/Spigot pipe 1800 mm long with integral puddle flange.	NO	2	48,409.45	-	-	-	-	48,409.45	96,818.90
6.49.4	DN1400 x 600 mm DI flanged unequal tee.	NO	1	41,493.82	-	-	-	-	41,493.82	41,493.82
6.49.5	DN600 x 200 mm DI reducing flange.	NO	1	14,868.64	-	-	-	-	14,868.64	14,868.64
6.49.6	DN 200 mm Gate valve with bevel gear and spindle.	NO	1	-	3,011.77	-	-	-	3,011.77	3,011.77
6.49.7	DN 200 mm Air release valve	NO	1	7,705.41	-	-	-	-	7,705.41	7,705.41
	Subtotal for 6.49									399,030.18

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
6.50	**Land and Under Floor Drainage Pump Station Pipe Work. Reference drawing No. MQ174-R1-DH-CI-6450**									
6.50.1	DN 100x50mm DI flanged eccentric Reducer	NO	3	968.20	-	-	-	-	968.20	2,904.60
6.50.2	DN 100 mm DI double flange pipes 545 mm long	NO	3	590.37	-	-	-	-	590.37	1,771.11
6.50.3	DN 100 mm DI dismantling joint	NO	3	578.43	-	-	-	-	578.43	1,735.29
6.50.4	DN 100, PN16 Non Return Valve	NO	3	-	921.10	-	-	-	921.10	2,763.30
6.50.5	DN 100 mm DI double flange pipes 3000 mm long	NO	9	1,355.50	-	-	-	-	1,355.50	12,199.50
6.50.6	DN 100 mm DI double flange pipes 2240 mm long	NO	3	1,355.50	-	-	-	-	1,355.50	4,066.50
6.50.7	DN 100 mm DI double flanged 90° Elbow.	NO	3	1,578.41	-	-	-	-	1,578.41	4,735.23
6.50.8	DN 100 DI double Flanged pipe 1020 mm long with IPF	NO	3	1,355.50	-	-	-	-	1,355.50	4,066.50
6.50.9	DN 100 PN16 Flap Valve	NO	3	1,105.80	-	-	-	-	1,105.80	3,317.40
6.50.10	Stepped coupling to suit DN 500 VC to DN 500 DI pipes	NO	1	6,915.64	-	-	-	-	6,915.64	6,915.64
6.50.11	DN 500 DI double Flanged pipe 1350 mm long with IPF	NO	1	23,513.16	-	-	-	-	23,513.16	23,513.16
6.50.12	DN 500 PN16 Flap Valve	NO	1	2,736.88	-	-	-	-	2,736.88	2,736.88
	Subtotal for 6.50									70,725.11

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	COLLECTION									
	Subtotal for 6.1									20,617,496.47
	Subtotal for 6.2									6,110,744.64
	Subtotal for 6.3									1,329,401.46
	Subtotal for 6.4									359,192.61
	Subtotal for 6.5									31,940,348.64
	Subtotal for 6.6									45,131,319.69
	Subtotal for 6.7									5,736,861.48
	Subtotal for 6.8									2,232,809.70
	Subtotal for 6.9									1,277,463.84
	Subtotal for 6.10									19,582,968.16
	Subtotal for 6.11									3,568,309.76

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	Subtotal for 6.12									1,796,189.30
	Subtotal for 6.13									2,382,186.96
	Subtotal for 6.14									118,919.74
	Subtotal for 6.15									184,830.75
	Subtotal for 6.16									118,504.37
	Subtotal for 6.17									11,361,783.08
	Subtotal for 6.18									4,425,439.47
	Subtotal for 6.19									2,643,423.57
	Subtotal for 6.20									6,490,445.60
	Subtotal for 6.21									3,684,755.58
	Subtotal for 6.22									2,752,099.38
	Subtotal for 6.23									1,260,361.26
	Subtotal for 6.24									709,025.84

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	Subtotal for 6.25									2,483,144.96
	Subtotal for 6.26									1,259,758.04
	Subtotal for 6.27									404,802.34
	Subtotal for 6.28									1,954,678.88
	Subtotal for 6.29									2,484,390.39
	Subtotal for 6.30									2,171,555.39
	Subtotal for 6.31									2,544,113.14
	Subtotal for 6.32									2,027,851.66
	Subtotal for 6.33									2,299,634.76
	Subtotal for 6.34									498,452.07
	Subtotal for 6.35									6,375,166.34
	Subtotal for 6.36									1,350,366.10
	Subtotal for 6.37									1,579,880.58

GTC
CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 6 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Pipes, Fittings, Valves and Accessories						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	Subtotal for 6.38									687,115.32
	Subtotal for 6.39									861,894.54
	Subtotal for 6.40									1,014,018.81
	Subtotal for 6.41									232,039.30
	Subtotal for 6.42									942,645.81
	Subtotal for 6.43									121,066.80
	Subtotal for 6.44									1,209,400.91
	Subtotal for 6.45									256,206.58
	Subtotal for 6.46									297,213.35
	Subtotal for 6.47									2,990,133.44
	Subtotal for 6.48									3,714,834.53
	Subtotal for 6.49									399,030.18
	Subtotal for 6.50									70,725.11
	Carried Forward to General Summary									**216,045,000.68**

Bill No.7
Supply of Instrumentation & Control Equipment

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626A/2014

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	Supply of Instrumentation & Control Equipment **Supply of the following I&C Equipment including cabling and all related equipment and ancillary items required for a complete installation. Scope includes the supply of all other equipment in accordance with KAHRAMAA requirements and standards.**									
7.1	**Reservoirs**									
7.1.1	Chlorine Analyser (0 – 2 mg/l)	NO	24		26,774.88				26,774.88	642,597.12
7.1.2	Chlorine dioxide Analyser (0 – 2 mg/l)	NO	24		17,421.70				17,421.70	418,120.80
7.1.3	Level Transmitter - Radar type (0-20m)	NO	28		17,128.71				17,128.71	479,603.88
	Subtotal for 7.1									1,540,321.80

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) | TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.2	**Main Pump Station**									
7.2.1	**Main Pumps**									
7.2.1.1	Pressure Transmitter - Suction (-1 to 2 bar)	NO	13		3,515.89				3,515.89	45,706.57
7.2.1.2	Pressure Transmitter - Discharge (0 to 15 Bar)	NO	13		3,515.89				3,515.89	45,706.57
7.2.1.3	Pressure Switch - Suction (-1 to 2 bar)	NO	9		6,310.58				6,310.58	56,795.22
7.2.1.4	Pressure Gauge - Suction (-1 to 2 bar)	NO	9		6,310.58				6,310.58	56,795.22
7.2.1.5	Pressure Switch - Discharge (0 to 15 Bar)	NO	9		6,310.58				6,310.58	56,795.22
7.2.1.6	Pressure Gauge - Discharge (0 to 15 Bar)	NO	9		6,310.58				6,310.58	56,795.22
7.2.1.7	Level Switch	NO	6		8,113.60				8,113.60	48,681.60
7.2.1.8	Pressure Gauge - Discharge (0 to 2 Bar)	NO	8		5,859.82				5,859.82	46,878.56
7.2.2	**Inlet & Bypass**									
7.2.2.1	pH Analyser (0 -14)	NO	6		11,494.27				11,494.27	68,965.62
7.2.2.2	Chlorine Analyser (0 – 2 mg/l)	NO	6		26,774.88				26,774.88	160,649.28
7.2.2.3	Oxidising Reducing Potential (-1500 mv to + 1500 mv)	NO	6		11,512.29				11,512.29	69,073.74
7.2.2.4	Turbidity Analyser (0 – 5 NTU)	NO	6		16,339.89				16,339.89	98,039.34

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 7 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.2.2.5	Conductivity Analyser (50 µS/m to 500 µS/m)	NO	6		12,756.38				12,756.38	76,538.28
7.2.2.6	Temparature Transmeter	NO	6		3,831.42				3,831.42	22,988.52
7.2.2.7	Chlorine dioxide Analyser (0 – 2 mg/l)	NO	6		17,421.70				17,421.70	104,530.20
7.2.2.8	Pressure Transmitter (0 to 15 Bar)	NO	6		3,515.89				3,515.89	21,095.34
	Subtotal for 7.2									1,036,034.50

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 7 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.3	**Auxiliary Pumping Station**									
7.3.1	**Drain Down Pumps**									-
7.3.1.1	Pressure Transmitter - Suction (-1 to 2 bar)	NO	3		3,515.89				3,515.89	10,547.67
7.3.1.2	Pressure Transmitter - Discharge (0 to 2 Bar)	NO	3		3,515.89				3,515.89	10,547.67
7.3.1.3	Pressure Switch - Suction (-1 to 2 bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.1.4	Pressure Switch - Discharge (0 to 2 Bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.1.5	Pressure Gauge - Suction (-1 to 2 bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.1.6	Pressure Gauge - Discharge (0 to 2 Bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.2	**Scour Pumps**									
7.3.2.1	Pressure Transmitter - Suction (-1 to 2 bar)	NO	3		3,515.89				3,515.89	10,547.67
7.3.2.2	Pressure Transmitter - Discharge (0 to 1.5 Bar)	NO	3		3,515.89				3,515.89	10,547.67
7.3.2.3	Pressure Switch - Suction (-1 to 2 bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.2.4	Pressure Switch - Discharge (0 to 1.5 Bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.2.5	Pressure Gauge - Suction (-1 to 2 bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.2.6	Pressure Gauge - Discharge (0 to 1.5 Bar)	NO	2		6,310.58				6,310.58	12,621.16
7.3.2.7	Level Transmitter - Ultrasonic type	NO	2		4,980.85				4,980.85	9,961.70

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.3.3	**Recirculation Pumps**									
7.3.3.1	Pressure Transmitter - Suction (-1 to 2 bar)	NO	6		3,515.89				3,515.89	21,095.34
7.3.3.2	Pressure Transmitter - Discharge (0 to 2 Bar)	NO	6		3,515.89				3,515.89	21,095.34
7.3.3.3	Pressure Switch - Suction (-1 to 2 bar)	NO	4		6,310.58				6,310.58	25,242.32
7.3.3.4	Pressure Switch - Discharge (0 to 2 Bar)	NO	4		6,310.58				6,310.58	25,242.32
7.3.3.5	Pressure Gauge - Suction (-1 to 2 bar)	NO	4		6,310.58				6,310.58	25,242.32
7.3.3.6	Pressure Gauge - Discharge (0 to 2 Bar)	NO	4		6,310.58				6,310.58	25,242.32
	Subtotal for 7.3									296,281.62

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 7 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.4	**TFS Pumping Station**									
7.4.1	Pressure Transmitter - Suction (-1 to 2 bar)	NO	1		3,515.89				3,515.89	3,515.89
7.4.2	Pressure Transmitter - Discharge (0 to 2 Bar)	NO	1		3,515.89				3,515.89	3,515.89
7.4.3	Level Switch	NO	10		8,113.60				8,113.60	81,136.00
	Subtotal for 7.4									88,167.78

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.5	**Utility Pumping Station**									
7.5.1	**Potable Water and Irrigation**									
7.5.1.1	Pressure Transmitter - Suction (-1 to 2 bar)	NO	4		3,515.89				3,515.89	14,063.56
7.5.1.2	Pressure Transmitter - Discharge (0 - 6 bar)	NO	4		3,515.89				3,515.89	14,063.56
7.5.1.3	Pressure Switch - Suction (-1 to 2 bar)	NO	4		6,310.58				6,310.58	25,242.32
7.5.1.4	Pressure Switch - Discharge (0 - 6 bar)	NO	4		6,310.58				6,310.58	25,242.32
7.5.1.5	Pressure Gauge - Suction (-1 to 2 bar)	NO	4		6,310.58				6,310.58	25,242.32
7.5.1.6	Pressure Gauge - Discharge (0 - 6 bar)	NO	4		6,310.58				6,310.58	25,242.32
7.5.2	**Fire Pump**									
7.5.2.1	Pressure Transmitter (0 - 14 bar)	NO	1		6,274.51				6,274.51	6,274.51
7.5.2.2	Deleted (Included in Bill 6)									
7.5.2.3	Pressure Gauge - Suction (-1 to 2 bar)	NO	3		6,310.58				6,310.58	18,931.74
7.5.2.4	Pressure Gauge - Discharge (0 to 14 Bar)	NO	2		6,310.58				6,310.58	12,621.16

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.5.3	**Potable Water, Irrigation and Fire Fighting Overall**									
7.5.3.1	Level Transmitter - Ultrasonic type (0-10m)	NO	5		17,128.71				17,128.71	85,643.55
7.5.3.2	Pressure Transmitter - (0 - 6 bar)	NO	2		6,274.52				6,274.52	12,549.04
7.5.3.3	Level Gauge (0-5m)	NO	5		5,859.82				5,859.82	29,299.10
7.5.3.4	Pressure Transmitter - Suction (-1 to 2 bar)	NO	2		3,515.89				3,515.89	7,031.78
7.5.3.5	Pressure Transmitter - (0 - 10 bar)	NO	2		6,274.52				6,274.52	12,549.04
7.5.3.6	Pressure Gauge (0 - 6 bar)	NO	1		5,859.82				5,859.82	5,859.82
7.5.3.7	Pressure Gauge (0 - 10 bar)	NO	1		5,859.82				5,859.82	5,859.82
	Subtotal for 7.5									325,715.96

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES					BILL NO: 7 Materials Supply	
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment					Rev. 03	
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.6	**Compressor Building**									
7.6.1	Pressure Transmitter	NO	6		6,274.51				6,274.51	37,647.06
7.6.2	Pressure Gauge	NO	6		5,859.82				5,859.82	35,158.92
	Subtotal for 7.6									72,805.98

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L.

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
7.7	**Land and Under Floor Drainage Lift Station**									
7.7.1	Level Switch	NO	3		8,113.60				8,113.60	24,340.80
	Subtotal for 7.7									24,340.80

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR				BILL OF QUANTITIES						BILL NO: 7 Materials Supply
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A				Supply of Instrumentation & Control Equipment						Rev. 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR						AMOUNT (QR)
				USD PART	EUR PART	GBP PART	JPY PART	QAR PART	UNIT	
			(1)	(2)	(3)	(4)	(5)	(6)	(7)=(2)+(3)+(4)+(5)+(6)	(8)=(7)x(1)
	BILL NO. 7 - COLLECTION									
	Subtotal for 7.1									1,540,321.80
	Subtotal for 7.2									1,036,034.50
	Subtotal for 7.3									296,281.62
	Subtotal for 7.4									88,167.78
	Subtotal for 7.5									325,715.96
	Subtotal for 7.6									72,805.98
	Subtotal for 7.7									24,340.80
	Carried Forward to General Summary									**3,383,668.44**

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

Bill No. 8 - PRPS 1

WATER SECURITY MEGARESERVOIR:
Construction of Mega reservoir

GTC/626A/2014

GTC

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.1	**Items shall include for all necessary works in accordance with the drawings and specification**				
8.1.1	Site Grading - Cut and fill for proper levels and lines, including disposal of surplus material away from site.	LS		-	Included
8.1.2	Removing of stockpiles away from site.	LS		16,389,367.83	16,389,367.83
8.1.3	Supply and Construct new Boundary wall around the perimeter of the new site.	LM	4,600	4,153.68	19,106,928.00
8.1.4	11.5 m wide 4 m high electrically operated gates at main entrance/exit.	NO	2	61,655.05	123,310.10
8.1.5	11.5 m wide 4 m high electrically operated gates at tanker filling station entrance/exit.	NO	2	61,655.05	123,310.10
8.2	**Construction of reinforced concrete reservoirs (4 Nr.)**				
	Scope shall include initial tests, swabbing, sterilizing, flushing , draining and all other works required for a complete installation.				
8.2.1	Reservoir No. 1 complete	NO	1	248,306,795.72	248,306,795.72
8.2.2	Reservoir No. 2 complete	NO	1	248,851,065.74	248,851,065.74
8.2.3	Reservoir No. 3 complete	NO	1	244,947,878.16	244,947,878.16
8.2.4	Reservoir No. 4 complete	NO	1	242,287,031.13	242,287,031.13
8.3	**Construction of Pumping Stations**				
	Scope shall include all works required for a complete installation.				
8.3.1	**Main Pump Station/ Control Building**				
8.3.1.1	Excavation and Earthworks	LS		6,175,410.00	6,175,410.00
8.3.1.2	Design and construct piles	LS		6,753,362.03	6,753,362.03
8.3.1.3	Mass concrete blinding	LS		1,288,159.89	1,288,159.89
8.3.1.4	RC Base slab	LS		8,452,612.60	8,452,612.60
8.3.1.5	RC slab at grade	LS		439,349.24	439,349.24
8.3.1.6	Isolated column footings and strip/raft foundation	LS		230,832.38	230,832.38
8.3.1.7	RC Columns	LS		7,325,679.78	7,325,679.78
8.3.1.8	Subgrade concrete protection	LS		-	Included
8.3.1.9	Pre-tendon concrete beams	LS		2,282,715.53	2,282,715.53
8.3.1.10	RC pre-cast hollow core roof slab	LS		1,529,789.50	1,529,789.50
	Carried Forward to Collection				1,054,613,597.73

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.3.1.11	RC Beams and Roof Slab	LS		1,927,113.04	1,927,113.04
8.3.1.12	Roof Slabs (other suspended slabs)	LS		3,876,118.90	3,876,118.90
8.3.1.13	Roof Finishes (Protection/ Insulation)	LS		986,532.89	986,532.89
8.3.1.14	RC Pre-cast concrete stairs	LS		681,313.65	681,313.65
8.3.1.15	Block work walls	LS		1,839,328.58	1,839,328.58
8.3.1.16	Floor finishes	LS		1,065,900.33	1,065,900.33
8.3.1.17	Wall and ceiling finishes	LS		4,490,229.56	4,490,229.56
8.3.1.18	Doors,	LS		923,513.14	923,513.14
8.3.1.19	Windows	LS		413,699.43	413,699.43
8.3.1.20	Architectural cladding	LS		-	Included
8.3.1.21	Structural steel beams for overhead crane	LS		141,446.61	141,446.61
8.3.1.22	Structural steel for stairs and walkways	LS		1,505,396.11	1,505,396.11
8.3.1.23	Metalwork (Walkways, stairs, ladders, Handrails etc.)	LS		5,478,157.92	5,478,157.92
8.3.1.24	Trench/chamber covers	LS		291,083.52	291,083.52
8.3.1.25	Sealing of joints and pipe penetration	LS		-	Included
8.3.1.26	All other works where not included above.	LS		2,971,105.37	2,971,105.37
8.3.2	**Auxiliary Pumping Station**				
8.3.2.1	Excavation and Earthworks	LS		1,982,647.39	1,982,647.39
8.3.2.2	Mass concrete blinding	LS		585,447.55	585,447.55
8.3.2.3	RC Base slab	LS		1,575,761.21	1,575,761.21
8.3.2.4	Slab at grade	LS		20,919.88	20,919.88
8.3.2.5	Isolated column footings and strip/raft foundation	LS		24,436.59	24,436.59
8.3.2.6	RC Columns	LS		1,727,688.22	1,727,688.22
8.3.2.7	Subgrade concrete protection	LS		-	Included
8.3.2.8	RC Beams and Roof Slab	LS		331,037.87	331,037.87
8.3.2.9	RC Pre-cast concrete roof parapet	LS		31,856.26	31,856.26
8.3.2.10	Roof Slabs (other suspended slabs)	LS		209,319.55	209,319.55
	Carried Forward to Collection				33,080,053.57

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.3.2.11	Roof Finishes (Protection/ Insulation)	LS		12,784.81	12,784.81
8.3.2.12	Block work walls	LS		54,819.75	54,819.75
8.3.2.13	Floor finishes	LS		5,486.97	5,486.97
8.3.2.14	Wall and ceiling finishes	LS		40,200.96	40,200.96
8.3.2.15	Doors	LS		5,969.49	5,969.49
8.3.2.16	Windows	LS		-	Included
8.3.2.17	Architectural cladding	LS		90,591.12	90,591.12
8.3.2.18	Metalwork (Walkways, stairs, ladders, Handrails etc.)	LS		196,882.54	196,882.54
8.3.2.19	Trench/chamber covers	LS		7,876.38	7,876.38
8.3.2.20	Sealing of joints and pipe penetration	LS		-	Included
8.3.2.21	All other works where not included above.	LS		438,045.46	438,045.46
8.3.3	**Tanker Filling Pump Station**	LS			
8.3.3.1	Excavation and Earthworks	LS		429,012.47	429,012.47
8.3.3.2	Slab at grade	LS		259,368.75	259,368.75
8.3.3.3	Isolated column footings and strip/raft foundation	LS		360,992.45	360,992.45
8.3.3.4	RC Columns	LS		469,712.81	469,712.81
8.3.3.5	Subgrade concrete protection	LS		-	Included
8.3.3.6	RC Beams and Roof Slab	LS		154,551.52	154,551.52
8.3.3.7	RC Pre-cast concrete roof parapet	LS		23,804.22	23,804.22
8.3.3.8	Roof Finishes (Protection/ Insulation)	LS		7,063.24	7,063.24
8.3.3.9	Block work walls	LS		44,166.49	44,166.49
8.3.3.10	Floor finishes	LS		2,497.66	2,497.66
8.3.3.11	Wall and ceiling finishes	LS		30,060.21	30,060.21
8.3.3.12	Doors	LS		5,969.49	5,969.49
8.3.3.13	Windows	LS		-	Included
8.3.3.14	Architectural cladding	LS		51,706.56	51,706.56
8.3.3.15	Metalwork (Handrails etc.)	LS		18,951.48	18,951.48
8.3.3.16	Trench/chamber covers	LS		5,618.34	5,618.34
8.3.3.17	Sealing of joints and pipe penetration	LS		-	Included
8.3.3.18	All other works where not included above.	LS		162,979.40	162,979.40
	Carried Forward to Collection				2,879,112.57

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.3.4	**Utility Pump Station (Fire/Potable/Irrigation), all water tanks, valve chambers and related pipe works**				
8.3.4.1	**Pump Station**				
8.3.4.1.1	Excavation and Earthworks	LS		31,811.09	31,811.09
8.3.4.1.2	Slab at grade	LS		56,416.18	56,416.18
8.3.4.1.3	Isolated column footings and strip/raft foundation	LS		51,609.05	51,609.05
8.3.4.1.4	RC Columns	LS		80,988.29	80,988.29
8.3.4.1.5	Subgrade concrete protection	LS		-	Included
8.3.4.1.6	RC Beams and Roof Slab	LS		88,000.13	88,000.13
8.3.4.1.7	RC Pre-cast concrete roof parapet	LS		53,070.98	53,070.98
8.3.4.1.8	Roof Finishes (Protection/ Insulation)	LS		19,872.03	19,872.03
8.3.4.1.9	Block work walls	LS		104,585.10	104,585.10
8.3.4.1.10	Floor finishes	LS		6,217.01	6,217.01
8.3.4.1.11	Wall and ceiling finishes	LS		96,345.89	96,345.89
8.3.4.1.12	Doors	LS		20,565.89	20,565.89
8.3.4.1.13	Windows	LS		-	Included
8.3.4.1.14	Architectural cladding	LS		105,490.69	105,490.69
8.3.4.1.15	Structural steel beams for overhead crane	LS		7,577.50	7,577.50
8.3.4.1.16	Metalwork (Handrails etc.)	LS		43,909.17	43,909.17
8.3.4.1.17	Trench/chamber covers	LS		7,935.24	7,935.24
8.3.4.1.18	Sealing of joints and pipe penetration	LS		-	Included
8.3.4.1.19	All other works where not included above.	LS		135,284.93	135,284.93
8.3.4.2	**Utility Storage Tanks** 145 m³ capacity Fire Water Tank and Valve chambers including all related pipe works	LS		409,337.69	409,337.69
8.3.4.3	30 m³ capacity Irrigation Water Tank and Valve chambers including all related pipe works	LS		147,324.12	147,324.12
8.3.4.4	10 m^3 capacity Potable Water Tank and Valve chambers including all related pipe works	LS		65,792.53	65,792.53
	Carried Forward to Collection				1,532,133.51

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4	**Site Buildings**				
	Supply materials and construct site buildings.				
8.4.1	**Chlorination Building**				
8.4.1.1	Excavation and Earthworks	LS		101,843.12	101,843.12
8.4.1.2	Slab at grade	LS		146,616.94	146,616.94
8.4.1.3	Isolated column footings and strip/raft foundation	LS		175,420.19	175,420.19
8.4.1.4	RC Columns	LS		203,325.85	203,325.85
8.4.1.5	Subgrade concrete protection	LS		-	Included
8.4.1.6	RC Beams and Roof Slab	LS		368,394.79	368,394.79
8.4.1.7	RC Pre-cast concrete roof parapet	LS		133,539.30	133,539.30
8.4.1.8	Roof Finishes (Protection/ Insulation)	LS		76,618.18	76,618.18
8.4.1.9	Block work walls	LS		436,244.79	436,244.79
8.4.1.10	Floor finishes	LS		35,460.70	35,460.70
8.4.1.11	Wall and ceiling finishes	LS		386,208.19	386,208.19
8.4.1.12	Doors	LS		201,997.00	201,997.00
8.4.1.13	Windows	LS		12,103.62	12,103.62
8.4.1.14	Architectural cladding	LS		268,525.28	268,525.28
8.4.1.15	Metalwork (Handrails etc.)	LS		111,484.97	111,484.97
8.4.1.16	Trench/chamber covers	LS		12,472.71	12,472.71
8.4.1.17	Structural steel beams for overhead crane	LS		69,005.74	69,005.74
8.4.1.18	All other works where not included above.	LS		491,339.07	491,339.07
8.4.2	**Air Compressor Building**				
8.4.2.1	Excavation and Earthworks	LS		60,925.26	60,925.26
8.4.2.2	Slab at grade	LS		95,606.24	95,606.24
	Carried Forward to Collection				3,387,131.94

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.2.3	Isolated column footings and strip/raft foundation	LS		100,296.49	100,296.49
8.4.2.4	RC Columns	LS		127,957.39	127,957.39
8.4.2.5	Subgrade concrete protection	LS		-	Included
8.4.2.6	RC Beams and Roof Slab	LS		171,822.45	171,822.45
8.4.2.7	RC Pre-cast concrete roof parapet	LS		64,544.63	64,544.63
8.4.2.8	Roof Finishes (Protection/ Insulation)	LS		40,774.66	40,774.66
8.4.2.9	Block work walls	LS		118,321.26	118,321.26
8.4.2.10	Floor finishes	LS		11,306.60	11,306.60
8.4.2.11	Wall and ceiling finishes	LS		122,697.45	122,697.45
8.4.2.12	Doors	LS		221,308.72	221,308.72
8.4.2.13	Windows	LS		8,090.52	8,090.52
8.4.2.14	Architectural cladding	LS		85,327.46	85,327.46
8.4.2.15	Metalwork (Handrails etc.)	LS		37,420.22	37,420.22
8.4.2.16	Trench/chamber covers	LS		12,906.13	12,906.13
8.4.2.17	All other works where not included above.	LS		225,168.91	225,168.91
8.4.3	**Water Testing Facility Building**				
8.4.3.1	Excavation and Earthworks	LS		45,114.16	45,114.16
8.4.3.2	Slab at grade	LS		32,531.19	32,531.19
8.4.3.3	Isolated column footings and strip/raft foundation	LS		146,474.44	146,474.44
8.4.3.4	RC Columns	LS		42,425.73	42,425.73
8.4.3.5	Subgrade concrete protection	LS		-	Included
8.4.3.6	RC Beams and Roof Slab	LS		140,423.08	140,423.08
8.4.3.7	RC Pre-cast concrete roof parapet	LS		51,537.30	51,537.30
	Carried Forward to Collection				1,806,448.79

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.3.8	Roof Finishes (Protection/ Insulation)	LS		28,511.65	28,511.65
8.4.3.9	Block work walls	LS		126,897.86	126,897.86
8.4.3.10	Floor finishes	LS		135,043.45	135,043.45
8.4.3.11	Wall and ceiling finishes	LS		206,594.79	206,594.79
8.4.3.12	Doors	LS		95,427.84	95,427.84
8.4.3.13	Windows	LS		26,483.80	26,483.80
8.4.3.14	Architectural cladding	LS		123,157.73	123,157.73
8.4.3.15	Metalwork (Handrails etc.)	LS		33,307.86	33,307.86
8.4.3.16	All other works where not included above.	LS		223,754.37	223,754.37
3.4.4	**MV and Generator Building**				
8.4.4.1	Excavation and Earthworks	LS		628,028.46	628,028.46
8.4.4.2	Mass concrete blinding	LS		74,411.14	74,411.14
8.4.4.3	RC Base slab	LS		503,439.08	503,439.08
8.4.4.4	Slab at grade	LS		184,409.13	184,409.13
8.4.4.5	Isolated column footings and strip/raft foundation	LS		268,429.40	268,429.40
8.4.4.6	RC Columns	LS		741,259.25	741,259.25
8.4.4.7	Subgrade concrete protection	LS		-	Included
8.4.4.8	RC Beams and Roof Slab	LS		400,066.21	400,066.21
8.4.4.9	Roof Slabs (others suspended slabs)	LS		722,674.21	722,674.21
8.4.4.10	RC Pre-cast concrete roof parapet	LS		183,025.35	183,025.35
8.4.4.11	Roof Finishes (Protection/ Insulation)	LS		184,632.12	184,632.12
8.4.4.12	Block work walls	LS		500,363.72	500,363.72
8.4.4.13	Floor finishes	LS		77,370.35	77,370.35
	Carried Forward to Collection				5,467,287.77

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.4.14	Wall and ceiling finishes	LS		559,163.04	559,163.04
8.4.4.15	Doors	LS		115,826.07	115,826.07
8.4.4.16	Windows	LS		175,064.38	175,064.38
8.4.4.17	Architectural cladding	LS		366,791.01	366,791.01
8.4.4.18	Metalwork (Handrails etc.)	LS		147,724.56	147,724.56
8.4.4.19	Trench/chamber covers	LS		49,233.98	49,233.98
8.4.4.20	All other works where not included above.	LS		525,143.27	525,143.27
8.4.5	**Maintenance workshop Building**				
8.4.5.1	Excavation and Earthworks	LS		100,098.73	100,098.73
8.4.5.2	Slab at grade	LS		140,852.35	140,852.35
8.4.5.3	Isolated column footings and strip/raft foundation	LS		159,972.98	159,972.98
8.4.5.4	RC Columns	LS		128,386.11	128,386.11
8.4.5.5	Subgrade concrete protection	LS		-	Included
8.4.5.6	RC Beams and Roof Slab	LS		348,391.21	348,391.21
8.4.5.7	RC Pre-cast concrete roof parapet	LS		122,818.26	122,818.26
8.4.5.8	Roof Finishes (Protection/ Insulation)	LS		71,900.37	71,900.37
8.4.5.9	Block work walls	LS		320,873.35	320,873.35
8.4.5.10	Floor finishes	LS		72,222.51	72,222.51
8.4.5.11	Wall and ceiling finishes	LS		422,720.84	422,720.84
8.4.5.12	Doors	LS		274,712.51	274,712.51
8.4.5.13	Windows	LS		24,942.37	24,942.37
8.4.5.14	Architectural cladding	LS		182,182.29	182,182.29
8.4.5.15	Structural steel beams for overhead crane	LS		33,239.97	33,239.97
	Carried Forward to Collection				4,342,260.16

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.5.16	Metalwork (Handrails etc.)	LS		83,608.76	83,608.76
8.4.5.17	All other works where not included above.	LS		276,922.06	276,922.06
8.4.6	**Main Guard House Building**				
8.4.6.1	Excavation and Earthworks	LS		26,494.65	26,494.65
8.4.6.2	Slab at grade	LS		18,660.79	18,660.79
8.4.6.3	Isolated column footings and strip/raft foundation	LS		86,239.61	86,239.61
8.4.6.4	RC Columns	LS		105,132.74	105,132.74
8.4.6.5	Subgrade concrete protection	LS		-	Included
8.4.6.6	RC Beams and Roof Slab	LS		422,713.27	422,713.27
8.4.6.7	RC Pre-cast concrete roof parapet	LS		-	Included
8.4.6.8	Roof Finishes (Protection/ Insulation)	LS		81,195.99	81,195.99
8.4.6.9	Block work walls	LS		76,512.04	76,512.04
8.4.6.10	Floor finishes	LS		13,278.03	13,278.03
8.4.6.11	Wall and ceiling finishes	LS		142,453.15	142,453.15
8.4.6.12	Doors	LS		26,150.16	26,150.16
8.4.6.13	Windows	LS		24,022.07	24,022.07
8.4.6.14	Architectural cladding	LS		70,900.79	70,900.79
8.4.6.15	Metalwork (Handrails etc.)	LS		29,875.48	29,875.48
8.4.6.16	All other works where not included above.	LS		77,476.24	77,476.24
8.4.7	**Tanker Filling Station Guard House (2 No. Buildings)**				
8.4.7.1	Excavation and Earthworks	LS		22,710.72	22,710.72
8.4.7.2	Slab at grade	LS		18,976.30	18,976.30
8.4.7.3	Isolated column footings and strip/raft foundation	LS		40,927.58	40,927.58
	Carried Forward to Collection				1,644,250.43

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.7.4	RC Columns	LS		23,270.30	23,270.30
8.4.7.5	Subgrade concrete protection	LS		-	Included
8.4.7.6	RC Beams and Roof Slab	LS		42,854.23	42,854.23
8.4.7.7	RC Pre-cast concrete roof parapet	LS		34,248.83	34,248.83
8.4.7.8	Roof Finishes (Protection/ Insulation)	LS		7,348.80	7,348.80
8.4.7.9	Block work walls	LS		68,566.02	68,566.02
8.4.7.10	Floor finishes	LS		11,340.35	11,340.35
8.4.7.11	Wall and ceiling finishes	LS		58,139.06	58,139.06
8.4.7.12	Doors	LS		11,256.55	11,256.55
8.4.7.13	Windows	LS		19,119.90	19,119.90
8.4.7.14	Architectural cladding	LS		87,459.30	87,459.30
8.4.7.15	Metalwork (Handrails etc.)	LS		20,832.52	20,832.52
8.4.7.16	All other works where not included above.	LS		97,711.10	97,711.10
8.4.8	**Remote Generator Building**				
8.4.8.1	Excavation and Earthworks	LS		37,274.11	37,274.11
8.4.8.2	Slab at grade	LS		43,237.92	43,237.92
8.4.8.3	Isolated column footings and strip/raft foundation	LS		43,064.22	43,064.22
8.4.8.4	RC Columns	LS		42,833.08	42,833.08
8.4.8.5	Subgrade concrete protection	LS		-	Included
8.4.8.6	RC Beams and Roof Slab	LS		79,852.35	79,852.35
8.4.8.7	RC Pre-cast concrete roof parapet	LS		37,563.13	37,563.13
8.4.8.8	Roof Finishes (Protection/ Insulation)	LS		14,600.11	14,600.11
8.4.8.9	Block work walls	LS		79,742.54	79,742.54
8.4.8.10	Floor finishes	LS		4,551.13	4,551.13
8.4.8.11	Wall and ceiling finishes	LS		56,556.72	56,556.72
	Carried Forward to Collection				921,422.27

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.8.12	Doors	LS		8,310.48	8,310.48
8.4.8.13	Windows	LS		20,431.39	20,431.39
8.4.8.14	Architectural cladding	LS		99,071.95	99,071.95
8.4.8.15	Trench/chamber covers	LS		32,424.94	32,424.94
8.4.8.16	Metalwork (Handrails etc.)	LS		31,138.93	31,138.93
8.4.8.17	All other works where not included above.	LS		81,765.68	81,765.68
8.4.9	**Remote Substation Building (2 No. Buildings)**				
8.4.9.1	Excavation and Earthworks	LS		69,202.77	69,202.77
8.4.9.2	Slab at grade	LS		105,113.04	105,113.04
8.4.9.3	Isolated column footings and strip/raft foundation	LS		79,244.07	79,244.07
8.4.9.4	RC Columns	LS		97,899.80	97,899.80
8.4.9.5	Subgrade concrete protection	LS		-	Included
8.4.9.6	RC Beams and Roof Slab	LS		148,559.14	148,559.14
8.4.9.7	RC Pre-cast concrete roof parapet	LS		67,006.03	67,006.03
8.4.9.8	Roof Finishes (Protection/ Insulation)	LS		33,223.74	33,223.74
8.4.9.9	Block work walls	LS		178,517.10	178,517.10
8.4.9.10	Floor finishes	LS		10,229.49	10,229.49
8.4.9.11	Wall and ceiling finishes	LS		127,809.21	127,809.21
8.4.9.12	Doors	LS		21,307.18	21,307.18
8.4.9.13	Windows	LS		-	Included
8.4.9.14	Architectural cladding	LS		187,104.88	187,104.88
8.4.9.15	Trench/chamber covers	LS		95,802.76	95,802.76
8.4.9.16	Metalwork (Handrails etc.)	LS		70,412.16	70,412.16
8.4.9.17	All other works where not included above.	LS		190,194.04	190,194.04
	Carried Forward to Collection				1,754,768.78

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.10	**Remote Substation Building at Reservoirs (2 No. Buildings)**				
8.4.10.1	Excavation and Earthworks	LS		110,868.10	110,868.10
8.4.10.2	Slab at grade	LS		150,409.02	150,409.02
8.4.10.3	Isolated column footings and strip/raft foundation	LS		136,700.93	136,700.93
8.4.10.4	RC Columns	LS		172,150.05	172,150.05
8.4.10.5	Subgrade concrete protection	LS		-	Included
8.4.10.6	RC Beams and Roof Slab	LS		217,525.38	217,525.38
8.4.10.7	RC Pre-cast concrete roof parapet	LS		103,683.76	103,683.76
8.4.10.8	Roof Finishes (Protection/ Insulation)	LS		40,663.02	40,663.02
8.4.10.9	Block work walls	LS		249,714.77	249,714.77
8.4.10.10	Floor finishes	LS		13,591.00	13,591.00
8.4.10.11	Wall and ceiling finishes	LS		177,947.44	177,947.44
8.4.10.12	Doors	LS		70,632.82	70,632.82
8.4.10.13	Windows	LS		6,936.82	6,936.82
8.4.10.14	Architectural cladding	LS		266,377.93	266,377.93
8.4.10.15	Trench/chamber covers	LS		147,205.24	147,205.24
8.4.10.16	Metalwork (Handrails etc.)	LS		100,578.55	100,578.55
8.4.10.17	All other works where not included above.	LS		214,555.10	214,555.10
8.4.11	**Water Quality Monitoring Building (4 No. Buildings)**				
8.4.11.1	Excavation and Earthworks	LS		24,861.13	24,861.13
8.4.11.2	Slab at grade	LS		12,303.20	12,303.20
8.4.11.3	Isolated column footings and strip/raft foundation	LS		37,079.33	37,079.33
8.4.11.4	RC Columns	LS		188,594.33	188,594.33
8.4.11.5	Subgrade concrete protection	LS		-	Included
	Carried Forward to Collection				2,442,377.92

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.11.6	RC Beams and Roof Slab	LS		41,978.12	41,978.12
8.4.11.7	RC Pre-cast concrete roof parapet	LS		28,631.08	28,631.08
8.4.11.8	Roof Finishes (Protection/ Insulation)	LS		5,852.97	5,852.97
8.4.11.9	Block work walls	LS		71,453.71	71,453.71
8.4.11.10	Floor finishes	LS		1,995.81	1,995.81
8.4.11.11	Wall and ceiling finishes	LS		62,981.65	62,981.65
8.4.11.12	Doors	LS		12,475.19	12,475.19
8.4.11.13	Windows	LS		17,667.10	17,667.10
8.4.11.14	Architectural cladding	LS		127,832.25	127,832.25
8.4.11.15	Metalwork (Handrails etc.)	LS		57,157.79	57,157.79
8.4.11.16	All other works where not included above.	LS		94,892.03	94,892.03
8.4.12	**KIOSK Buildings at Scour drain down valve, Surge Vessel and Inlet Chamber locations. (7 No. Buildings)**				
8.4.12.1	Excavation and Earthworks	LS		34,805.53	34,805.53
8.4.12.2	Slab at grade	LS		17,224.48	17,224.48
8.4.12.3	Isolated column footings and strip/raft foundation	LS		51,911.06	51,911.06
8.4.12.4	RC Columns	LS		264,032.10	264,032.10
8.4.12.5	Subgrade concrete protection	LS		-	Included
8.4.12.6	RC Beams and Roof Slab	LS		58,769.33	58,769.33
8.4.12.7	RC Pre-cast concrete roof parapet	LS		40,083.53	40,083.53
8.4.12.8	Roof Finishes (Protection/ Insulation)	LS		8,194.26	8,194.26
8.4.12.9	Block work walls	LS		100,035.21	100,035.21
8.4.12.10	Floor finishes	LS		2,794.14	2,794.14
8.4.12.11	Wall and ceiling finishes	LS		88,174.34	88,174.34
	Carried Forward to Collection				1,188,941.68

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.4.12.12	Doors	LS		17,465.27	17,465.27
8.4.12.13	Windows	LS		24,733.95	24,733.95
8.4.12.14	Architectural cladding	LS		178,965.15	178,965.15
8.4.12.15	Metalwork (Handrails etc,)	LS		80,020.92	80,020.92
8.4.12.16	All other works where not included above.	LS		162,473.84	162,473.84
8.5	**Other Structures** **Supply materials and construct supporting structures**				
8.5.1	Main Bulk fuel storage Facility	NO	1	1,095,555.44	1,095,555.44
8.5.2	Single Bulk fuel storage Facility	NO	2	278,195.88	556,391.76
8.5.3	**Drainage Lagoons maximum 6.5 m deep as shown on drawings. The work shall include civil, structural and miscellaneous works as shown on drawing. hydraulic tests to be preformed by the contractor.**				
8.5.3.1	Lagoon No 1	NO	1	68,309,043.24	68,309,043.24
8.5.3.2	Lagoon No 2	NO	1	40,991,925.12	40,991,925.12
8.5.3.3	Lagoon No 3 (Standby)	NO	1	16,964,463.99	16,964,463.99
8.5.4	Surge suppression plant as per contractor's design	LS		3,136,304.37	3,136,304.37
8.5.5	Tanker Filling Station area including necessary civil works for tanker fill stations	LS		2,485,083.36	2,485,083.36
8.5.6	Cable Gallery between Main Pump Station and MV /Generator Building	LS		846,324.53	846,324.53
8.6	**Site Works** **Supply materials and construct integrated permanent site facilities as per drawings and specifications with all necessary miscellaneous works.**				
8.6.1	Internal road network and parking areas including curbing, shall include shaded parking, road markings and road signs etc.	LS		35,579,562.42	35,579,562.42
8.6.2	Main access road to PRPS site and external parking areas including paving, shall include shaded parking, road markings and road signs etc.	LS		12,417,786.91	12,417,786.91
	Carried Forward to Collection				182,846,100.27

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.6.3	**Landscaping**				
8.6.3.1	Hard Landscaping	LS		4,544,368.34	4,544,368.34
8.6.3.2	Soft Landscaping	LS		425,168.78	425,168.78
8.6.4	Irrigation system	LS		1,302,812.06	1,302,812.06
8.6.5	**Storm water system-Flood relief channel**				
8.6.5.1	Storm water system consisting of combination of VC for dia. below 1000 mm and Concrete pipes for dia. above 1000 mm	LS		26,337,263.21	26,337,263.21
8.6.5.2	Flood relief channel /overflow collector consisting of RC 2.5 m wide flood relief channel and RC 3-4.5 m wide over flow channel at variable depths.	LS		30,895,191.16	30,895,191.16
8.6.6	Reservoir under floor drainage collecting system and Leak detection system. Scope shall include supply and installation of perforated ESVC pipes as specified. (Approximately 56,000 m ESVC Pipes) housed in non fine concrete channel and placed at each constriction joints as shown on the drawings	LS		49,721,162.40	49,721,162.40
8.6.7	Potable water system	LS		941,074.97	941,074.97
8.6.8	Foul sewage collecting system and septic tanks	LS		1,983,604.02	1,983,604.02
8.6.9	Waste water (Oil Interceptor) System	LS		534,813.30	534,813.30
8.6.10	Civil Defense approved External fire fighting system	LS		900,342.57	900,342.57
8.6.11	Electrical and instrumentation Cable duct	LS		2,369,834.52	2,369,834.52
8.6.12	Street Lighting	LS		1,971,532.33	1,971,532.33
8.6.13	Security System	LS		1,595,732.17	1,595,732.17
8.6.14	Land Drainage system comprising of 300 mm perforated VC pipes surrounded in 14 mm single size rounded gravel as shown on drawing.	LS		5,838,288.02	5,838,288.02
	Carried Forward to Collection				129,361,187.85

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.7	**Interconnection process pipe works and chambers**				
	Laying and jointing and testing (all tests required) of DI/Carbon Steel pipes and fittings in trenches including Excavation, Backfilling, disposal, laying, bedding and surrounds. The scope shall include required supports for pipes and fitting, anchorage system, Polyethylene sleeve, wrapping of couplings and flanges outside chambers and any other works necessary to complete the installation. The work shall also include initial tests, swabbing, flushing , draining and blanking of ends at connection points to keep pipe in a clean condition until connecting pipes become available. The scope shall include design, supply and installation cathodic protection of CS and also any additional works required to suit site requirements.				
	Pipes				
8.7.1	**2400 mm dia. Carbon Steel Pipes**				
8.7.1.1	Depth to invert up to 3.5 m	LM	-		
8.7.2	**2200 mm dia. Carbon Steel Pipes**				
8.7.2.1	Deleted				
8.7.2.2	Depth to invert 3.5 -5 m	LM	247	4,621.20	1,141,436.40
8.7.2.3	Depth to invert 5- 6.5 m	LM	673	5,933.45	3,993,211.85
8.7.2.4	Depth to invert 6.5 - 8 m	LM	380	7,308.79	2,777,340.20
8.7.2.5	Depth to invert 8 - 10 m	LM	423	9,676.28	4,093,066.44
8.7.3	**2000 mm dia. Carbon Steel Pipes**				
8.7.3.1	Depth to invert 5- 6.5 m	LM	840	5,659.29	4,753,803.60
8.7.3.2	Depth to invert 8 - 10 m	LM	760	8,991.05	6,833,198.00
	Carried Forward to Collection				23,592,056.49

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
	Interconnection process pipe works and chambers cont'd				
8.7.4	**1600 mm dia. DI Pipe**				
8.7.4.1	Depth to invert up to 3.5 m	LM	150	3,225.62	483,843.00
8.7.4.2	Depth to invert 3.5 -5 m	LM	825	3,815.45	3,147,746.25
8.7.4.3	Depth to invert 5- 6.5 m	LM	1,600	4,945.67	7,913,072.00
8.7.4.4	Depth to invert 6.5 - 8 m	LM	1,615	6,150.47	9,933,009.05
8.7.5	**1400 mm dia. DI Pipe**				
8.7.5.1	Depth to invert 3.5 -5 m	LM	160	3,797.25	607,560.00
8.7.5.2	Depth to invert 5- 6.5 m	LM	50	4,563.40	228,170.00
8.7.5.3	Depth to invert 8 - 10 m	LM	100	7,666.79	766,679.00
8.7.6	**1200 mm dia. DI Pipe**				
8.7.6.1	Depth to invert up to 3.5 m	LM	170	2,730.98	464,266.60
8.7.6.2	Depth to invert 3.5 -5 m	LM	695	3,140.96	2,182,967.20
8.7.6.3	Depth to invert 5- 6.5 m	LM	860	4,125.47	3,547,904.20
8.7.6.4	Depth to invert 6.5 - 8 m	LM	1,500	5,211.35	7,817,025.00
8.7.6.5	Depth to invert 8 - 10 m	LM	500	7,055.38	3,527,690.00
8.7.6.6	Depth to invert exceeding 10 m	LM	125	9,550.34	1,193,792.50
8.7.7	**900 mm dia. DI Pipe**				
8.7.7.1	Depth to invert up to 3.5 m	LM	100	2,258.98	225,898.00
8.7.7.2	Depth to invert 5- 6.5 m	LM	-		
	Carried Forward to Collection				42,039,622.80

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
	Interconnection process pipe works and chambers cont'd				
8.7.8	**800 mm dia. DI Pipe**				
8.7.8.1	Depth to invert to 3.5 m	LM	460	2,003.02	921,389.20
8.7.8.2	Depth to invert 3.5 -5 m	LM	68	2,330.51	158,474.68
8.7.8.3	Depth to invert 5- 6.5 m	LM	9	3,138.04	28,242.36
8.7.8.4	Depth to invert 6.5 - 8 m	LM	45	4,057.98	182,609.10
8.7.8.5	Depth to invert 8 - 10 m	LM	1,193	5,635.48	6,723,127.64
8.7.8.6	Depth to invert exceeding 10 m	LM	190	7,811.99	1,484,278.10
8.7.9	**600 mm dia. DI Pipe**				
8.7.9.1	Depth to invert 3.5 -5 m	LM	30	2,483.28	74,498.40
8.7.9.2	Average Depth to invert 5- 6.5 m	LM	300	2,887.54	866,262.00
8.7.9.3	Depth to invert 6.5 - 8 m	LM	450	3,424.15	1,540,867.50
8.7.9.4	Depth to invert 8 - 10 m	LM	150	4,032.28	604,842.00
8.7.10	**500 mm dia. DI Pipe**				
8.7.10.1	Depth to invert to 3.5 m	LM	270	1,697.40	458,298.00
3.7.11	**350 mm dia. DI Pipe**				
3.7.11.1	Depth to invert up to 3.5 m	LM	160	1,485.41	237,665.60
8.7.12	**300 mm dia. DI Pipe**				
8.7.12.1	Depth to invert 8 - 10 m	LM	-		
8.7.13	**250 mm dia. DI Pipe**				
8.7.13.1	Depth to invert 8 - 10 m	LM	15	3,133.86	47,007.90
8.7.14	**200 mm dia. DI Pipe**				
8.7.14.1	Depth to invert 8 - 10 m	LM	70	2,820.45	197,431.50
	Carried Forward to Collection				13,524,993.98

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
	Interconnection process pipe works and chambers cont'd				
8.7.15	**150 mm dia. DI Pipe**				
8.7.15.1	Depth to invert 5- 6.5 m	LM	66	2,383.29	157,297.14
8.7.16	**Inline Fittings**				
8.7.16.1	2400x2200mm dia. Carbon Steel Reducer	NO	-		
8.7.16.2	2200 mm dia. Carbon Steel welded 90° bends	NO	4	37,537.86	150,151.44
8.7.16.3	2200 mm dia. Carbon Steel welded 45° bends	NO	2	37,537.86	75,075.72
8.7.16.4	2200 mm dia. Carbon Steel welded 11.25° bends	NO	2	37,537.86	75,075.72
8.7.16.5	2200x1200mm dia. Carbon Steel unequal Tee	NO	16	26,193.88	419,102.08
8.7.16.6	2200x2000mm dia. Carbon Steel Reducer	NO	4	15,083.87	60,335.48
8.7.16.7	2000 mm dia. Carbon Steel Equal tee	NO	5	26,250.44	131,252.20
8.7.16.8	2000x1200mm dia. Carbon Steel unequal Tee	NO	16	25,302.62	404,841.92
8.7.16.9	2000 mm dia. Steel Blind Flange	NO	1	14,573.32	14,573.32
8.7.16.10	1600mm dia. DI socketed 45° bends	NO	34	30,618.92	1,041,043.28
8.7.16.11	1600mm dia. DI socketed 22.5° bends	NO	2	30,618.92	61,237.84
8.7.16.12	1600mm dia. DI socketed 11.25° bends	NO	4	30,618.92	122,475.68
8.7.16.13	1600mm dia. DI equal Tee	NO	2	23,453.83	46,907.66
8.7.16.14	1600x900mm dia. DI unequal Tee (Included with Surge Vessel Bill No.9)	NO	-	23,029.22	-
8.7.16.15	1400mm dia. DI socketed 45° bends	NO	11	28,573.67	314,310.37
8.7.16.16	1400mm dia. DI socketed 22.5° bends	NO	1	28,573.67	28,573.67
8.7.16.17	1400x1200 mm dia. Reducer	NO	2	13,362.04	26,724.08
	Carried Forward to Collection				3,128,977.60

KAHRAMAA GTC
CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	Interconnection process pipe works and chambers cont'd				
8.7.16.18	1200mm dia. DI socketed 90° bends	NO	16	25,652.43	410,438.88
8.7.16.19	1200mm dia. DI socketed 45° bends	NO	35	25,652.43	897,835.05
8.7.16.20	1200mm dia. DI socketed 22.5° bends	NO	12	25,652.43	307,829.16
8.7.16.21	1200 mm dia. DI socketed 11.25° bends	NO	5	25,652.43	128,262.15
8.7.16.22	1200 mm dia. DI equal Tee	NO	12	20,973.72	251,684.64
8.7.16.23	1200x900 mm dia. unequal Tee (Included with Surge Vessel Bill No.9)	NO	-		
8.7.16.24	1200 mm dia. Flange Socket	NO	16	12,212.82	195,405.12
8.7.16.25	800 mm dia. DI socketed 90° bends	NO	4	21,524.19	86,096.76
8.7.16.26	800 mm dia. DI socketed 45° bends	NO	12	21,524.19	258,290.28
8.7.16.27	800mm dia. socketed 11.25° bends	NO	2	21,524.19	43,048.38
8.7.16.28	800 mm dia. DI equal Tee	NO	16	15,218.91	243,502.56
8.7.16.29	800 mm dia. Endcap	NO	2	15,218.91	30,437.82
8.7.16.30	600mm dia. DI socketed 90° bends	NO	3	19,746.05	59,238.15
8.7.16.31	600mm dia. DI socketed 45° bends	NO	5	19,746.05	98,730.25
8.7.16.32	600mm dia. DI socketed 22.5° bends	NO	3	19,746.05	59,238.15
8.7.16.33	600 mm dia. DI socketed 11.25° bends	NO	1	19,746.05	19,746.05
8.7.16.34	600 mm dia. DI equal Tee	NO	1	14,549.15	14,549.15
8.7.16.35	500mm dia. socketed 90° bends	NO	2	19,469.60	38,939.20
8.7.16.36	500mm dia. socketed 45° bends	NO	2	19,469.60	38,939.20
8.7.16.37	350 mm dia. DI socketed 90° bends	NO	2	18,965.56	37,931.12
8.7.16.38	350 mm dia. DI equal Tee	NO	2	13,663.87	27,327.74
8.7.16.39	300mm dia. DI socketed 90° bends	NO	-		
8.7.16.40	300mm dia. DI socketed 45° bends	NO	-		
8.7.16.41	250mm dia. DI socketed 45° bends	NO	2	18,697.66	37,395.32
	Carried Forward to Collection				3,284,865.13

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV
GTC

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
	Interconnection process pipe works and chambers cont'd				
8.7.16.42	200 mm dia. socketed 90° bends	NO	1	18,577.25	18,577.25
8.7.16.43	200mm dia. DI socketed 45° bends	NO	1	18,577.25	18,577.25
8.7.16.44	150 mm dia. socketed 90° bends	NO	4	18,458.73	73,834.92
8.7.16.45	150 mm dia. equal Tee	NO	3	13,038.33	39,114.99
8.7.16.46	1200 mm dia. Steel Blind Flange	NO	16	13,627.83	218,045.28
8.7.17	**Thrust Blocks**				
8.7.17.1	RC thrust blocks for bends, reducers, and tees as shown drawings.	LS			Included
8.7.17.2	Design and build piling system for each RC thrust block as shown on drawing.	LS		15,745,687.52	15,745,687.52
	Carried Forward to Collection				16,113,837.21

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
8.7.18	**Chambers** **Supply materials and Construction of reinforced concrete Chambers as detailed on drawings and as specified. Scope of works shall include all necessary works required to suit site requirements. The work shall also include installation, testing and commissioning of all pies, fittings and valves inside the chamber and all works required for a complete installation.**				
8.7.18.1	Reservoir Distribution Inlet chamber for Eight pipes (4xDN1600, 2xDN1200 and 2xDN800) Reference drawing No. MQ174-R1-DH-CI-6020	NO	2	716,193.51	1,432,387.02
8.7.18.2	Reservoir Distribution outlet chamber for single DN2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6021	NO	2	129,361.85	258,723.70
8.7.18.3	Reservoir Inlet chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6022	NO	4	194,826.27	779,305.08
8.7.18.4	Reservoir Scour, Outlet & Inlet chamber Reference drawing No. MQ174-R1-DH-CI-6023- 6025	NO	4	3,233,956.73	12,935,826.92
8.7.18.5	Reservoir Scour & Inlet chamber. Reference drawing No. MQ174-R1-DH-CI-6026	NO	4	576,324.33	2,305,297.32
8.7.18.6	Reservoir Distribution Overflow chamber. Reference drawing No. MQ174-R1-DH-CI-6027	NO	2	1,053,671.60	2,107,343.20
8.7.18.7	Reservoir Overflow arrangement, Reference drawing No. MQ174-R1-DH-CI-6028	NO	12	20,871.43	250,457.16
8.7.18.8	Valve chamber for single DN600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6391	NO	1	103,767.37	103,767.37
8.7.18.9	Valve chamber for single DN 500 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6392	NO	1	89,122.96	89,122.96
8.7.18.10	Valve chamber for single DN350 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6393	NO	1	58,245.68	58,245.68
8.7.18.11	Emergency Tanker Filling Station - Double Arm Filling Point. Reference drawing No. MQ174-R1-DH-CI-6394	NO	5	74,666.99	373,334.95
	Carried Forward to Collection				20,693,811.36

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	Interconnection process pipe works and chambers cont'd				
8.7.18.12	Incoming By-Pass Valve chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6500	NO	2	1,875,197.00	3,750,394.00
8.7.18.13	Incoming By-Pass Valve chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6501	NO	1	2,707,693.79	2,707,693.79
8.7.18.14	Incoming Flow Meter chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6502	NO	1	1,289,224.19	1,289,224.19
8.7.18.15	Incoming Flow Control Valve chamber for Five pipes (4xDN 1600 and 1xDN1200 mm) . Reference drawing No. MQ174-R1-DH-CI-6503	NO	1	1,277,731.55	1,277,731.55
8.7.18.16	Valve chamber for single DN 2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6504	NO	1	432,390.98	432,390.98
8.7.18.17	Valve chamber for single DN 2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6505	NO	1	611,621.74	611,621.74
8.7.18.18	Valve chamber for twin DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6506	NO	2	243,956.66	487,913.32
8.7.18.19	Flow Meter chamber for twin DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6507	NO	2	236,887.89	473,775.78
8.7.18.20	Flow Control Valve chamber for twin pipe DN1200. Reference drawing No. MQ174-R1-DH-CI-6508	NO	2	269,589.43	539,178.86
8.7.18.21	Valve chamber for twin DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6509	NO	2	265,293.94	530,587.88
8.7.18.22	Flow Meter chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6510	NO	2	170,696.53	341,393.06
8.7.18.23	Flow Control Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6511	NO	2	187,971.42	375,942.84
8.7.18.24	Valve chamber for single DN2000 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6512	NO	3	323,643.03	970,929.09
	Carried Forward to Collection				13,788,777.08

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	Interconnection process pipe works and chambers cont'd				
8.7.18.25	Valve chamber for single DN2000 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6513	NO	2	580,464.18	1,160,928.36
8.7.18.26	Valve chamber for single DN2000 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6514	NO	1	454,136.26	454,136.26
8.7.18.27	Valve chamber for single DN2200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6515	NO	2	684,944.92	1,369,889.84
8.7.18.28	Combined outgoing Valve chamber for three pipes (2xDN1600 and 1xDN1200). Reference drawing No. MQ174-R1-DH-CI-6516	NO	1	528,108.45	528,108.45
8.7.18.29	Outgoing By-Pass Valve chamber for single DN1600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6517	NO	2	554,911.38	1,109,822.76
8.7.18.30	Outgoing By-Pass Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6518	NO	1	384,849.81	384,849.81
8.7.18.31	Flow Control Valve chamber for single DN1600 mm pipe with By-Pass arrangement. Reference drawing No. MQ174-R1-DH-CI-6519	NO	2	1,946,659.84	3,893,319.68
8.7.18.32	Flow Control Valve chamber for single DN1200 mm pipe with By-Pass arrangement. Reference drawing No. MQ174-R1-DH-CI-6520	NO	1	530,198.87	530,198.87
8.7.18.33	Combined Flow Meter Valve chamber for twin DN1600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6521	NO	1	675,325.01	675,325.01
8.7.18.34	Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6522	NO	1	219,907.14	219,907.14
8.7.18.35	Valve chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6523	NO	1	323,321.84	323,321.84
8.7.18.36	Valve chamber for twin DN1400 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6524	NO	1	512,699.82	512,699.82
8.7.18.37	Valve chamber for single DN800 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6525	NO	1	346,222.57	346,222.57
	Carried Forward to Collection				11,508,730.41

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) / TENSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
	Interconnection process pipe works and chambers cont'd				
8.7.18.38	Flow Meter chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6526	NO	3	202,517.44	607,552.32
8.7.18.39	Valve chamber for single DN 600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6527	NO	1	157,755.71	157,755.71
8.7.18.40	Outgoing Combined Sampling chamber for twin DN1600 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6528	NO	1	518,961.21	518,961.21
8.7.18.41	Outgoing Combined Sampling chamber for single DN1200 mm pipe. Reference drawing No. MQ174-R1-DH-CI-6529	NO	1	175,078.47	175,078.47
8.7.18.42	Air Valve chamber for single DN1400 mm pipe (at any depth). Reference drawing No. MQ174-R1-DH-CI-6530	NO	1	185,421.53	185,421.53
8.7.19	**Land and Under Floor Drainage Lift Station**				
8.7.19.1	Excavation and Earthworks	LS		23,751.22	23,751.22
8.7.19.2	Mass concrete blinding	LS		446.30	446.30
8.7.19.3	RC Base slab	LS		39,470.16	39,470.16
8.7.19.4	Subgrade concrete protection	LS		9,696.63	9,696.63
8.7.19.5	Cover Slabs	LS		534.02	534.02
8.7.19.6	Metalwork (Handrails etc.)	LS		33,173.90	33,173.90
8.7.19.7	Metal covers	LS		3,735.91	3,735.91
8.7.19.8	Sealing of joints and pipe penetration	LS		-	Included
8.7.19.9	All other works where not included above.	LS		212,493.92	212,493.92
	Carried Forward to Collection				1,968,071.30

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 8 Civil Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	BILL NO 8 - Civil Works				
	COLLECTION				
	Total from page 8/26/1R				1,054,613,597.73
	Total from page 8/26/2R				33,080,053.57
	Total from page 8/26/3R				2,879,112.57
	Total from page 8/26/4R				1,532,133.51
	Total from page 8/26/5R				3,387,131.94
	Total from page 8/26/6R				1,806,448.79
	Total from page 8/26/7R				5,467,287.77
	Total from page 8/26/8R				4,342,260.16
	Total from page 8/26/9R				1,644,250.43
	Total from page 8/26/10R				921,422.27
	Total from page 8/26/11R				1,754,768.78
	Total from page 8/26/12R				2,442,377.92
	Total from page 8/26/13R				1,188,941.68
	Total from page 8/26/14R				182,846,100.27
	Total from page 8/26/15R				129,361,187.85
	Total from page 8/26/16R				23,592,056.49
	Total from page 8/26/17R				42,039,622.80
	Total from page 8/26/18R				13,524,993.98
	Total from page 8/26/19R				3,128,977.60
	Total from page 8/26/20R				3,284,865.13
	Total from page 8/26/21R				16,113,837.21
	Total from page 8/26/22R				20,693,811.36
	Total from page 8/26/23R				13,788,777.08
	Total from page 8/26/24R				11,508,730.41
	Total from page 8/26/25R				1,968,071.30
	Carried Forward to General Summary				1,576,910,818.60

Bill No. 9 - PRPS 1

WATER SECURITY MEGARESERVOIR:
Construction of Mega reservoir

GTC/626A/2014

GTC

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
	MEICA works procurement (where not included in the supply BOQ) and installation of the works detailed in the contract and specifications. The cost for the required works is to be divided into the following sections				
9.1	**Mechanical**				
	Pumps **Install test and commissioning of Pumps and related ancillaries in following Pumping Stations, including all the works required for complete installation.**				
9.1.1	**Main Pump Station**				
9.1.1.1	Pump Set-Sub System 1A	NO	4	192,525.98	770,103.92
9.1.1.2	Pump Set-Sub System 1B	NO	5	481,314.94	2,406,574.70
9.1.1.3	Flood Pumps	NO	4	192,525.98	770,103.92
9.1.1.4	Drain Pumps	NO	4	9,626.30	38,505.20
9.1.2	**Auxiliary Pumping Station**				
9.1.2.1	Recirculation Pumps	NO	4	288,788.96	1,155,155.84
9.1.2.2	Drain Down Return Pumps	NO	2	192,525.98	385,051.96
9.1.2.3	Scour Pumps	NO	2	28,878.90	57,757.80
9.1.2.4	Drain Pumps	NO	2	9,626.30	19,252.60
9.1.3	**Tanker Filling Pump Station**				
9.1.3.1	Main Pumps	NO	4	38,505.19	154,020.76
9.1.3.2	Drain Pumps	NO	2	7,219.73	14,439.46
9.1.4	**Utility Pump Station**				
9.1.4.1	Fire water Pumps (Electrical & Engine driven)	NO	2	38,505.19	77,010.38
9.1.4.2	Jockey Pump	NO	2	4,813.15	9,626.30
9.1.4.3	Potable water Pumps	NO	2	14,439.45	28,878.90
9.1.4.4	Irrigation Pumps	NO	2	9,626.30	19,252.60
9.1.5	**Land and Under Floor Drainage Lift Station**				
9.1.5.1	Electrically driven, Submersible Pump	NO	3	11,552.48	34,657.44
	Carried Forward to Collection				5,940,391.78

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	Pumping Station Pipe works **Install test and commissioning of pipe works in following Pumping Stations/Pumps, including all the works required for complete installation.** **Note: Contractor to supply all the pipes, fittings, valves and accessories where not included in the supply BOQ.**				
9.1.6	**Main Pump Station**				
9.1.6.1	Pump Set-Sub System 1A and Pump Set-Sub System 1B	LS		4,191,097.93	4,191,097.93
9.1.6.2	Flood Pumps	LS		116,670.76	116,670.76
9.1.6.3	Drain Pumps	LS		-	Included
9.1.7	**Auxiliary Pumping Station**				
9.1.7.1	Recirculation Pumps	LS		1,068,904.21	1,068,904.21
9.1.7.2	Drain Down Pumps	LS		-	Included
9.1.7.3	Scour Pumps	LS		-	Included
9.1.7.4	Drain Pumps	LS		-	Included
9.1.8	**Tanker Filling Pump Station**				
9.1.8.1	Main Pumps	LS		227,084.38	227,084.38
9.1.8.2	Drain Pumps	LS		-	Included
9.1.9	**Utility Pump Station**				
9.1.9.1	Fire water Pumps and Jockey Pump	LS		90,968.52	90,968.52
9.1.9.2	Potable water Pumps	LS		19,830.16	19,830.16
9.1.9.3	Irrigation Pumps	LS		-	Included
9.1.10	**Land and Under Floor Drainage Lift Station**				
9.1.10.1	Submersible Pumps	LS		46,206.24	46,206.24
	Carried Forward to Collection				5,760,762.20

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.1.11	**Surge System** **Design, Supply install test and commissioning of Surge system including but not limited to listed below.**				
9.1.11.1	Surge analysis to be carried out by the contractor and a comprehensive report to be submitted to the engineer for approval.	LS		624,110.37	624,110.37
9.1.11.2	Surge Vessels (8 nr 3000Øx19000 mm, and 3 nr 3000Øx15800 mm) including procurement (where not included in supply BOQ) and installation of connection pipes, fittings, valves as detailed and supply and install, all instrumentation and ancillary items required for complete installation.	LS		28,991,598.82	28,991,598.82
9.1.12	**Compressed Air System** **Install test and commissioning of following equipment including all the works required for complete installation.**				
9.1.12.1	Air Compressors, Oil Free Rotary Screw type	NO	5	120,328.73	601,643.65
9.1.12.2	Air Receiver	NO	3	19,252.60	57,757.80
9.1.12.3	Supply and install air pipe work including fittings, valves and all equipment and miscellaneous works.	LS		316,132.76	316,132.76
9.1.13	**Fire Protection and Fire Alarm System** **Design, Supply, install test and commissioning of complete Fire Fighting/Fire Suppression/Fire Alarm system deemed necessary for the purpose.**				
9.1.13.1	Fire detection and alarm System	LS		2,463,694.54	2,463,694.54
9.1.13.2	Internal fire protection system for buildings where required	LS		13,349,792.68	13,349,792.68
9.1.13.3	External fire fighting system.	LS		4,639,878.27	4,639,878.27
9.1.14	**Tanker Filling Station**				
9.1.14.1	Install test and commission of Double arm tanker filling points including supply of all necessary mechanical and miscellaneous works as required to complete installation.	NO	5	184,866.51	924,332.55
	Carried Forward to Collection				51,968,941.44

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.1.15	**Chlorination System**				
	Design, install test and commissioning of Chlorination system including and not limited to the items listed below including all the works required for complete installation.				
9.1.15.1	Chlorination equipment including chlorinator ,ejectors, variable area flow meter, gas leak detection equipment, ventilation, emergency breathing apparatus, chlorine scrubber units, dosing pumps, all instrumentation and required storage.	LS		962,629.87	962,629.87
9.1.15.2	Motive water pumps	LS		19,252.60	19,252.60
9.1.15.3	Gas Chlorine system to include injection and PE 80 OD 90 PN16 dosing pipe lines and sampling pipes	LS		937,364.83	937,364.83
9.1.15.4	Safety showers and eye wash	LS		7,151.61	7,151.61
9.1.16	**Lifting Equipment**				
	Supply, install test and commissioning of lifting equipment at following locations including all the works required for complete installation.				
9.1.16.1	Main Pump Station - Electrically operated Over Head Travelling Gantry crane SWL 20T	LS		1,056,494.28	1,056,494.28
9.1.16.2	Utility Pump Station - Mono Rail Crane, Capacity 3Ton	LS		196,203.79	196,203.79
9.1.16.3	Chlorination Building - Mono Rail Crane, Capacity 3Ton	LS		336,120.92	336,120.92
9.1.16.4	Workshop Building Mono Rail Crane, Capacity 3Ton	LS		224,187.22	224,187.22
9.1.16.5	Auxiliary Pump Station - 10 Ton Electrically operated outdoor Overhead travelling crane.	LS		760,349.68	760,349.68
9.1.16.6	Tanker Filling Pump Station - 1.5 Ton Electrically operated outdoor Overhead travelling crane.	LS		96,103.08	96,103.08
9.1.16.7	Land and Under Floor Drainage Lift Station - 500 kg Portable Davit Crane and socket	LS		39,240.76	39,240.76
9.1.17	**Heating, Ventilation and Air Conditioning**				
	Supply, install test and commissioning of suitable HVAC system/units for following locations including all the works required for complete installation.				
9.1.17.1	Main Pump Station/ Control Building	LS		26,326,535.87	26,326,535.87
9.1.17.2	Auxiliary Pumping Station	LS		2,561,758.97	2,561,758.97
9.1.17.3	Tanker Filling Pump Station	LS		457,824.85	457,824.85
9.1.17.4	Utility Pump Station (Fire/Potable/Irrigation)	LS		862,789.79	862,789.79
9.1.17.5	Chlorination Building	LS		33,932.70	33,932.70
	Carried Forward to Collection				34,877,940.82

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	Air Conditioning cont'd				
9.1.17.6	Air Compressor Building	LS		1,035,802.54	1,035,802.54
9.1.17.7	Water Testing Facility Building	LS		716,308.55	716,308.55
9.1.17.8	MV and Generator Building	LS		4,526,519.13	4,526,519.13
9.1.17.9	Maintenance workshop Building	LS		1,136,539.65	1,136,539.65
9.1.17.10	Main Guard House Building	LS		346,348.49	346,348.49
9.1.17.11	Tanker Filling Station Guard House (2 nr)	LS		55,973.25	55,973.25
9.1.17.12	Remote Generator Building	LS		387,306.61	387,306.61
9.1.17.13	Remote Substation Building (2 Nr)	LS		1,685,763.21	1,685,763.21
9.1.17.14	Remote Substation Building at Reservoirs (2 Nr)	LS		1,873,533.59	1,873,533.59
9.1.17.15	Water Quality Monitoring Building (4 nr)	LS		174,532.66	174,532.66
9.1.17.16	KIOSK Buildings total 7 NO at Scour drain down valve, Surge Vessel and Inlet Chamber locations.	LS		137,361.70	137,361.70
9.1.17.17	Cable Gallery	LS			Included
9.1.18	**Internal Plumbing**				
	Supply, install test and commissioning of plumbing works (Potable water/Hot water/sewage/drainage) for following locations including all the works required for complete installation.				
9.1.18.1	Main Pump Station/ Control Building	LS		6,337,014.84	6,337,014.84
9.1.18.2	Auxiliary Pumping Station	LS		78,881.28	78,881.28
9.1.18.3	Tanker Filling Pump Station	LS		174,984.37	174,984.37
9.1.18.4	Utility Pump Station (Fire/Potable/Irrigation)	LS		145,785.66	145,785.66
9.1.18.5	Chlorination Building	LS		480,595.37	480,595.37
9.1.18.6	Air Compressor Building	LS		200,649.16	200,649.16
9.1.18.7	Water Testing Facility Building	LS		204,646.79	204,646.79
9.1.18.8	MV and Generator Building	LS		724,354.99	724,354.99
9.1.18.9	Maintenance workshop Building	LS		493,483.73	493,483.73
9.1.18.10	Main Guard House Building	LS		152,508.07	152,508.07
9.1.18.11	Tanker Filling Station Guard House (2 nr)	LS		122,861.63	122,861.63
9.1.18.12	Water Quality Monitoring Building (4 nr)	LS		250,733.11	250,733.11
	Carried Forward to Collection				21,442,488.38

CONSOLIDATED CONTRACTORS GROUP S.A.L (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.1.19	**Chilled water pipes** **Supply, install test and commissioning of chilled water pipe network and equipment for following locations including all the works required for complete installation.**				
9.1.19.1	Main Pump Station including control and admin building and pump hall.	LS		8,240,752.95	8,240,752.95
	Carried Forward to Collection				8,240,752.95

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2	**Electrical**				
9.2.1	**Cabling** **Supply install test and commissioning of all power cables, the works shall include excavation and earthworks, cable tiles, warning tapes, cable ducts if not measured elsewhere, cable trays, draw pits where required and cable termination, penetration of structures/buildings.** **Note - Tenderers shall provide the unit rates in addition to the Lump Sum amount**				
9.2.1.1	MV (11 kV) Cables from site boundary to switchgear, directly buried and ducts to be provided at road crossing locations and where required.	LS		1,011,467.25	1,011,467.25
9.2.1.2	MV (11 kV) Cables from switchgear to Transformers, directly buried and ducts to be provided at road crossing locations and where required.	LS		2,101,202.57	2,101,202.57
9.2.1.3	LV (415 V) Cable network	LS		3,293,026.13	3,293,026.13
9.2.1.4	From MCC to all equipment and distribution board locations (Power Distribution network) (415 V)	LS		326,700.29	326,700.29
9.2.1.5	3.3 kV cabling	LS		1,071,769.89	1,071,769.89
9.2.1.6	Earthing System	LS		1,723,314.37	1,723,314.37
9.2.2	**Switchgear** **Install test and commission the following Switchgears/Panels including termination of incoming cable, Switch boards, all metering and all other works required for a complete installation**				
9.2.2.1	Medium Voltage Switchgear Panel R1-MVSG-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 5No. 400 A - Outgoing Ways: 8No. - Busbar Couplers: 2 No.	NO	1	681,401.51	681,401.51
9.2.2.2	Medium Voltage Switchgear Panel R1-MVSG-02 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 5 No. 400 A - Outgoing Ways: 7 No. - Busbar Couplers: 2 No.	NO	1	680,471.83	680,471.83
9.2.2.3	Medium Voltage Generator Synchronization Panel BB-R1-GEN-01 - Voltage: 11 kV - Busbar Rating: 1200 A - Incomers: 3No. 400 A - Outgoing Ways: 4No. 400 A - Busbar Coupler: 1 No.	NO	1	690,078.56	690,078.56
	Carried Forward to Collection				11,579,432.40

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.2.4	Medium Voltage Switchgear Panels R1-RS1-MVP-01 and R1-RS2-MVP-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 2No. 400 A - Outgoing Ways: 1No. 400 A	NO	2	93,017.64	186,035.28
9.2.2.5	Medium Voltage Switchgear Panels R1-RS3-MVP-01 and R1-RS4-MVP-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 2No. 400 A - Outgoing Ways: 1No. 400 A	NO	2	93,017.64	186,035.28
9.2.2.6	Low Voltage Switchgear	NO	7	92,940.16	650,581.12
9.2.2.7	1400KW, MV Variable frequency drive unit including 11/3.3kV 2MVA Phase Shift Transformer, Frequency converter with 24 pulse (minimum) rectifier, Harmonic filter unit, IGBT/IGCT inverter and all other ancillary equipment and works required for complete installation	NO	5	219,884.19	1,099,420.95
9.2.2.8	400KW LV Variable frequency drive unit of PWM design including Frequency converter having full wave diode bridge rectifier, DC links, inverters, Harmonic filter units and all other ancillary equipment and works required for complete installation	NO	4	119,027.64	476,110.56
9.2.2.9	Supply and install LV Capacitor Bank	LS		-	Included
	Generators **Install test and commission of following Generator sets including generator controls, changeovers, switchgears and fuel system including all the works required for complete installation.**				
9.2.3	**Main Generator Station**				
9.2.3.1	Medium Voltage Prime-rated Generator Sets R1-MVG-GEN-01A, R1-MVG-GEN-02A and R1-MVG-GEN-03A including generator controls. - Fuel: Diesel - Voltage: 11 kV - Rating: 2.6 MVA	NO	3	1,182,669.84	3,548,009.52
9.2.3.2	Low Voltage Prime-rated Generator Set R1-MVG-GEN-04 including generator controls. - Fuel: Diesel - Voltage: 415 V - Rating: 2 MVA	NO	1	92,404.89	92,404.89
	Carried Forward to Collection				6,238,597.60

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.4	**Remote Substation RS 3&4**				
9.2.4.1	Low Voltage Prime-rated Generator Sets R1-RS3-GEN-02 and R1-RS4-GEN-03 including generator controls. - Fuel: Diesel - Voltage: 415 V - Rating: 1.275 MVA	NO	2	75,360.70	150,721.40
9.2.5	**Remote Generator Station**				
9.2.5.1	Low Voltage Prime-rated Generator Set R1-RG1-GEN-02 including generator controls. - Fuel: Diesel - Voltage: 415 V - Rating: 1 MVA	NO	1	76,910.16	76,910.16
	Carried Forward to Collection				227,631.56

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.6	**Bulk Fuel Tanks and Fuel system**				
	Supply and install test and commission of following Bulk fuel systems including power supply and all the works required for complete installation.				
9.2.6.1	55 m3 capacity Bulk fuel tanks at main bulk fuel storage location, including design and installation all miscellaneous metal works and pipe works.	NO	9	500,103.81	4,500,934.29
9.2.6.2	30 m3 capacity Bulk fuel tank at main bulk fuel storage location, including design and installation all miscellaneous metal works and pipe works.	NO	1	376,097.25	376,097.25
9.2.6.3	42 m3 capacity Bulk fuel tank at remote single bulk fuel storage locations, including design and installation all miscellaneous metal works and pipe works.	NO	2	376,097.25	752,194.50
9.2.6.4	300 gallons capacity fuel day tank including all necessary supply and return fuel pipework at utility pump station.	NO	1	49,602.62	49,602.62
9.2.6.5	200 gallons capacity fuel day tank including all necessary fuel pipework at substation and generator buildings.	NO	7	41,607.36	291,251.52
9.2.6.6	Fuel Pumps for main bulk fuel storage tanks	LS		197,220.81	197,220.81
9.2.6.7	Fuel Pumps for 2 NO single bulk fuel storage tanks	LS		29,761.59	29,761.59
9.2.6.8	Fuel pipes from main bulk fuel tanks to generator day tanks	LS		1,076,482.44	1,076,482.44
9.2.6.9	Fuel pipes from single bulk fuel tanks to generator day tanks	LS		276,156.44	276,156.44
9.2.7	**MCCs**				
	Supply and install test and commission of following MCCs/Control Panels/DBs including all the works required for complete installation.				
9.2.7.1	MCC for main Pump station/ Control room	LS		4,858,921.12	4,858,921.12
9.2.7.2	MCC for Auxiliary Pump station	LS		916,639.55	916,639.55
9.2.7.3	MCC for Tanker Filling Pump station	LS		264,480.81	264,480.81
9.2.7.4	MCC for Utility Control Pump station	LS		249,789.00	249,789.00
9.2.7.5	MCC for Air Compressors	LS		312,444.02	312,444.02
	Carried Forward to Collection				14,151,975.96

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.8	**Control Panels and Distribution Boards** **Supply, install test and commission of following Control Panels/DBs not included elsewhere including all the works required for complete installation.**				
9.2.8.1	Main Pump Station/ Control Building	LS		-	Included
9.2.8.2	Auxiliary Pumping Station	LS		-	Included
9.2.8.3	Tanker Filling Pump Station	LS		-	Included
9.2.8.4	Utility Pump Station (Fire/Potable/Irrigation)	LS		-	Included
9.2.8.5	Chlorination Building	LS		-	Included
9.2.8.6	Air Compressor Building	LS		-	Included
9.2.8.7	Water Testing Facility Building	LS		-	Included
9.2.8.8	MV and Generator Building	LS		-	Included
9.2.8.9	Maintenance workshop Building	LS		-	Included
9.2.8.10	Main Guard House Building	LS		-	Included
9.2.8.11	Tanker Filling Station Guard House (2 nr)	LS		-	Included
9.2.8.12	Remote Generator Building	LS		-	Included
9.2.8.13	Remote Substation Building (2 Nr)	LS		-	Included
9.2.8.14	Remote Substation Building at Reservoirs (2 Nr)	LS		-	Included
9.2.8.15	Water Quality Monitoring Building (4 Nr)	LS		-	Included
9.2.8.16	KIOSK Buildings total 7 NO at Scour drain down valve, Surge Vessel and Inlet Chamber locations.	LS		-	Included
	Carried Forward to Collection				-

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.9	**Small Power & Lighting and Emergency Lighting** **Supply install test and commissioning of small power and lighting cables, fixtures and fittings including all the works required for complete installation. Scope shall include emergency light cabling, battery packs and fixtures and fittings.**				
9.2.9.1	Main Pump Station/ Control Building	LS		2,259,664.55	2,259,664.55
9.2.9.2	Auxiliary Pumping Station	LS		247,945.97	247,945.97
9.2.9.3	Tanker Filling Pump Station	LS		113,234.87	113,234.87
9.2.9.4	Utility Pump Station (Fire/Potable/Irrigation)	LS		109,329.63	109,329.63
9.2.9.5	Chlorination Building	LS		243,762.96	243,762.96
9.2.9.6	Air Compressor Building	LS		208,750.53	208,750.53
9.2.9.7	Water Testing Facility Building	LS		276,849.54	276,849.54
9.2.9.8	MV and Generator Building	LS		467,853.82	467,853.82
9.2.9.9	Maintenance workshop Building	LS		273,578.74	273,578.74
9.2.9.10	Main Guard House Building	LS		134,160.06	134,160.06
9.2.9.11	Tanker Filling Station Guard House (2 nr)	LS		225,355.12	225,355.12
9.2.9.12	Remote Generator Building	LS		96,031.21	96,031.21
9.2.9.13	Remote Substation Building (2 Nr)	LS		228,857.60	228,857.60
9.2.9.14	Remote Substation Building at Reservoirs (2 Nr)	LS		228,973.89	228,973.89
9.2.9.15	Water Quality Monitoring Building (4 Nr)	LS		235,203.68	235,203.68
9.2.9.16	KIOSK Buildings total 7 NO at Scour drain/down valve, Surge Vessel and Inlet Chamber locations.	LS		143,202.78	143,202.78
9.2.9.17	Reservoirs (4 NO)	LS		-	Included
9.2.9.18	Cable Gallery	LS		-	Included
	Carried Forward to Collection				5,492,754.95

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.10	**Street Lighting and Security Lighting** **Supply install test and commissioning of street lighting and security lighting cables, lighting posts, Feeder Pillars, fixtures and fittings including all the works required for complete installation.**				
9.2.10.1	Street Lights	LS		3,336,593.91	3,336,593.91
9.2.10.2	Security Lights	LS		803,574.30	803,574.30
9.2.11	**Telecommunication** **Supply install test and commissioning of Telecommunication system for all buildings including but not limited to the following items and all other ancillary equipment and works required for complete installation.**				
9.2.11.1	Industrial Ethernet Switches	LS		7,139,192.97	7,139,192.97
9.2.11.2	Fiber Optical Patch Panels MMF OM3 1000 Base SX	LS		1,948,052.74	1,948,052.74
9.2.11.3	42 U Racks	LS		906,694.76	906,694.76
9.2.11.4	24 Port UPOE Switches 1440W maximum Output power, 60Watts per port	LS		118,745.91	118,745.91
9.2.11.5	IPoDWDM switches and Amplifiers	LS		136,466.24	136,466.24
9.2.11.6	MPLS PE Switches , IPoDWDM Cards, capable of supporting Network Virtualization	LS		384,057.81	384,057.81
9.2.11.7	Firewalls 10Gbps interfaces , Capable of supporting Virtualized Firewall	LS		642,861.91	642,861.91
9.2.11.8	Aggregation/ Distribution Switches	LS		23,777.36	23,777.36
9.2.11.9	Network Storage Switches Fiber Channel and ISCSI interfaces	LS		3,344,113.07	3,344,113.07
9.2.11.10	Network Management Software,	LS		4,570,168.13	4,570,168.13
9.2.11.11	Fiber Optical Cabling 850nm Wavelength OM3 1000 Base SX protocol 12 cores Pretium 300	LS		48,174.49	48,174.49
9.2.11.12	Multiservice Platform (Dedicated I/O and OPC Servers)	LS		592,865.23	592,865.23
9.2.11.13	Universal Connectivity Server (Shared I/O OPC servers and CCTV Media Services)	LS		17,199.14	17,199.14
9.2.11.14	24 port 1Gbps Access Switches POE, Stackable, Layer 3 capability	LS		2,236,663.06	2,236,663.06
	Carried Forward to Collection				26,249,201.03

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.12	**Lightning Protection System** **Supply install test and commissioning of Lightning Protection System including all the works required for complete installation.**				
9.2.12.1	Reservoirs No 1	LS		502,136.03	502,136.03
9.2.12.2	Reservoirs No 2	LS		502,136.03	502,136.03
9.2.12.3	Reservoirs No 3	LS		502,136.03	502,136.03
9.2.12.4	Reservoirs No 4	LS		502,136.03	502,136.03
9.2.12.5	Main Pump Station/ Control Building	LS		297,921.24	297,921.24
9.2.12.6	Auxiliary Pumping Station	LS		33,071.37	33,071.37
9.2.12.7	Tanker Filling Pump Station	LS		115,244.11	115,244.11
9.2.12.8	Utility Pump Station (Fire/Potable/Irrigation)	LS		38,038.41	38,038.41
9.2.12.9	Chlorination Building	LS		61,390.08	61,390.08
9.2.12.10	Air Compressor Building	LS		64,486.22	64,486.22
9.2.12.11	Water Testing Facility Building	LS		31,648.11	31,648.11
9.2.12.12	MV and Generator Building	LS		127,579.02	127,579.02
9.2.12.13	Maintenance workshop Building	LS		76,141.06	76,141.06
9.2.12.14	Main Guard House Building	LS		33,469.16	33,469.16
9.2.12.15	Tanker Filling Station Guard House (2 nr)	LS		13,945.92	13,945.92
9.2.12.16	Remote Generator Building	LS		40,959.60	40,959.60
9.2.12.17	Remote Substation Building (2 Nr)	LS		82,923.53	82,923.53
9.2.12.18	Remote Substation Building at Reservoirs (2 Nr)	LS		117,216.16	117,216.16
9.2.12.19	Water Quality Monitoring Building (4 Nr)	LS		12,430.99	12,430.99
9.2.12.20	KIOSK Buildings total 7 nr at Scour drain down valve, Surge Vessel and Inlet Chamber locations.	LS		191,021.74	191,021.74
	Carried Forward to Collection				3,346,030.84

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.2.13	**Uninterrupted Power Supply system**				
9.2.13.1	Supply install test and commissioning of UPS system including In rack Ruggedized 6000W Output Power UPS invertor and 2 hour extendable batteries and all other ancillary works required for complete installation.	LS			
9.2.14	**Electrical Vehicle Charging Points**				
9.2.14.1	Supply install test and commissioning of Electrical Vehicle Charging Points including all the works required for complete installation. (2Nr)	LS			Included
	Carried Forward to Collection				-

Deleted

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.3	**Instrumentation**				
9.3.1	**Cabling** **Supply install test and commissioning of all power and Fiber Optic / Data cables for instrumentation , the works shall include excavation and earthworks, cable tiles, warning tapes, cable ducts if not measured elsewhere, cable trays, draw pits where required and cable termination, penetration of structures/buildings.** **Note - Tenderers shall provide the unit rate in addition to the Lump Sum amount**				
9.3.1.1	Fiber Optic cable network (24 core, 50 micro meters 1Gbps 850nm Multi Mode Fiber OM3 specifications with reachability of 1kM with 1000BASE –SX Transceivers)	LS		420,132.33	420,132.33
9.3.1.2	CAT 6A cabling to all field devices	LS		122,859.05	122,859.05
9.3.1.3	Profibus DP cabling to all field instrumentation	LS		540,624.92	540,624.92
9.3.1.4	CCTV/Security system cable network	LS		244,281.33	244,281.33
9.3.1.5	Signal Cables	LS		-	Included
9.3.1.6	RTD Cables	LS		-	Included
9.3.1.7	0-10v and 4-20mA cabling	LS		-	Included
9.3.1.8	Fiber Optic leak Detection Cable	LS		-	Included
9.3.2	**AUTOMATION** **Supply install test and commissioning of complete SCADA/Automation system including and but not limited to the following, all software and hardware and all other works required for complete installation.**				
9.3.2.1	UPS system with 220VAC-240VAC input voltage , 240VAC Output voltage, 6000W Output Power 50Hz UPS invertor and 2 hours extendable batteries as specified.	LS		9,711,091.37	9,711,091.37
9.3.2.2	PLC Power Supply 24 V DC 10Amps	LS		435,049.53	435,049.53
9.3.2.3	PLC Interface Module Industrial Ethernet – Management interface	LS		1,016,897.45	1,016,897.45
9.3.2.4	PLC CPU Performance PN, DP, HART	LS		318,162.98	318,162.98
9.3.2.5	PLC Analog Input Module 8 AI, U, I PT	LS		965,180.30	965,180.30
9.3.2.6	PLC Analog Output Module 8 AO, U, I	LS		1,282,258.64	1,282,258.64
9.3.2.7	Digital Input Module 32 DI 24VDC	LS		450,896.40	450,896.40
9.3.2.8	Digital Output Module 32 DO , 24VDC	LS		450,896.40	450,896.40
	Carried Forward to Collection				15,958,330.70

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
9.3.2.9	Digital Input/output 16 DI 24v DC 16 DO Relay	LS		450,896.40	450,896.40
9.3.2.10	Porifibus DP PA Coupler	LS		756,142.42	756,142.42
9.3.2.11	Pipework PLC (Field)	LS		267,410.73	267,410.73
9.3.2.12	Master Controller PLC	LS		294,850.47	294,850.47
9.3.2.13	SCADA HMI Touch Panel	LS		490,534.71	490,534.71
9.3.2.14	Operator Panel for Motor Control Module	LS		414,666.92	414,666.92
9.3.2.15	Isolation Amplifier for 2 wire Transducer HART	LS		-	Included
9.3.2.16	Module Racks 9 Slots - PLC Chassis Size	LS		111,519.73	111,519.73
	Computer and Peripherals				
9.3.2.17	SCADA HMI OS Servers	LS		4,011,231.27	4,011,231.27
9.3.2.18	LCD Monitors 24 inch Table top	LS		-	Included
9.3.2.19	LCD Touch Monitor 24 inch	LS		-	Included
9.3.2.20	Engineering Workstation	LS		1,329,306.25	1,329,306.25
9.3.2.21	IP Video Wall Controller	LS		-	Included
9.3.2.22	Large Video Wall Panel	LS		880,832.67	880,832.67
9.3.2.23	Telephone Weather Proof VOIP	LS		25,766.32	25,766.32
9.3.2.24	Database Server (Historian)	LS		748,395.05	748,395.05
9.3.2.25	Licensed software	LS		1,126,888.84	1,126,888.84
9.3.3	**Physical Security System**				
	Physical Access Gateway **Supply install test and commissioning of complete site wide security system including all software and hardware and all other works required for complete installation.**				
9.3.3.1	Physical Access Gateway Power Splitter - for Controller (15W) and Door Keep (30W)	LS		1,493,871.47	1,493,871.47
9.3.3.2	CCTV Fixed Dome IP Camera	NO	152	13,444.27	2,043,529.04
9.3.3.3	CCTV PTZ Dome IP Camera	NO	283	31,608.33	8,945,157.39
9.3.3.4	Physical Security - Software and Hardware	LS		128,070.91	128,070.91
9.3.3.5	50 ID Access Cards	LS		154.95	154.95
9.3.3.6	Access Readers	LS		269,918.05	269,918.05
9.3.3.7	Door Keeps	LS		1,464,997.75	1,464,997.75
	Carried Forward to Collection				25,254,141.34

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.3.4	**Lifts/Escalators**				
9.3.4.1	Install, test and commissioning of complete passenger Lift for Main Pump Station/Control Building including all other works required for complete installation.	LS		144,394.49	144,394.49
9.3.5	**Instrumentation and Controls**				
9.3.5.1	Install, test and commissioning of all the Instrumentations and Control equipment listed in Bill No. 7 and supply, install, test and commission of other instrumentations, controls and ancillary items where not listed in the supply bill but required for complete installation. **Supply and install all ancillary items for above Instrumentation and controls required for a complete installation.** **Note - Tenderers shall provide the unit rate in addition to the Lump Sum amount**	LS		9,446,286.58	9,446,286.58
9.3.5.2	Tubing and fittings	LS		111,314.08	111,314.08
9.3.5.3	Erection hardware	LS		73,811.22	73,811.22
9.3.5.4	Cable glands,	LS		133,043.31	133,043.31
9.3.5.5	Cable trays	LS		36,905.60	36,905.60
9.3.5.6	Junction Boxes	LS		47,575.84	47,575.84
	Carried Forward to Collection				9,993,331.12

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.4	**Transformers** **Install test and commissioning of Transformers including all the works required for complete installation.**				
9.4.1	Transformer R1-MVG-TX-20 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	NO	1	23,382.95	23,382.95
9.4.2	Transformers R1-RS1-TX-21 and R1-RS1-TX-22 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 0.5 MVA - Impedance: 4.75%	NO	2	22,453.26	44,906.52
9.4.3	Transformers R1-RS3-TX-23 and R1-RS4-TX-24 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	NO	2	23,382.95	46,765.90
9.4.4	Transformers - Type: Oil Filled - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	NO	5	23,382.95	116,914.75
	Carried Forward to Collection				231,970.12

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT QR**
9.5	**Service Connection Fees**				
9.5.1	Permanent Electrical Power supply connection	LS		7,076,861.93	7,076,861.93
9.5.2	Permanent Telephone and internet connection	LS		1,126,888.84	1,126,888.84
9.5.3	Permanent Water connection	LS			Included
	Carried Forward to Collection				8,203,750.77

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 9 MEICA Works
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A					Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT QR
	BILL NO 9 - MEICA Works				
	COLLECTION				
	Total from page 9/21/1R				5,940,391.78
	Total from page 9/21/2R				5,760,762.20
	Total from page 9/21/3R				51,968,941.44
	Total from page 9/21/4R				34,877,940.82
	Total from page 9/21/5R				21,442,488.38
	Total from page 9/21/6R				8,240,752.95
	Total from page 9/21/7R				11,579,432.40
	Total from page 9/21/8R				6,238,597.60
	Total from page 9/21/9R				227,631.56
	Total from page 9/21/10R				14,151,975.96
	Total from page 9/21/11R				-
	Total from page 9/21/12R				5,492,754.95
	Total from page 9/21/13R				26,249,201.03
	Total from page 9/21/14R				3,346,030.84
	Total from page 9/21/15R				-
	Total from page 9/21/16R				15,958,330.70
	Total from page 9/21/17R				25,254,141.34
	Total from page 9/21/18R				9,993,331.12
	Total from page 9/21/19R				231,970.12
	Total from page 9/21/20R				8,203,750.77
	Carried Forward to General Summary				**255,158,425.96**

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

Bill No. 10
Materials supply – Spare Parts

WATER SECURITY MEGARESERVOIR: PRPS 1

GTC/626C/2014

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
	Supply of Spare Parts **Spare parts, tools and consumable as recommended by the manufacturer to cover two years operations (Detailed Annexure to be provided with the tender)**				
10.1.1	**For following Generators, Switchgears and panels**				
10.1.1.1	3 Nr., 2.6 MVA Medium Voltage Prime-rated Generator Sets R1-MVG-GEN-01A, R1-MVG-GEN-02A and 15-MVG-GEN-03A including generator controls. - Fuel: Diesel - Voltage: 11 kV	LS		2,324.21	2,324.21
10.1.1.2	1 Nr. 2 MVA Low Voltage Prime-rated Generator Set R1-MVG-GEN-04 including generator controls. - Fuel: Diesel - Voltage: 415 V	LS		74,445.10	74,445.10
10.1.1.3	2 Nr., 1.275MVA Low Voltage Prime-rated Generator Sets R1-RS3-GEN-02 and R1-RS4-GEN-03 including generator controls. - Fuel: Diesel - Voltage: 415 V	LS		2,324.21	2,324.21
10.1.1.4	1 Nr. 1 MVA Low Voltage Prime-rated Generator Set R1-RG1-GEN-02 including generator controls. - Fuel: Diesel - Voltage: 415 V	LS		56,414.87	56,414.87
10.1.1.5	Medium Voltage Switchgear Panel R1-MVSG-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 5No. 400 A - Outgoing Ways: 8No. - Busbar Couplers: 2 No.	LS		115,013.10	115,013.10
10.1.1.6	Medium Voltage Switchgear Panel R1-MVSG-02 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 5 No. 400 A - Outgoing Ways: 7 No. - Busbar Couplers: 2 No.	LS		115,013.10	115,013.10
10.1.1.7	Medium Voltage Generator Synchronization Panel BB-R1-GEN-01 - Voltage: 11 kV - Busbar Rating: 1200 A - Incomers: 3No. 400 A - Outgoing Ways: 4No. 400 A - Busbar Coupler: 1 No.	LS		38,384.65	38,384.65

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) / CCC / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.1.1.8	Low Voltage Switchgear Panel R1-MVG-MDB-01 - Voltage: 415 V - Busbar Rating: 2500 A - Incomers: 2No. 2500 A - Outgoing Ways: 16No. Various Ratings	LS		45,145.98	45,145.98
10.1.1.9	Low Voltage Generator Switchgear Panel R1-MVG-GMDB-01 - Voltage: 415 V - Busbar Rating: 3200 A - Incomers: 1No. 3200 A - Outgoing Ways: 4No. 2500 A	LS		45,145.98	45,145.98
10.1.1.10	2 Nr. Medium Voltage Switchgear Panels R1-RS1-MVP-01 and R1-RS2-MVP-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 2No. 400 A - Outgoing Ways: 1No. 400 A	LS		31,172.56	31,172.56
10.1.1.11	2 Nr. Low Voltage Switchgear Panels R1-RS1-MDB-01 and R1-RS2-MDB-01 - Voltage: 415 V - Busbar Rating: 1000 A - Incomers: 2No. - Outgoing Ways: Various	LS		20,354.43	20,354.43
10.1.1.12	2 Nr. Medium Voltage Switchgear Panels R1-RS3-MVP-01 and R1-RS4-MVP-01 - Voltage: 11 kV - Busbar Rating: 800 A - Incomers: 2No. 400 A - Outgoing Ways: 1No. 400 A	LS		31,172.56	31,172.56
10.1.1.13	2 Nr. Low Voltage Switchgear Panels R1-RS3-MDB-01 and R1-RS4-MDB-01 - Voltage: 415 V - Busbar Rating: 2500 A - Incomers: 2No. 2500 A - Outgoing Ways: Various	LS		56,414.87	56,414.87
10.1.1.14	Low Voltage Generator Switchgear Panel R1-RG1-GMDB-01 - Voltage: 415 V - Busbar Rating: 3000 A - Incomers: 1No. 3200 A - Outgoing Ways: 2No. 1200 A	LS		30,271.06	30,271.06

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.1.2	**Supply of additional equipment consist but not limited to following (Detailed Annexure to be provided with the tender)**				
10.1.2.1	VFD 1400 Kw Panel (Assembled and tested at VFD's manufacturer factory)	NO	1	383,142.21	383,142.21
10.1.2.2	VFD 400 Kw Panel (Assembled and tested at VFD's manufacturer factory)	NO	1	202,839.99	202,839.99
10.1.2.3	MCB (2 nr. in each sizes)	LS		11,268.89	11,268.89
10.1.2.4	MCCB (1 nr. in each sizes)	LS		40,568.00	40,568.00
10.1.2.5	Selector Switches (2 nr. in each model)	LS		40,568.00	40,568.00
10.1.2.6	Circuit Breaker Handles (2 nr. in each model)	LS		6,761.34	6,761.34
10.1.2.7	Volt Meter	NO	2	3,162.34	6,324.68
10.1.2.8	Power Monitoring Unit in each type (2 nr. for each)	LS		6,993.76	6,993.76
10.1.2.9	Current Transducers	NO	2	11,501.31	23,002.62
10.1.2.10	Voltage transducers	NO	2	11,501.31	23,002.62
10.1.2.11	Indication Lamp in each type & colour (2 nr. for each type)	LS		2,035.45	2,035.45
10.1.2.12	Timers in each type (2 nr. for each type)	LS		8,120.65	8,120.65
10.1.2.13	Trolley for ACB removable	NO	1	8,346.03	8,346.03
	Subtotal for 10.1				1,426,570.92

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.2	**For Following Pumps.**				
10.2.1	Flood Pumps - Main Pump Station (4 Nr) Electrically driven, vertical Submersible water pumps. Capacity: 242.1 l/s @ 10.5 m Head	LS		367,622.28	367,622.28
10.2.1.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.1.1.1	Impeller	NO	2	-	Included
10.2.1.1.2	Rolling Element Bearing Motor end	NO	2	-	Included
10.2.1.1.3	Rolling Element Bearing Pump end	NO	2	-	Included
10.2.1.1.4	Mechanical seals (pump end)	NO	4	-	Included
10.2.1.1.5	Mechanical seals (Motor end)	NO	4	-	Included
10.2.1.1.6	Set of sealing elements	NO	8	-	Included
10.2.2	Drain Pumps - Main Pump Station (4 Nr) Electrically driven, vertical Submersible water pumps. Capacity: 9.72 l/ Sec @ 16.4 m Head Drive Motor-4.2kW	LS		53,968.04	53,968.04
10.2.2.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.2.1.1	Impeller	NO	2	-	Included
10.2.2.1.2	Rolling Element Bearing Motor end	NO	2	-	Included
10.2.2.1.3	Rolling Element Bearing Pump end	NO	2	-	Included
10.2.2.1.4	Mechanical seals (pump end)	NO	4	-	Included
10.2.2.1.5	Mechanical seals (Motor end)	NO	4	-	Included
10.2.2.1.6	Set of sealing elements	NO	8	-	Included
10.2.3	Recirculation Pumps - Auxiliary Pump Station (4 Nr) Submersible pump, Capacity: 1260 l/sec @ 8.06 m Head	LS		483,713.52	483,713.52
10.2.3.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.3.1.1	Impeller	NO	2	-	Included
10.2.3.1.2	Rolling Element Bearing Motor end	NO	2	-	Included

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.2.3.1.3	Rolling Element Bearing Pump end	NO	2	-	Included
10.2.3.1.4	Mechanical seals (pump end)	NO	4	-	Included
10.2.3.1.5	Mechanical seals (Motor end)	NO	4	-	Included
10.2.3.1.6	Set of sealing elements	NO	8	-	Included
10.2.4	Drain Down Pumps - Auxiliary Pump Station (2 Nr) Electrically driven, Single or Multi Channel Impeller pumps With large through lets and single volute pump casing. Capacity: 900 l/sec @ 10 m Head.	LS		695,432.15	695,432.15
10.2.4.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.4.1.1	Impeller (each)	NO	1	-	Included
10.2.4.1.2	Impeller wear ring(set)	NO	2	-	Included
10.2.4.1.3	Casing wear rings (set)	NO	2	-	Included
10.2.4.1.4	Shaft with key and nut (set)	NO	1	-	Included
10.2.4.1.5	Shaft protection sleeves (set)	NO	2	-	Included
10.2.4.1.6	Pumps bearings & washers (set)	NO	2	-	Included
10.2.4.1.7	Mechanical seals (each)	NO	2	-	Included
10.2.4.1.8	O-rings, V-rings , and gaskets (set)	NO	4	-	Included
10.2.4.1.9	Pump/motor coupling	NO	1	-	Included
10.2.4.1.10	Bearing housing	NO	1	-	Included
10.2.5	Scour Pumps - Auxiliary Pump Station (2 Nr) Electrically driven, Multi Channel Impeller pumps. Capacity: 54 l/ Sec @ 7m Head Drive Motor	LS		35,978.69	35,978.69
10.2.5.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.5.1.1	Impeller (each)	NO	1	-	Included
10.2.5.1.2	Impeller wear ring(set)	NO	2	-	Included
10.2.5.1.3	Casing wear rings (set)	NO	2	-	Included
10.2.5.1.4	Shaft with key and nut (set)	NO	1	-	Included
10.2.5.1.5	Shaft protection sleeves (set)	NO	2	-	Included

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.2.5.1.6	Pumps bearings & washers (set)	NO	2	-	Included
10.2.5.1.7	Mechanical seals (each)	NO	2	-	Included
10.2.5.1.8	O-rings, V-rings , and gaskets (set)	NO	4	-	Included
10.2.5.1.9	Pump/motor coupling	NO	1	-	Included
10.2.5.1.10	Bearing housing	NO	1	-	Included
10.2.6	Drain Pumps - Auxiliary Pump Station (2 Nr) Electrically driven, Vortex Impeller type Submersible water pumps. Capacity: 10 l/ Sec @ 11.7 m Head Drive Motor- 3.1kW	LS		27,983.43	27,983.43
10.2.6.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.6.1.1	Impeller	NO	1	-	Included
10.2.6.1.2	Rolling Element Bearing Motor end	NO	1	-	Included
10.2.6.1.3	Rolling Element Bearing Pump end	NO	1	-	Included
10.2.6.1.4	Mechanical seals (pump end)	NO	2	-	Included
10.2.6.1.5	Mechanical seals (Motor end)	NO	2	-	Included
10.2.6.1.6	Set of sealing elements	NO	4	-	Included
10.2.7	Main Pump - TFS Pump Station (4 Nr) Submersible pump. Capacity: 100 l / Sec @ 9.96 m Head	LS		144,914.17	144,914.17
10.2.7.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.7.1.1	Impeller	NO	2	-	Included
10.2.7.1.2	Rolling Element Bearing Motor end	NO	2	-	Included
10.2.7.1.3	Rolling Element Bearing Pump end	NO	2	-	Included
10.2.7.1.4	Mechanical seals (pump end)	NO	4	-	Included
10.2.7.1.5	Mechanical seals (Motor end)	NO	4	-	Included
10.2.7.1.6	Set of sealing elements	NO	8	-	Included

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) | TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.2.8	Drain Pump - TFS Pump Station (2 Nr) Electrically driven, Submersible water pumps. Capacity: 10 l/ Sec @ 11.7 m Head	LS		27,983.43	27,983.43
10.2.8.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.8.1.1	Impeller	NO	1	-	Included
10.2.8.1.2	Rolling Element Bearing Motor end	NO	1	-	Included
10.2.8.1.3	Rolling Element Bearing Pump end	NO	1	-	Included
10.2.8.1.4	Mechanical seals (pump end)	NO	2	-	Included
10.2.8.1.5	Mechanical seals (Motor end)	NO	2	-	Included
10.2.8.1.6	Set of sealing elements	NO	4	-	Included
10.2.9	Fire Pump Electrically driven, Horizontal pumps as per NFPA requirement.	LS		35,978.69	35,978.69
10.2.9.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.9.1.1	Impeller (each)	NO	1	-	Included
10.2.9.1.2	Impeller wear ring(set)	NO	1	-	Included
10.2.9.1.3	Casing wear rings (set)	NO	1	-	Included
10.2.9.1.4	Shaft with key and nut (set)	NO	1	-	Included
10.2.9.1.5	Shaft protection sleeves (set)	NO	1	-	Included
10.2.9.1.6	Pumps bearings & washers (set)	NO	1	-	Included
10.2.9.1.7	Mechanical seals (each)	NO	1	-	Included
10.2.9.1.8	O-rings, V-rings , and gaskets (set)	NO	4	-	Included
10.2.9.1.9	Pump/motor coupling	NO	1	-	Included
10.2.9.1.10	Bearing housing	NO	1	-	Included
10.2.10	Jockey Pump (2 Nr) Electrical driven pumps as per NFPA requirement.	LS		3,997.63	3,997.63
10.2.11	Potable Water Pumps (2 Nr) Electrical driven Booster pumps. Capacity: 10 l/s @3 bar	LS		27,983.43	27,983.43

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.2.11.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.11.1.1	Impeller (each)	NO	1	-	Included
10.2.11.1.2	Impeller wear ring(set)	NO	2	-	Included
10.2.11.1.3	Casing wear rings (set)	NO	2	-	Included
10.2.11.1.4	Shaft with key and nut (set)	NO	1	-	Included
10.2.11.1.5	Shaft protection sleeves (set)	NO	2	-	Included
10.2.11.1.6	Pumps bearings & washers (set)	NO	2	-	Included
10.2.11.1.7	Mechanical seals (each)	NO	2	-	Included
10.2.11.1.8	O-rings, V-rings , and gaskets (set)	NO	4	-	Included
10.2.11.1.9	Pump/motor coupling	NO	1	-	Included
10.2.11.1.10	Bearing housing	NO	1	-	Included
10.2.12	Irrigation Pumps (2 Nr)	LS		19,988.16	19,988.16
	Electrical driven Booster pumps. Capacity: 2.6 l/s @6.5 bar				
10.2.12.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.12.1.1	Impeller (each)	NO	1	-	Included
10.2.12.1.2	Impeller wear ring(set)	NO	2	-	Included
10.2.12.1.3	Casing wear rings (set)	NO	2	-	Included
10.2.12.1.4	Shaft with key and nut (set)	NO	1	-	Included
10.2.12.1.5	Shaft protection sleeves (set)	NO	2	-	Included
10.2.12.1.6	Pumps bearings & washers (set)	NO	2	-	Included
10.2.12.1.7	Mechanical seals (each)	NO	2	-	Included
10.2.12.1.8	O-rings, V-rings , and gaskets (set)	NO	4	-	Included
10.2.12.1.9	Pump/motor coupling	NO	1	-	Included
10.2.12.1.10	Bearing housing	NO	1	-	Included
10.2.13	Diesel Engine Driven Pump	LS		47,971.59	47,971.59
	Diesel Engine driven, Horizontal pump as per NFPA requirement.				
10.2.13.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.13.1.1	Impeller with integral rings	NO	1	-	Included
10.2.13.1.2	Casing Rings (Sets)	NO	2	-	Included

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.2.13.1.3	Standard Grease lube bearing	NO	1	-	Included
10.2.13.1.4	Outboard bearing	NO	1	-	Included
10.2.13.1.5	Inboard bearing	NO	1	-	Included
10.2.13.1.6	Shaft sleeves	NO	2	-	Included
10.2.13.1.7	Standard packing	NO	2	-	Included
10.2.13.1.8	Mechanical seals (each)	NO	1	-	Included
10.2.13.1.9	Casing Gasket	NO	1	-	Included
10.2.14	Drain Pump - Land and Under Floor Drainage Pump Station (3 Nr)	LS		-	Included
	Electrically driven, Submersible water pumps. Capacity: 9.72 l/ Sec @ 16.4 m Head				
10.2.14.1	Supply of following additional Spare Parts for above Pump in addition to manufacturer recommended spare parts				
10.2.14.1.1	Impeller	NO	1	-	Included
10.2.14.1.2	Rolling Element Bearing Motor end	NO	1	-	Included
10.2.14.1.3	Rolling Element Bearing Pump end	NO	1	-	Included
10.2.14.1.4	Mechanical seals (pump end)	NO	2	-	Included
10.2.14.1.5	Mechanical seals (Motor end)	NO	2	-	Included
10.2.14.1.6	Set of sealing elements	NO	4	-	Included
	Subtotal for 10.2				1,973,515.21

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.3	**Spare parts, tools and consumable as recommended by the manufacturer to cover two years operations (Detailed Annexure to be provided with the tender) For Following**				
10.3.1	1400KW, MV Variable frequency drive unit including 11/3.3kV 3MVA Phase Shift Transformer, Frequency converter with 24 pulse (minimum) rectifier, Harmonic filter unit, IGBT/IGCT inverter and all other ancillary equipment (5 Nr.)	LS		142,058.43	142,058.43
10.3.2	400KW LV Variable frequency drive unit of PWM design including Frequency converter having full wave diode bridge rectifier, DC links, inverters, Harmonic filter units and all other ancillary equipment and works required for complete installation (4 Nr.)	LS		83,446.12	83,446.12
10.3.3	Passenger / Goods Lift.	LS		23,985.79	23,985.79
10.3.4	5 nr. Air Compressors - Oil Free Rotary Screw type, Delivery Capacity -10.61 m³/ min, Nominal Pressure -10 bar, Drive Motor- 75kW, complete with 3 nr. Air receivers.	LS		23,985.79	23,985.79
10.3.5	Fire detection and alarm system	LS		54,323.08	54,323.08
10.3.6	Fire protection system	LS		119,928.97	119,928.97
10.3.7	Complete chlorination system including pumps	LS		179,893.46	179,893.46
10.3.8	Low voltage MCCs	LS		157,996.86	157,996.86
10.3.9	Control Panels and distribution boards	LS			
10.3.10	CCTV and Access control system	LS		383,374.63	383,374.63
10.3.11	Street lighting and security lighting	LS		180,534.64	180,534.64
10.3.12	FM200 Fire Suppression system (Electrical & Mechanical	LS		-	Included
10.3.13	Internal fire protection system	LS		499,704.05	499,704.05
10.3.14	UPS and emergency power lighting	LS		36,292.87	36,292.87
10.3.15	Electrically powered six seater passenger vehicles. (3 Nr)	LS		9,994.08	9,994.08
10.3.16	Electrically powered four seater vehicle with cargo bed at the rear. (2 Nr)	LS		9,994.08	9,994.08

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.3.17	Electrically operated Over Head Travelling Gantry crane SWL 20T	LS		-	Included
10.3.18	3 Nr. Mono Rail Cranes, Capacity 3Ton	LS		-	Included
10.3.19	10 Ton Electrically operated outdoor Overhead travelling crane.	LS		-	Included
10.3.20	1.5 Ton Electrically operated outdoor Overhead travelling crane.	LS		-	Included
10.3.21	HVAC Equipment	LS		-	Included
	Subtotal for 10.3				1,905,512.85

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.4	**Instrumentation and Control equipment**				
	Spare parts, tools and consumables are to be provided as recommended by the manufacturer for the start-up as well as for two years of operation and maintenance				
10.4.1	Instrumentation and Control equipment listed in the Bill No. 7 and other Instrumentation and Control equipment where not listed but required for complete installation.	LS		205,164.20	205,164.20
10.4.2	**Supply of additional equipment consist but not limited to following (Detailed Annexure to be provided with the tender)**				
10.4.2.1	Paperless Recorder (in each model)	NO	2	11,501.31	23,002.62
10.4.2.2	Digital / Analogue Indicator (in each model)	NO	2	8,346.03	16,692.06
10.4.2.3	Pressure Switch (in each type)	NO	2	6,543.00	13,086.00
10.4.2.4	Pump Suction Pressure Gauge (in each type)	NO	8	7,444.51	59,556.08
10.4.2.5	Pump Delivery Pressure Gauge (in each type)	NO	8	7,444.51	59,556.08
10.4.2.6	Pressure Transmitter (in each type)	NO	4	4,289.22	17,156.88
10.4.2.7	Level Transmitter (in each type)	NO	4	4,289.22	17,156.88
10.4.2.8	Level Switch (in each type)	NO	4	4,289.22	17,156.88
10.4.2.9	Signal Splitter relays	NO	10	1,359.31	13,593.10
10.4.2.10	Temperature Transmitter (in each type)	NO	2	4,063.85	8,127.70
10.4.2.11	PLC CPU (in each type)	NO	1	144,023.43	144,023.43
10.4.2.12	PLC Power Supply Unit (in each type)	NO	1	5,190.73	5,190.73
10.4.2.13	I/O Power Supply Unit (in each type)	NO	1	3,072.18	3,072.18
10.4.2.14	D/I Card (10% in each type)	LS		267,776.96	267,776.96
10.4.2.15	D/O Card (10% in each type)	LS		96,129.25	96,129.25
10.4.2.16	A/O Card (10% in each type)	LS		87,474.74	87,474.74
10.4.2.17	A/I Card (10% in each type)	LS		428,245.93	428,245.93
10.4.2.18	Analogue Signal Isolator	NO	4	6,137.32	24,549.28
10.4.2.19	HART communicator	NO	2	33,137.57	66,275.14
10.4.2.20	Control Fuses Various sizes (in each sizes)	NO	10	931.09	9,310.90

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.4.3	All recommended spare parts including Main control PCB cards for UPS	LS		514,332.35	514,332.35
10.4.4	All recommended spare parts including control PCB cards for electric actuator	LS		70,712.27	70,712.27
	Subtotal for 10.4				2,167,341.64

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.5	**Spare parts, tools and consumables are to be provided as recommended by the manufacturer for the start-up as well as for two years of operation and maintenance For Following Transformers**				
10.5.1	1 Nr. Transformer R1-MVG-TX-20 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	LS		13,593.10	13,593.10
10.5.2	2 Nr. Transformers R1-RS1-TX-21 and R1-RS1-TX-22 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 0.5 MVA - Impedance: 4.75%	LS		13,142.34	13,142.34
10.5.3	2 Nr. Transformers R1-RS3-TX-23 and R1-RS4-TX-24 - Type: Dry Type - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	LS		24,861.99	24,861.99
10.5.4	5 Nr. Transformers - Type: Oil Filled - Voltage: 11/0.415 kV - Rating: 1.6 MVA - Impedance: 6%	LS		40,638.43	40,638.43
	Subtotal for 10.5				92,235.86

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.6	**Valves, Actuators and Flow Meters**				
10.6.1	**Supply of manufacturer recommended Spare Parts for the following.**				
10.6.1.1	Quick Closing Valve (DN. 2200, 1600 and 1200)	LS		449,733.64	449,733.64
10.6.1.2	Motorized Butterfly Valve (DN 2200, 800, 600, 250, 200, 150 and 100)	LS		266,002.46	266,002.46
10.6.1.3	BV with extension spindle (DN 2200, 2000, 1600, 1400, 1200, 900, 800, 600, 500, 350, 250, and 150)	LS		177,334.97	177,334.97
10.6.1.4	Motorized Gate Valve (DN 1000, 800, 700, 500, 300, 250, and 200)	LS		193,885.17	193,885.17
10.6.1.5	Axial Spring Loaded NRV (DN 800, 600, 300, 250, 200 and 100)	LS		139,917.13	139,917.13
10.6.1.6	Pressure Sustaining Valve DN 500	LS		16,790.06	16,790.06
10.6.1.7	Flow Control Valve (DN 1600, 1200 and 800)	LS		359,786.91	359,786.91
10.6.1.8	Gate Valve (DN 300, 250, 200, 150, 100 and 80)	LS		29,982.24	29,982.24
10.6.1.9	Air Valve (DN 150 and 80)	LS		3,657.86	3,657.86
10.6.1.10	Swing Check Valve DN 200	LS		1,599.05	1,599.05
10.6.1.11	Flanged Ball Valve DN 100 & DN 80	LS		1,599.05	1,599.05
10.6.1.12	Flanged Solenoid Valve. DN 100	LS		1,998.82	1,998.82
10.6.1.13	Flow Meter (DN 1600, 1200, and 100)	LS		79,952.65	79,952.65
10.6.1.14	Motorized Pillar type Actuators for Butterfly Valves	LS		23,985.79	23,985.79
10.6.1.15	Motorized Pillar type Actuators for Flow Control Valves	LS		39,976.32	39,976.32
	Supply of following Spare Valves, Actuators and Flow meters				
10.6.2	**Quick Closing Valve**				
10.6.2.1	2200 mm dia.	NO	1	1,295,232.89	1,295,232.89
10.6.2.2	1600 mm dia.	NO	1	658,170.19	658,170.19
10.6.2.3	1200 mm dia.	NO	1	376,097.25	376,097.25

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.6.3	**Motorized Butterfly Valve**				
10.6.3.1	2200 mm dia.	NO	1	959,431.77	959,431.77
10.6.3.2	800 mm dia.	NO	1	87,947.91	87,947.91
10.6.3.3	600 mm dia.	NO	1	55,966.85	55,966.85
10.6.3.4	250 mm dia.	NO	1	12,792.42	12,792.42
10.6.3.5	200 mm dia.	NO	1	10,393.84	10,393.84
10.6.3.6	150 mm dia.	NO	1	7,595.50	7,595.50
10.6.3.7	100 mm dia.	NO	1	3,597.87	3,597.87
10.6.4	**BV with extension spindle**				
10.6.4.1	2200 mm dia.	NO	1	879,479.12	879,479.12
10.6.4.2	2000 mm dia.	NO	1	719,573.83	719,573.83
10.6.4.3	1600 mm dia.	NO	2	279,834.27	559,668.54
10.6.4.4	1400 mm dia.	NO	1	199,881.62	199,881.62
10.6.4.5	1200 mm dia.	NO	3	127,924.24	383,772.72
10.6.4.6	900 mm dia.	NO	1	103,938.44	103,938.44
10.6.4.7	800 mm dia.	NO	2	75,955.01	151,910.02
10.6.4.8	600 mm dia.	NO	1	43,973.96	43,973.96
10.6.4.9	500 mm dia.	NO	1	35,978.69	35,978.69
10.6.4.10	350 mm dia.	NO	1	11,193.37	11,193.37
10.6.4.11	250 mm dia.	NO	1	7,995.26	7,995.26
10.6.4.12	150 mm dia.	NO	1	3,597.87	3,597.87

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.6.5	**Motorized Gate Valve**				
10.6.5.1	1000 mm dia.	NO	1	131,921.87	131,921.87
10.6.5.2	800 mm dia.	NO	1	99,940.81	99,940.81
10.6.5.3	700 mm dia.	NO	1	79,952.65	79,952.65
10.6.5.4	500 mm dia.	NO	1	47,971.59	47,971.59
10.6.5.5	300 mm dia.	NO	1	13,991.71	13,991.71
10.6.5.6	250 mm dia.	NO	1	12,792.42	12,792.42
10.6.5.7	200 mm dia.	NO	1	10,393.84	10,393.84
10.6.6	**Axial Spring Loaded NRV**				
10.6.6.1	800 mm dia.	NO	1	87,947.91	87,947.91
10.6.6.2	600 mm dia.	NO	1	55,966.85	55,966.85
10.6.6.3	300 mm dia.	NO	1	15,990.53	15,990.53
10.6.6.4	250 mm dia.	NO	1	13,991.71	13,991.71
10.6.6.5	200 mm dia.	NO	1	11,992.90	11,992.90
10.6.6.6	100 mm dia.	NO	1	7,995.26	7,995.26
10.6.7	**Pressure Sustaining Valve**				
10.6.7.1	500 mm dia.	NO	1	79,952.65	79,952.65
10.6.8	**Flow Control Valve**				
10.6.8.1	1600 mm dia.	NO	1	359,786.91	359,786.91
10.6.8.2	1200 mm dia.	NO	1	299,822.43	299,822.43
10.6.8.3	800 mm dia.	NO	1	179,893.46	179,893.46

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.6.9	**Gate Valve**				
10.6.9.1	300 mm dia.	NO	1	9,994.08	9,994.08
10.6.9.2	250 mm dia.	NO	1	8,794.79	8,794.79
10.6.9.3	200 mm dia.	NO	4	6,396.21	25,584.84
10.6.9.4	150 mm dia.	NO	1	3,797.75	3,797.75
10.6.9.5	100 mm dia.	NO	2	1,599.05	3,198.10
10.6.9.6	80 mm dia.	NO	2	799.53	1,599.06
10.6.10	**Air Valve**				
10.6.10.1	150 mm dia.	NO	1	3,797.75	3,797.75
10.6.10.2	80 mm dia.	NO	1	2,998.22	2,998.22
10.6.11	**Swing Check Valve**				
10.6.11.1	200 mm dia.	NO	1	7,195.74	7,195.74
10.6.12	**Flanged Ball Valve**				
10.6.12.1	100 mm dia.	NO	1	1,199.29	1,199.29
10.6.12.2	80 mm dia.	NO	1	799.53	799.53
10.6.13	**Flanged Solenoid Valve.**				
10.6.13.1	100 mm dia.	NO	1	3,997.63	3,997.63
10.6.14	**Flow Meter**				
10.6.14.1	1600 mm dia.	NO	1	191,886.35	191,886.35
10.6.14.2	1200 mm dia.	NO	1	103,938.44	103,938.44
10.6.14.3	100 mm dia.	NO	1	7,995.26	7,995.26

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.6.15	**Motorized Pillar type Actuators for following valves**				
10.6.15.1	2200 mm dia.	NO	1	111,933.71	111,933.71
10.6.15.2	1600 mm dia.	NO	1	59,964.49	59,964.49
10.6.15.3	1200 mm dia.	NO	1	47,971.59	47,971.59
10.6.15.4	900 mm dia.	NO	1	31,981.06	31,981.06
10.6.15.5	800 mm dia.	NO	1	31,981.06	31,981.06
10.6.15.6	600 mm dia.	NO	1	23,985.79	23,985.79
10.6.15.7	250 mm dia.	NO	1	11,992.90	11,992.90
10.6.15.8	150 mm dia.	NO	1	7,995.26	7,995.26
	Subtotal for 10.6				10,569,280.24

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCG) / TEYSEER CONTRACTING CO. WLL - JV

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.7.1	**Lubricants**				
10.7.1.1	Lubricants for two year running period for all equipment	LS		599,644.85	599,644.85
	Subtotal for 10.7				599,644.85

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**RATE QR**	**AMOUNT (QR)**
10.8	General - Spare Parts, tools and consumable to cover 2 years operation of all the pumps, valves etc. Contractor to provide a detailed list below.	IM		3,397,987.51	3,397,987.51
	Subtotal for 10.8				3,397,987.51

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES			BILL NO: 10 Materials - Spares
GTC/626C/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A		Supply of Spare Parts for MEICA Equipment			Rev 03
ITEM REF.	ITEM DESCRIPTION	UNIT	QTY.	RATE QR	AMOUNT (QR)
	BILL NO. 10 - COLLECTION				
	Subtotal for 10.1				1,426,570.92
	Subtotal for 10.2				1,973,515.21
	Subtotal for 10.3				1,905,512.85
	Subtotal for 10.4				2,167,341.64
	Subtotal for 10.5				92,235.86
	Subtotal for 10.6				10,569,280.24
	Subtotal for 10.7				599,644.85
	Subtotal for 10.8				3,397,987.51
	Carried Forward to General Summary				**22,132,089.08**

PROJECT: WATER SECURITY MEGA RESERVOIR		BILL OF QUANTITIES	General Summary
GTC/626A/2014, Construction of Mega Reservoir PRPS at Umm Birka - Package A			Rev 03
	ITEM DESCRIPTION		AMOUNT QR
	GENERAL SUMMARY- PRPS 1 COLLECTION		
	Total for Bill 1		11,944,925.71
	Total for Bill 2		Deleted
	Total for Bill 3		Deleted
	Total for Bill 4		Deleted
	Total for Bill 5		73,159,414.54
	Total for Bill 6		216,045,000.68
	Total for Bill 7		3,383,668.44
	Total for Bill 8		1,576,910,818.60
	Total for Bill 9		255,158,425.96
	Total for Bill 10		22,132,089.08
	Total Project Cost		**2,158,734,343.01**

SECTION 21: PRE AWARD CORRESPONDENCE

Reference	Subject	Date
TA/DO/TW/14/1651	Clarification No.01	15.10.2014
4857/MY/L320	Clarification No.01	19.10.2014
TA/DO/TW/14/1914	Negotiation Meeting	19.11.2014
CCC/32.00/L-1080	Negotiation Meeting	19.11.2014
4857/MY/L394	Post Tender Negotiation Meeting - Clarification	30.11.2014
TA/DO/TW/15/077	Negotiation Meeting	19.01.2015
CCC/32.00/L-1147	Negotiation Meeting	19.01.2015
TA/DO/FX/TW/15/126	Extension Of Validity For Tender &Tender Bond	22.01.2015
4857/AH/L032	Post Tender Negotiation Meeting Dated 21st jan'15	29.01.2015
4857/MY/L023	Extension Of Validity For Tender &Tender Bond	03.02.2015
TA/DO/TW/15/224	Negotiation Meeting	09.02.2015
CCC/30.02/M-1162	Negotiation Meeting	09.02.2015
4857/MY/L054	Post Meeting Presentation	15.02.2015

KAHRAMAA كهرماء

المؤسسة العامة القطرية للكهرباء والماء
Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS الشؤون الفنية

TELEFAX MESSAGE	DATE: 15/10/2014	TOTAL PAGES: 2+1
To: M/s. Teyseer Contracting & CCC (JV)		Fax:
For the Attention of: The General Manager		Our Ref.: TA/DO/TW/14/ 1651

Project : Constructions of Mega Reservoirs PRPs (Package A,B,C,D&E) - GTC 626/2014

SUBJECT : CLARIFICATION NO.01

In order to complete the Technical Evaluation process for the above mentioned project, you are requested to submit the following documents to the undersigned office, at Kahramaa Main Building, Floor #19, to Water Projects Department, by Sunday, 19.10.2014, 12:00 Noon:

1. No deviations or exceptions from technical submission offer shall be accepted. all the deviations ,qualifications and departures from the tender specifications and requirements whether mentioned in the data sheets, **Appendix-K,** covering letter etc, **must be withdrawn**. (It was your responsibility to estimate and make your assessments for the power supply connections fees, and you should confirm that the power supply fees is already included in your commercial offer.)
2. Please confirm that all manufacture suppliers must be as per Mega Vender List.
3. Clarification on non – submitted QI requirements for project quality plan, Project Inspection and test plan (ITP) and list of test instruments with complete calibration details.
4. Your proposal manufacture No 01, 03 & 04 for Adaptor and Dismantle Joint are not approved , nominate alternative as Mega Vender List.
5. Reference to your bid submitted for the subject Tender and further to our Circular No. 1 regarding Kahramaa requirements for the JV agreements, you are requested to submit new (revised) JV agreement that satisfy the requirements stated in Circular 1 Cleary and accurately, otherwise, all bids with JV agreement did not comply with Kahramaa requirements will be Technically disqualified:

   Accurate attention and consideration shall be given to the following terms which was also clearly presented in Circular No. 1.

   The JV Agreement Terms and conditions shall include:

   A. For incorporated JV, The terms of the submitted JV agreement shall be the basis for the JV Company terms that shall be registered after award and before signing the contract.

Tele: (974) 4484 5333 - Fax: (974) 44845391
P O BOX 41, DOHA - QATAR.

تلفون : 44845333 (974) – فاكس : 44845391
ص.ب : 41 الدوحة – قطر

KAHRAMAA المؤسسة العامة القطرية للكهرباء والماء
Qatar General Electricity & Water Corporation

B. For unincorporated JV, Submit Final and binding JV agreement. pre-bid JV agreements will be rejected

C. Assign One representative(leader, manger, director, CEO, chairman...etc whatever you name), that shall be fully authorized and represent the JV entity and who shall sign the contract with Kahramaa for the JV.

D. If any party assigned as JV leader that shall means the leader party will be the JV representative and it shall authorized by all other parties to represent the JV in all aspects.

E. In case of award , NO Terminations right shall be given to any party of the JV during the period starting from award till issuing Final completion Certificate by Kahramaa.

F. any management arrangement under this representative can be accepted , any committee assigned to manage the JV without definite and clear decision making arrangement will be rejected

G. The parties of the JV shall be Jointly and Severally liable toward Kahramaa for all obligations related to the Contract without any exceptions whatsoever. (the liability within and toward the parities themselves can be according to parties requirements).

H. Delete any statement or any Conflict that affects or limits the above Terms and conditions. Conflicts, unclear or limiting statements in the JV agreements shall lead to Bid disqualifications.

Note: ***Please sign and stamp the attached acknowledgement form and return back by fax to the undersigned within two working days.***

Regards,

ENG. AHMED NASSER AL-NASR
DIRECTOR, TECHNICAL AFFAIRS
CC: WP, GTC, TW, File

Tele: (974) 4484 5333 - Fax: (974) 44845391
P O BOX 41, DOHA - QATAR.
تليفون : (974)44845333 – فاكس : 44845391
ص.ب : 41 الدوحة – قطر

KAHRAMAA المؤسسة العامة القطرية للكهرباء والماء
Qatar General Electricity & Water Corporation

Tender No. GTC626/2014

TENDER No. GTC/626/2014

Construction of Mega Reservoirs PRPs Packages A,B,C,D&E

Technical Clarification N°. 01 dated 15/10/2014

The Bidder shall reply to the attached queries with the required clarifications, which shall constitute an integrated part of his Tender Technical/Commercial Offer.

The Bidder shall submit one signed copy of this cover page with his Clarifications.

ACKNOWLEDEGEMENT

The undersigned bidder hereby acknowledges receipt of the queries for the required clarifications.

Signed : _____

Company Name : _____

Date : _____

Company Stamp :

Table of Contents

1. Cover Letter

2. Tenderer's Responses

3. Attachment 1 – Quality Management Procedure_ Inspection & Testing

4. Attachment 2 – Revised Joint Venture Agreement

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: 4857/MY/L320

Date: 19 October 2014

To: **Water Projects Department**
Kahramaa Main Building, Floor #19
Doha – Qatar

Att.: **Eng. Ahmed Nasser Al-Nasr**
Director, Technical Affairs

Project: **Construction of Mega Reservoirs PRPSs (Packages A,B,C,D&E)**
GTC 626/2014

Subject: **Clarification No. 1**

Dear Sir,

Reference is made to your letter ref. TA/DO/TW/14/1651, dated 15/10/2014. Please find enclosed our responses to Tender Clarification No. 1.

We remain at your disposal should you require any further discussion or clarification.

Yours faithfully,

Nazih Abdul Kader
Executive Vice President Operations

TENDER NO. GTC 626/2014

CONSTRUCTION OF MEGA RESERVOIR PRPSs (PACKAGES A,B,C,D&E)

Clarification No. 01

#	Clarification (15 October 2014)	Tenderer's Response (19 October 2014)
1	No deviations or exceptions from technical submission offer shall be accepted. All the deviations, qualifications and departures from the tender specifications and requirements whether mentioned in the data sheets, **Appendix-K**, covering letter etc, **must be withdrawn**. (It was your responsibility to estimate and make your assessments for the power supply connections fees, and you should confirm that the power supply fees is already included in your commercial offer).	Tenderer confirms that any deviations, qualifications and departures from the tender specifications and requirements are withdrawn and confirms that the power supply fees are included in the submitted commercial offer.
2	Please confirm that all manufacture suppliers must be as per Mega Vendor List.	Tenderer confirms that all manufacture suppliers must be as per Mega Vendor List.
3	Clarification of non-submitted QI requirements for project quality plan, Project Inspection and test plan (ITP) and list of test instruments with complete calibration details.	Tenderer refers to **Attachment 1** for the relevant Quality Management Procedure for Inspection, Measuring & Test Equipment and for samples of Inspection and Test Plans.
4	Your proposal manufacture No. 01, 03 & 04 for Adaptor and Dismantle Joint are not approved, nominate alternative as Mega Vendor List.	Tenderer clarifies that the proposed suppliers for Adaptor & Dismantling Joints, No. 01-Klamflex Pipe Couplings (Agent; Dutco Tennant) and No. 03 & 04- Talbot/UPE (Agent: Ahmad Ul Uthman and Brothers), are in line with Mega Vendor list issued in Tender Circular No.13.
5	Reference to your bid submitted for the subject Tender and further to our Circular No. 1 regarding Kahramaa requirements for the JV agreements, you are requested to submit new (revised) JV agreement that satisfy the requirements stated in Circular 1 Cleary and accurately, otherwise, all bids with JV agreement did not comply with Karamaa requirements will be Technically disqualified. Accurate attention and consideration shall be given to the following terms which was also clearly presented in Circular No. 1. <u>The JV Agreement Terms and conditions shall include:</u> A. For incorporated JV, The terms of the submitted JV agreement shall be the basis for the JV Company terms that shall be registered after award and before signing the contract. B. For unincorporated JV, Submit Final and binding JV agreement. pre-bid JV agreements will be rejected.	Tenderer refers to **Attachment 2** for the revised Joint Venture Agreement.

#	Clarification (15 October 2014)	Tenderer's Response (19 October 2014)
	C. Assign One representative (leader, manger, director, CEO, chairman ... etc whatever you name), that shall be fully authorized and represent the JV entity and who shall sign the contract with Kahramaa for the JV. D. If any party assigned as JV leader that shall means the leader party will be the JV representative and it shall authorized by all other parties to represent the JV in all aspects. E. In case of award, NO Terminations right shall be given to any party of the JV during the period starting from award till issuing Final completion Certificate by Kahramaa. F. Any management arrangement under this representative can be accepted, any committee assigned to manage the JV without definite and clear decision making arrangement will be rejected. G. The parties of the JV shall be Jointly and Severally liable toward Kahramaa for all obligations related to the Contract without any exceptions whatsoever. (the liability within and toward the parities themselves can be according to parties requirements.) H. Delete any statement or any Conflict that affects or limits the above Terms and conditions. Conflicts, unclear or limiting statements in the JV agreements shall lead to Bid disqualifications.	

Attachment 1 –
Quality Management Procedure_
Inspection & Testing

This document is categorized as a "GEN" document and should not be used directly. It's provided by CS&QM Department and is to be modified to suit Project specific requirements. Modification may entail, inclusion of Project specific requirements (often prescribed in Contract documents), Customer preferences (when expressed), logos, organizational names and job titles that are unique to the Project concerned.

REV.	DATE	DESCRIPTION	PREP. BY	REV. BY	APPR. BY
B					

CLIENT	CONTRACTOR
	CONSOLIDATED CONTRACTORS COMPANY

PROJECT TITLE

DOCUMENT TITLE

QUALITY MANAGEMENT PROCEDURE
INSPECTION, MEASURING & TEST EQUIPMENT

CONTRACT No.	DOCUMENT No.	REV. No.	PAGE No.
	QMP-GEN-010	B	1 of 12

TABLE OF CONTENTS

1. SCOPE 3

2. PURPOSE 3

3. REFERENCES 3

4. ABBREVIATIONS / DEFINITIONS 3

5. RESPONSIBILITIES 3
   5.1. CCC PERSONNEL 3
   5.2. QUALITY CONTROL DEPARTMENT 4
   5.3. PMV 4

6. PROCEDURE 4
   6.1. RECEIPT OF IM&TE 4
   6.2. HANDLING OF IM&TE 4

7. ATTACHMENTS 5

1. SCOPE

1.1. This procedure defines the responsibilities and the system to be applied for controlling Inspection, Measuring and Test Equipment used by CCC Project personnel.

1.2. It lists all inspection, measurement and testing equipment that are subject to control and all applicable information regarding calibration or functional tests, calibration method statements and intervals.

2. PURPOSE

2.1. The purpose of this procedure is to ensure that all Inspection, Measuring and Test Equipment used during construction is checked at regular intervals and is functioning correctly for the activity to be performed and documented as such.

2.2. As part of the CCC quality management system, this procedure addresses the quality system requirements of ISO 9001:2008, Section 7.6.

3. REFERENCES

3.1.	ISO 9001:2008	Quality Management Systems – Requirement
3.2.	PQP-GEN-001	Project Quality Plan
3.3.	QMP-GEN-017	Corrective & Preventive Action
3.4.	QCP-GEN-101	Welding Consumables Control
3.5.		Relevant Project Contract Specifications

4. ABBREVIATIONS / DEFINITIONS

4.1.	Project	Project Name
4.2.	COMPANY	Project Owner / Customer
4.3.	CCC	Consolidated Contractors Company
4.4.	IM&TE	Inspection, Measuring and Test Equipment
4.5.	LCMTE	List of Calibrated Measurement and Test Equipment
4.6.	QCD	Quality Control Department
4.7.	PMV	Plant Management Vehicles
4.8.	FT	Functional Testing

5. RESPONSIBILITIES

5.1. CCC PERSONNEL

5.1.1. It is the responsibility of all CCC personnel that receive and operate IM&TE to notify the QC Department of its receipt at site.

5.1.2. All CCC personnel using IM&TE in the field are responsible to ensure that all IM&TE are in good condition and suitably identified with the calibration status in accordance with this procedure. Also, to protect IM&TE from damage and deterioration during handling, maintenance and storage.

5.2. QUALITY CONTROL DEPARTMENT

5.2.1. It is the responsibility of the QC Department to log in the IM&TE on notification of the relevant department, verify its certification and monitor future calibration requirements.

5.2.2. It is the responsibility of the QC Department to hold frequent surveillance audits on site areas that operate IM&TE with respect to the requirements of this procedure.

5.3. PMV

5.3.1. PMV has the responsibility to calibrate the welding machines.

6. PROCEDURE

6.1. RECEIPT OF IM&TE

6.1.1. All IM&TE, whether newly purchased or received from within CCC Group, will be checked for availability of the Calibration Certificate / Certificate of Compliance and/or previous Calibration Records prior to use in the field, for verification and registration purposes. The absence of certification will result in the quarantine of the equipment until certification is supplied or the equipment is re-calibrated and registered.

6.1.2. No item of IM&TE will be issued prior to registration in the List of Calibrated Measurement and Test Equipment (LCMTE) and the assignment of a unique serial number (see FM-010-001).

6.1.3. As individual items of IM&TE are received, along with the required certification, the QC Department will:

- Detail the individual item of IM&TE on the LCMTE.
- Register and archive the Calibration Certificate/Certificate of Compliance and the calibration records (if applicable).
- Record the serial number on the IM&TE.
- Apply valid calibration sticker to items of IM&TE and state re-calibration due date on the sticker.

6.2. HANDLING OF IM&TE

6.2.1. All IM&TE used for the inspection or acceptance of construction work will be assigned, and permanently identified with an individual serial number. These serial numbers will be placed on the equipment by such appropriate means as to produce durable identifications.

6.2.2. Departments using measuring and test equipment are responsible for monitoring calibration due dates and submitting instruments and devices for calibration on time. QCD will notify relevant Departments of IM&TE, which must be removed from use due to expired calibration period.

6.2.3. QC Inspectors and testing personnel will not accept measurement values obtained on measuring and test equipment that have exceeded calibration due dates.

6.2.4. Calibration will be against a certified reference standard or device whose accuracy is:

- Traceable to national or international standards.
- Obtained from an independent reproducible standard derived from accepted values of natural physical constants.
- Otherwise verifiable to an accuracy tolerance smaller than one-half of the smallest measurement increment on the device to be calibrated.
- The basis used for calibration or verification will be recorded.

6.2.5. Calibration intervals will not be longer than as specified in the respective Equipment Calibration Table (see Attachment 1) for each item of inspection, measuring and test equipment.

6.2.6. In-house calibration of IM & TE will be performed against certified reference standards. The certified reference standards will be kept under lock, under the control of the QCD. Calibration records for on-site and off-site calibrations will be held by the QCD.

6.2.7. The welding machines will be calibrated from PMV. In the absence of any specific manufacturers' calibration instructions, calibration will be performed as per Attachment 2 and results will be recorded as per Attachment 4. PMV is responsible for the maintenance of the records.

6.2.8. The QCD will confirm and monitor the calibration status of equipment during in-process examination.

6.2.9. When deficiencies are found in equipment covered by this procedure, the deficient equipment will be immediately tagged as such ("*QC HOLD*") and segregated from the construction work to prevent inadvertent further use of the equipment until repaired and/or re-calibrated.

6.2.10. To the extent possible, previous inspection measurements made with the deficient equipment will be re-checked with calibrated equipment to verify accuracy of previous measurement.

6.2.11. The Quality Manager is responsible for the assessment and selection of external laboratory for the calibration of the instrument. When requested the laboratory will make available all instructions and the calibration certificates will mention procedures used, acceptance criteria, actual measurements, reference standards etc.

7. ATTACHMENTS

7.1.	Attachment 1:		Equipment Calibration Table per Discipline
7.2.	Attachment 2:		Validation – Calibration of Welding Machines
7.3.	Attachment 3:	FM-010-001	List of Calibrated Measurement and Test Equipment (LCMTE)
7.4.	Attachment 4:	FM-010-002	Calibration of SMAW / GTAW Welding Equipment
7.5.	Attachment 5:	FM-010-003	Calibration of SAW / MIG / FCAW Welding Equipment
7.6.	Attachment 6:	FM-010-004	Calibration of Baking / Holding Ovens / Quivers

Note: *Equipment Calibration Table will be revised and controlled during the execution of the Project independently of this procedure.*

Note: *The attached forms are sample forms and can be revised independently of the present procedure as required during Project execution.*

ATTACHMENT No.1

EQUIPMENT CALIBRATION TABLE PER DISCIPLINE

EQUIPMENT CALIBRATION TABLE - MECHANICAL EQUIPMENT		
EQUIPMENT	**CALIBRATION REQUIRED / FUNCTIONAL TEST**	**CALIBRATION PERIOD (MONTHLY)**
Ultrasonic Thickness Gauge	F.T./CAL	Prior to use (*see Note 1)
Ultrasonic Set	F.T./CAL	*See Note.1
MPI Magnet Check	CAL	12
Holiday Detector	F.T.	Prior to use
Densitometer (for radiographic film interpretation	F.T.	Prior to use (*see Note 2)
Radiation Survey Meter	CAL	6
Personal Dosimeter	CAL	12
Tong-tester	CAL	12
Welding Gauge (Cambridge type)	NOT REQUIRED	NOT REQUIRED
Welding Machines	CAL	6 months (*see Note 3)
Welding Rod Ovens	F.T.	6 months (*see Note 3)
Welding Rod Quivers	F.T	6 months (*see Note 3)
Thermocouple for PWHT	NOT REQUIRED	NOT REQUIRED
Thermocouple Recorder for PWHT	CAL	3
High/Low Gauge	NOT REQUIRED	NOT REQUIRED
Digital Thermometer	CAL	12
Dry Film Thickness	CAL	12
Wet Film Thickness	NOT REQUIRED	NOT REQUIRED
Hygro-Thermometer	F.T.	Prior to use
Magnetic Steel Temp. Gauge	N/A**	N/A**

ATTACHMENT No.1

EQUIPMENT CALIBRATION TABLE PER DISCIPLINE

Surface Profile Gauge	F.T.	Prior to use
D.P./R.H. % Calculator	F.T.	Prior to use
Surface Profile Comparator	NOT REQUIRED	NOT REQUIRED
Pressure Gauge	CAL	Once a month (*see § 6.2)
Dead Weight Tester (Budenberg)	CAL	24
Digital Pressure Gauge	CAL	12
Dial Gauge	CAL	12
Torque Meter	F.T	Prior to use (*see Note 4)
Equotip Hardness Tester	F.T	Prior to use
Micrometers	CAL	12
Vernier Caliper	CAL	12
Slip Gauges	CAL	12
Combination Set/Squares	F.T.	Prior to use
Tapes/Rules	NOT REQUIRED	

** For one year from the date of purchase.

Note.1: *Ultrasonic sets are calibrated prior to use for testing purposes, but they require electrical tests monthly to an applicable national standard.*

Note.2: *Refer to external laboratory instructions, calibration certificates, procedures used, acceptance criteria, actual measurements, reference standards, etc. See § 6.2.*

Note.3: *For internal Calibration use FM-010-004 (Attachment 6). Also see QCP-GEN-101 (Welding Consumables Control)*

Note.4: *Torque meters will be tested prior to use against a "Master". The "Master" will be calibrated every 12 months by an external laboratory. The "Master" will be purchased with a valid calibration certificate.*

ATTACHMENT No.1

EQUIPMENT CALIBRATION TABLE PER DISCIPLINE

EQUIPMENT CALIBRATION TABLE - ELECTRICAL / INSTRUMENTATION TESTING EQUIPMENT		
EQUIPMENT	**CALIBRATION REQUIRED / FUNCTIONAL TEST**	**CALIBRATION PERIOD (MONTHLY)**
Loop Tester	CAL	12
Insulation Tester	CAL	12
Meg Ohm Tester	CAL	12
Digital Voltmeter	CAL	12
Thermocouple Potentiometer	CAL	12
D.C. Power Supply	CAL	12
Secondary Injection Set	CAL	12
Digital Ground Resistance Tester	CAL	12
Digital Calibrator	CAL	12
Precision Pneumatic Calibrator	CAL	12
Digital Pressure Calibrator	CAL	12
Clamp-on Meter	CAL	12
Current Injection Filter Unit	CAL	12
Current Generator	CAL	12
V/A Calibrator	CAL	12
Precision Simulator	CAL	12
Digital Manometer	CAL	12
DPI 601/IS	CAL	12
Decade Resistance Box	CAL	12
Diaphragm Test Gauge	CAL	12
Compound Test Gauge	CAL	12
Fluidized Bath with Digital Temperature Controller	CAL	12
DC HV Test Set	CAL	12

ATTACHMENT No.1

EQUIPMENT CALIBRATION TABLE PER DISCIPLINE

Primary Injection Set	CAL	12
Mini Lux	CAL	12
Analog Insulation Tester	CAL	12
Digital Multimeter	CAL	12
High Voltage Insulation Tester	CAL	12

EQUIPMENT CALIBRATION TABLE - CIVIL EQUIPMENT		
EQUIPMENT	**CALIBRATION REQUIRED/FUNCTIONAL TEST**	**CALIBRATION PERIOD (MONTHLY)**
Test Sieves	CAL	12
L.A. Apparatus (CBR Test)	CAL	12
Weighing scales (Mechanical)	CAL	12
Weighing scales (Electronic)	CAL	12
Ovens / Dryers	CAL	12
Density Meters (sand cone)	F.T.	prior to use
Density Meters (nuclear)	F.T. CAL (by Certified Agency)	prior to use 12
Flakiness & Elongation test Sieves	CAL	12
Proctor Measuring Apparatus (Mould)	CAL	12
Plasticity Index Test Apparatus (Atterberg)	CAL	12
Aggregates Density Mould	CAL	12
Sand Density Mould	CAL	12
Speedy Meter Moisture Pressure Tester Apparatus	F.T.	prior to use
Slump Cone	F.T.	prior to use

ATTACHMENT No.1

EQUIPMENT CALIBRATION TABLE PER DISCIPLINE

Concrete Cubes Moulds	F.T.	prior to use
Concrete Cubes Compression Testing Apparatus	CAL.	12
Air Content Testing Apparatus	CAL	12
Concrete Schmidt Test Hammer (Rebound Hammer)	CAL	12
Timers	CAL	12
Volumetric Glassware	F.T	prior to use**
Automatic Levels	CAL	6
Electronic Digital Theodolite	CAL	6
Electronic Distomat (EDM)	CAL	6
Total Stations	CAL	6

**once only, after purchase prior to initial use

ATTACHMENT No.2

VALIDATION – CALIBRATION OF WELDING MACHINE

This validation – calibration scheme will be used in the absence of any specific manufacturer's instructions.

Standard to be used: BS 7570:2000 Validation of Arc Welding equipment.

Grade: Standard

Validation Accuracy Values:

For SMAW, GTAW, SAW, MAG	Current Accuracy	± 10%
For SMAW, GTAW, SAW, MAG	Voltage Accuracy	± 10%
For SAW, MAG	Wire Feed Accuracy	± 10%

Instrumentation Accuracy

Electrical instruments must have accuracies at least 5 times higher than the ones indicated for validation.

Measuring instrumentation to be used

Ammeter, Voltmeter, Stopwatch, Rule.

Variables to be measured and be validated/calibrated.

1) OCV [open circuit voltage]
2) For SMAW, GTAW, MAG take measurements for every 50 Amps starting from 50A up to 250A and validate amps and volts.
3) For SAW take measurements for every 100 Amps starting from 100 A up to 700 A and validate amps and volts.
4) For SAW and MAG validate repeatability of wire feed as above.

Frequency of validation

Once every six (6) months and after repairs.

Records of validation / calibration for each welding machine must be kept indicating Manufacturer, Type and Serial Number.

The suggested calibration forms are FM-010-002 and FM-010-003 (see Attachments 4, 5).

General Note.

The maintenance of the accuracy and the consistency of the performance of the welding equipment is a key component in the final quality of the weld. Based on the above the use of meters and measuring equipment on welding machines that are required to produce welds of high integrities and reliability is strongly recommended.

COMPANY	CONTRACTOR	PROJECT		
	Consolidated Contractors Company			
CONTRACT No.	FORM OWNER	FORM No.	REV.	PAGE No.
	QMP-GEN-010	FM-010-001	B	1 of 1

FORM TITLE

LIST OF CALIBRATED MEASUREMENT AND TEST EQUIPMENT

Serial Number	Manufacturer Serial Number	IM & TE Description	Department	Certificate Number	Date Calibrated	Calibration Due Date	Calibration By	Calibration Procedure	Calibration Interval	Condition

COMPANY	CONTRACTOR Consolidated Contractors Company	PROJECT

CONTRACT No.	FORM OWNER	FORM No.	REV.	PAGE No.
	QMP-GEN-010	FM-010-002	B	1 of 1

FORM TITLE

CALIBRATION OF SMAW / GTAW WELDING EQUIPMENT

Master Clamp Meter		Welding Equipment:	
Mode No:		**Model No:**	
Sr No:		**Sr No:**	
Calibration Date:		**ID No:**	
Calibration Due Date:			
Calibrated By:			

Date of Calibration		Calibration Due Date	

Amp ID No:		Volt ID No:		OCV:	

S/N	Current knob	Master Ammeter	Deviation	% Deviation
1	50 Amps			
2	100 Amps			
3	150 Amps			
4	200 Amps			
5	250 Amps			

Acceptance Limits:

Calibrated in accordance with:

	Calibrated By	CCC QC Inspector (E&I)	CCC QC Inspector Welding
Name			
Signature			
Date			

COMPANY	CONTRACTOR Consolidated Contractors Company	PROJECT

CONTRACT No.	FORM OWNER	FORM No.	REV.	PAGE No.
	QMP-GEN-010	FM-010-003	B	1 of 1

FORM TITLE

CALIBRATION OF SAW / MIG / FCAW WELDING EQUIPMENTS

Master Clamp Meter		Welding Equipment	
Model No:		Model No:	
Sr. No:		Sr. No:	
Calibration Date:		ID No:	
Calibration Due Date:			
Calibrated By:			
Date of Calibration		Calibration Due Date	

Volt ID:		Amp ID No		WF ID No		OCV:	

Sr. No	Voltage	Master	Deviation	% Deviation	Amps	Master	Deviation	% Deviation	WF Knob	Actual WF Rate	Remark

Acceptance Limits:
Calibrated in accordance with:

	Calibrated By	CCC QC Inspector (E&I)	CCC QC Inspector Welding
Name			
Signature			
Date			

COMPANY	CONTRACTOR Consolidated Contractors Company	PROJECT

CONTRACT No.	FORM OWNER	FORM No.	REV.	PAGE No.
	QMP-GEN-010	FM-010-004	B	1 of 1

FORM TITLE

CALIBRATION OF BAKING / HOLDING OVENS & QUIVERS

Master Temp Indicator		Oven ID	
Model No:		Model No:	
Sr No:		Sr No:	
Calibration Date:		ID No:	
Calibration Due Date:			
Calibrated By:			

Date of Calibration		Calibration Due Date		Temp ID No	
Temp ID No					

Sr No	Knob Setting	Master Temperature	Oven Temperature	Deviation	% Deviation

Acceptance Limits:

Calibrated in accordance with:

	Calibrated By	CCC QC Inspector (E&I)	CCC QC Inspector Welding
Name			
Signature			
Date			

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CCC & TCC JV - DCG
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PROJECT / CONTRACT REF: 2115 / GC10112800

ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN

DOCUMENT TITLE:

INSPECTION AND TEST PLAN FOR EARTHWORKS

قطر للبترول
Qatar Petroleum
APPROVED FOR CONSTRUCTION
REF/IND. SIGNATURE DATE

Consolidated Contractors Group S.A.L (Offshore) & Teyseer Contracting Company W.L.L – JV (CCC & TCC JV)
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DATE	REV. NO.	REASON FOR REVISION	PREPARED BY	CHECKED BY	APPROVED BY CCC & TCC JV	APPROVED BY QP
11-OCT-11	A	APPROVED FOR CONSTRUCTION	N. YOUSEF	M. AL-HOSSAINY	I. AL SHARIF	
12-JULY-11	1	ISSUED FOR APPROVAL	M. ABU ATMEH	M. AL-HOSSAINY	I. AL SHARIF	
06-JULY-11	0	ISSUED FOR REVIEW / COMMENTS	M. ABU ATMEH	M. AL-HOSSAINY	I. AL SHARIF	

DOCUMENT NUMBER: RMPCGE1 - 9 - 04 - 0008 SHT 001 of 006 REV A

OUT - 0125
IN - 0131
IDT - 006

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INSPECTION AND TEST PLAN

EARTHWORKS

Contract No.: 2115 / GC10112800	Contract Title	EPIC FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	ITP No.: RMPCGE-9-04-0008	REV. A

No.	Activity Description	Inspection / Test Method	Controlling Document / Ref. Standard	Acceptance Criteria	Frequency	Reponsibility	Verifying Documents	Level of Participation Points		
								S/C	CCC / TCC JV	QP
1.	VERIFICATION OF DOCUMENT PRIOR TO START OF WORK									
1.1	Construction drawings	Visual	Construction drawing for each excavation	Approved For Construction (AFC)	At start of the inspection	Site Engineer & QC Engineer	Visual		H	H
1.2	Specification	Visual	All relevant specs & QCS 2007 Section 6 Part 3 & Section 12 Part 3	Specification / AFC	At start of the inspection	Site Engineer & QC Engineer	Visual		H	H
2.	GENERAL EXCAVATION									
2.1	Existing service & Facilities	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3	Prior to commencement of site preparation, excavation, CCC/TCC JV shall obtain the relevant excavation permits.	For each service/ each facility	Site Engineer & QC Engineer	RFI		H	S
2.2	Survey of Excavation area and setting out of excavation	Survey Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3	Excavation shall be carried out to the lines, levels & profiles shown on AFC drawings.	Each structural element	Site Engineer & Surveyor	Checklist		H	W
2.3	Verification of underground work	Survey Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3	Contractor shall include scanning/manual digging of the area to detect / identify u/g services, in the vicinity (If required) and as appropriate.	Each structural element	Site Engineer & Surveyor	Checklist		H	S
3.	EXCAVATION FOR FOUNDATION									
3.1	Excavation	Lab.	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3 & QCS 2007	Any loose, soft or other unsuitable material which is encountered below or adjacent to allowable lowest structural foundation levels as shown on the AFC drawings shall be removed.	Each structural element	QCI	RFI & Lab. Report (TPI)		H	W/R

H: Contractor must not proceed without approval	A: Responsible for approving release of hold point	I : Responsible for carrying out inspection or test	W : Responsible for / and witnessing all inspection test W10 : Responsible for witnessing a specified percentage of inspection or test i.e.	S : Responsible for carrying out random surveillance of inspection or test	R : Responsible for reviewing certification or reports

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EARTHWORKS

Contract No.: 2115 / GC10112800	Contract Title	EPIC FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	ITP No.: RMPCGE-9-04-0008	REV. A

No.	Activity Description	Inspection / Test Method	Controlling Document / Ref. Standard	Acceptance Criteria	Frequency	Reponsibility	Verifying Documents	Level of Participation Points		
								S/C	CCC / TCC JV	QP
3.2	Excavation for Foundation	Lab.	Particular specification Section B 3 (2115-0-14-0002) & BS 1377 & QCS Section 6 Part 3 & section 12 Part 3.	The bottom footing foundation shall be compacted & tested before proceeding further to the next activity.	Each layer	QC I & Lab. Technician	RFI & Lab. Report (TPI)	W	H	W/R
3.3	Backfill	Lab.	Particular specification Section B 3 (2115-0-14-0002) & BS 1377 & QCS Section 6 Part 3 & section 12 Part 3.	Backfill with suitable material to be compacted to 95% of MDD, thickness each layer 200mm Max.	Each layer	QC I & Lab. Technician	RFI & Lab. Report (TPI)	W	H	W/R
3.4	Control of Water/Ground Water Table	Lab.	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3	As per specification clause 3.7 & QCS 2007	Each location	QCI & Lab. Technician	RFI & Lab. Report (TPI)		H	W/R
4.	FILLING / BACKFILLING									
4.1	Backfilling with suitable material	Visual & Lab	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3 clause 4.3	Backfilling shall be done with consolidated thickness not exceed 200mm.	Each layer	Site Engineer & QCI	RFI & Lab. Report (TPI)		H	W/R
4.2	Testing & Inspection (Field Density)	Visual & Lab	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3 & QCS 2007	Fill below foundations & around found/str. = 95% MDD watered prior to compaction Moisture Content per whole layer +/- 3% OMC.	1 test / layer	TPI & Lab. Technician	RFI & Lab. Report (TPI)	W	H	W/R

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INSPECTION AND TEST PLAN

EARTHWORKS

Contract No.: 2115 / GC10112800	Contract Title	EPIC FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	ITP No.: RMPCGE-9-04-0008	REV. A

No.	Activity Description	Inspection / Test Method	Controlling Document / Ref. Standard	Acceptance Criteria	Frequency	Reponsibility	Verifying Documents	Level of Participation Points		
								S/C	CCC / TCC JV	QP
5.	Review of documentation. Completion of as built drawings	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) Section B3 & QCS 2007	As per specification & QCS 2007 particular specs for the backfilling	Prior to Punch list & Handing-over	Site Engineer & QC Engineer & QCI	All RFI's & attachments & related QA/QC documents.		H	H

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Qatar Petroleum	PROJECT CONTRACT REF:2115 / GC10112800 ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	CCC & TCC JV

SURVEY REPORT

AREA:	Description:	FM-1071-08-1001- Rev. 1
Reference Drawing:		RFI NO.
Date:		Sheet 1 of 1

No.	Area Description	ELEVATION				Coordinate				Difference	Tolerance	Compliant (Y/N)
						Drawing		Actual				
		Drawing	Actual	Difference	Tolerance	N	E	N	E			
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												

REMARKS:

CCC & TCC JV SURVEYOR	Name:	Signature:	Date:
CCC & TCC JV QC INSPECTOR	Name:	Signature:	Date:
WITNESS / REVIEW BY : QP REPRESENTATIVE	Name:	Signature:	Date:

EARTHWORKS COMPACTION RECORD

RFI No..

FIELD DENSITY RESULTS
INSITU DENSITY / MOISTURE TEST

General information

Contractor: CCC & TCC JV

Project Name: ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY

Proctor Information

Lab. Ref.

Test Date

Material

M.D.D. (g/cm^3)

O.M.C. (%)

Required Compaction (%)

Area of Backfill / Location:

Layer No.	Date	Depth (m)	Location (m)	M.C. (%)	W.D. (Bulk)	D.D.	Proctor Ref.	% Compaction	Compliant (Y/N)

CCC & TCC JV Lab. Tech.:

CCC & TCC JV QC Inspector:

Review / Witness by QP Representative:

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PROJECT / CONTRACT REF: 2115 / GC10112800

ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN

DOCUMENT TITLE:

INSPECTION AND TEST PLAN

FOR

CONCRETE STRUCTURES

Qatar Petroleum
APPROVED FOR CONSTRUCTION
REF. INS. | SIGNATURE | DATE 17.10.11

Consolidated Contractors Group S.A.L (Offshore) & Teyseer Contracting Company W.L.L – JV (CCC & TCC JV)
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DATE	REV. NO.	REASON FOR REVISION	PREPARED BY	CHECKED BY	APPROVED BY CCC & TCC JV	APPROVED BY QP
16-OCT-11	A	APPROVED FOR CONSTRUCTION	N. YOUSEF	M. AL-HOSSAINY	I. AL SHARIF	
16-JULY-11	1	ISSUED FOR APPROVAL	M. ABU ATMEH	M. AL-HOSSAINY	I. AL SHARIF	
7-JULY-11	0	ISSUED FOR REVIEW / COMMENTS	M. ABU ATMEH	M. AL-HOSSAINY	I. AL SHARIF	

DOCUMENT NUMBER: RMPCGE1 - 9 - 04 - 0019 SHT 001 of 012 REV A

Out - 0127
IN - 0133
IDT - 005

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INSPECTION AND TEST PLAN

CONCRETE STRUCTURES

Contract No.: 2115 / GC10112800	Contract Title	EPIC FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	ITP No.: RMPCGE1-9-04-0019	REV. A

No.	Activity Description	Inspection / Test Method	Controlling Document / Ref. Standard	Acceptance Criteria	Frequency	Reponsibility	Verifying Documents	Level of Participation Points		
								S/C	CCG / TCC JV	QP
1.	REQUIRED DOCUMENTS & SUBMITTALS									
1.1	Construction drawings	Visual	Construction drawing for each element	Approval for construction	At start of the inspection	Engineering Department	Visual		H	H
2.	Blinding Concrete									
2.1	Check formation level and the level of blinding structure before delivery/placement including required blinding thickness as per approved construction drawings.	Visual & Test	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	As per Approved drawings / Specification & QP Approval for MS	Each element	Site Engineer & QC Inspector	Checklist & Compaction test Report		H	W/R
3.	Rebar Works									
3.1	Check number, size, dimensions and position of rebar from approved drawing ,and check if rebar are rigidly held in placed, including sufficient number and position of chairs and spacers	Visual & Measure	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	• As per specification, Drawings, Contract & bar Bending Schedule • QP approval for MAR.	Each activity	Site Engineer & QC Inspector	Checklist		H	W/R
4.	Form Works									
4.1	Check dimensions, location, elevations and rigidity of embedded anchor bolts, sleeves as indicated in the approved drawing	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	As per AFC Drawings & QP Approval for MS	Each activity	Site Engineer & QC I & surveyor	Checklist		W/R	W/R
4.2	Check dimension, elevations, shape, alignment, and level of form	Survey Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	As per AFC Drawings	Each activity	Site Engineer & QC I& Surveyor	Checklist		H	W

H: Contractor must not proceed without approval	A: Responsible for approving release of hold point	I : Responsible for carrying out inspection or test	W : Responsible for / and witnessing all inspection test W10 : Responsible for witnessing a specified percentage of inspection or test i.e.	S : Responsible for carrying out random surveillance of inspection or test	R : Responsible for reviewing certification or reports

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INSPECTION AND TEST PLAN

CONCRETE STRUCTURES

Contract No.: 2115 / GC10112800	Contract Title	EPIC FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	ITP No.: RMPCGE1-9-04-0019	REV. A

No.	Activity Description	Inspection / Test Method	Controlling Document / Ref. Standard	Acceptance Criteria	Frequency	Reponsibility	Verifying Documents	Level of Participation Points		
								S/C	CCG / TCC JV	QP
4.3	Check cleanliness inside forms	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	No sand and debris	Each activity	Site Engineer & QC I	Checklist		W/R	S
5.	Before Concreting Works									
5.1	Prepare Concrete Joints	Visual & Lab.	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	**Construction Joints / Thermal Control Joints / Expansion Joints	Every joint	Site Engineer & QC I	Checklist		H	W
6.	During Concreting Works									
6.1	Check slump of fresh concrete delivered	Visual & Lab.	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007 & BS 1881	Prior to placement slump shall be between 60 & 100 mm for concrete without super-plasticizer & 100 mm (+35 /-15) for concrete with Super-plasticizer.	Each mixer	Site Lab Tech & QC Inspector	Checklist		W/R	W
6.2	Check temperature of fresh concrete delivered	Visual & Lab.	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS, Part4, Section 5 Clause 4.2.3	• The target temperature for "as mixed" concrete shall be 20 °C minimum and 25 °C maximum. • Concrete Temperature shall not exceeds 30°C.	Each mixer	Site Lab Tech & QC Inspector	Checklist		W/R	W
7.	Post Concreting Works									
7.1	Strike the formworks	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	As per specification Section B-2 Clause 4.2.6 & QP Approval for MS.	Each activity	Site Engineer & QC Inspector	Checklist		W/R	S
7.2	Curing	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	As per specification Section B-2 Clause 4.4 (7 days)	Each element	Site Engineer & QC Inspector	Checklist		H	S

H: Contractor must not proceed without approval	A: Responsible for approving release of hold point	I : Responsible for carrying out inspection or test	W : Responsible for / and witnessing all inspection test W10 : Responsible for witnessing a specified percentage of inspection or test i.e.	S : Responsible for carrying out random surveillance of inspection or test	R : Responsible for reviewing certification or reports

INSPECTION AND TEST PLAN

CONCRETE STRUCTURES

Contract No.: 2115 / GC10112800	Contract Title	EPIC FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	ITP No.: RMPCGE1-9-04-0019	REV. A

No.	Activity Description	Inspection / Test Method	Controlling Document / Ref. Standard	Acceptance Criteria	Frequency	Reponsibility	Verifying Documents	Level of Participation Points		
								S/C	CCG / TCC JV	QP
7.3	Curing compound.	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	• Application will be as per Manufacturer recommendation. • QP approval for MAR	Each element	Site Engineer & QC Inspector	Checklist		H	S
7.4	Post Pour Inspection	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	As Per specifications clause 4.5	Each element	Site & QC Inspector	Post Pour form		H	W
7.5	Concrete Bitumen Membrane / Waterproofing installed where required.	Visual	Particular Specification Volume 01 of 04 (2115-0-14-0002) & QCS 2007	• Application will be as per Manufacturer recommendation & specification clause 5. • QP Approval for MAR	Each element	Site & QC Inspector	Checklist & Concrete Test Report		H	W
8.	Final Acceptance									
8.1	Check lists Completed	Visual	Project Specification, QCS 2007, Standards/codes, Drawings	Compliance of all materials with requirements include QP approval for MAR's & MS's.	After completion of works	Site & QC Inspector	Related Forms Completed		H	R

H: Contractor must not proceed without approval	A: Responsible for approving release of hold point	I : Responsible for carrying out inspection or test	W : Responsible for / and witnessing all inspection test W10 : Responsible for witnessing a specified percentage of inspection or test i.e.	S : Responsible for carrying out random surveillance of inspection or test	R : Responsible for reviewing certification or reports

Qatar Petroleum	Consolidated Contractors Groups S.A.L (Offshore) & Teyseer Contracting Company W.L.L. - J.V.	CCC & TCC JV
	ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	RFI No:-
	STRUCTURAL CONCRETE POUR CARD	Sheet 1 of 1 Rev. 1

Pour Location / Identification :	Drawing Numbers.	DATE:	CONCRETE MIX ID
		METHOD of PLACEMENT	
		☐ PUMP ☐ CHUTE ☐ CRANE	

CCG/ TCC-JV Construction Departments Records									CCG/ TCC-JV QC Laboratory Departments Records					
TRUCK No	TICKET No	LOCATION	TIME BATCH	TIME ARRIVED	TIME START	TIME FINISH	QTY m^3	CUM QTY m^3	TIME SAMPLED	AIR TEMP °C	CONCRETE TEMP °C	SLUMP mm	CONCRETE CUBE	REMARKS

Prepared by Lab Technician	Inspected by CCC & TCC JV QC- Civil	QP REPRESENTATIVE

قطر للبترول Qatar Petroleum	CONSOLIDATED CONTRACTORS GROUPS S.A.L (OFFSHORE) (CCC) TEYSEER CONTRACTING COMPANY WLL - J.V. ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	CCC & TCC JV RFI No:-
	STRUCTURAL CONCRETE POST-POUR INSPECTION	SHT 1 OF 1 / REV. 1

	Date:
Pour Location / Identification :	DRAWING NC

	Activities to be checked by Construction	CONTRUCTION INITIALS / DATE	QC INSPECTOR INITIALS / DATE
1.	Initial protection of exposed surface adequate		
2.	Removal of formwork within the time and strength requirements		
3.	Openings (Size and location) correct.		
4.	Cast in items correct		
5.	No defects on surface (Line and level) or cracks and other surface defects.		
6.	Adequate curing as per specification.		
7.	Embedded items checked by survey (e.g. Anchor Bolts) and survey report to be attached.	Surveyor Name and Initials:	Date:
8.	Others		

Defect for Major Repair. (If applicable) :

Defect inspected by QC Inspector	Name	Sign	Date
Defect Inspected by QP	Name	Sign	Date

Repair Method to be used :

Repair completed and satisfactory	QC Inspector Name	Sign	Date

Remedial works Approved by QP Representative :

QP Representative	Name	Sign	Date

قطر للبترول Qatar Petroleum	CONSOLIDATED CONTRACTORS GROUPS S.A.L (OFFSHORE) (CCC) TEYSEER CONTRACTING COMPANY WLL - J.V. ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	CCC & TCC JV RFI No:-
	STRUCTURAL CONCRETE POST POUR INSPECTION FOR CONCRETE BITUTHENE MEMBRANE WATER PROOFING RECORD	SHT 1 OF 1 / REV. 1

REPORT NO

Location / Identification	DRAWING NO.

ACTIVITIES TO BE CHECKED BY CONSTRUCTION	Construction Sign/date	QC Inspector Sign/ Date
CONCRETE BITUTHENE MEMBRANE WATER PROOFING WITH PROTECTION BOARD INSTALLED AS PER MANUFACTURER RECOMMENDATION INCLUDING PRIMER WHERE IT IS REQUIRED AS PER APPROVED DRAWINGS		

THE ABOVE WORK HAVE BEEN COMPLETED AND RELEASED FOR THE NEXT STAGE OF CONSTRUCTION

	Name	Signature	Date
CCC & TCC JV QC Inspector			
QP Representative			

Qatar Petroleum	PROJECT CONTRACT REF:2115 / GC10112800 ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	CCC & TCC JV

SURVEY REPORT

AREA:		FM-1071-08-1001- Rev. 1
Reference Drawing:	Description:	RFI NO.
Date:		Sheet 1 of 1

No.	Area Description	ELEVATION				Coordinate				Difference	Tolerance	Compliant
						Drawing		Actual				
		Drawing	Actual	Difference	Tolerance	N	E	N	E			(Y/N)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												

REMARKS:

CCC & TCC JV SURVEYOR	Name:	Signature:	Date:
CCC & TCC JV QC INSPECTOR	Name:	Signature:	Date:
WITNESS / REVIEW BY : QP REPRESENTATIVE	Name:	Signature:	Date:

قطر للبترول Qatar Petroleum	ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	CCC & TCC JV RFI No:-	
	BLINDING / MASS CONCRETE RECORD	SHT 1 OF 1	REV. 1

System No:	**Date:**
Pour Location / Identification :	**DRAWING NO. With REV. NO.** **Method of Pouring:**

	Activities to be checked by Construction	**CONTRUCTION INITIALS / DATE**	**QC INSPECTOR INITIALS / DATE**
1.	**Area has been verified and checked (Mechanical/Electrical) if applicable.**		
2.	**Check tha earthwork compaction test passed as per Specification.**		
3.	**Guide rails set as per project specification and AFC drawings.**		
4.	**Pour checked for cleanliness, access and availability.**		
5.	**All setting out verified by the surveyor including dimensions, location and level**	Signature	Date

Released for the placement of blinding / mass concrete

CCC & TCC JV Civil QC Inspector	Name	Signature	Date
QP Representative	Name	Signature	Date

Concrete has been constructed in accordance with the Specification and AFC drawings.

CCC & TCC JV Const. Site / Section Engineer	Name	Signature	Date

The above works have been satisfactorily completed and have been checked by the survey department for correct line and level.

CCC & TCC JV Civil QC Inspector	Name	Signature	Date
QP Representative	Name	Signature	Date

Qatar Petroleum	ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY	CCC & TCC JV RFI No:-	
	PRE-CAST CONCRETE INSPECTION RECORD	SHT 1 OF 1	REV. 1

System No.:	Date:	RFI No.:
Unit ID		DRAWING NO. With REV. NO.
Pour Location / Identification:		

	Activities to be checked by Construction	CONTRUCTION INITIALS / DATE	QC INSPECTOR INITIALS / DATE
1.	Check that formwork & support installation is proper and release agent applied properly		
2.	Check that wind protection installed.		
3.	Check that rebar is free from rust, oil, damage and installed as per drawings with the correct cover.		
4.	Check that all anchor bolts and embedded items are installed as required, if applicable. And released form Electrical and Mechanical section.		
5.	Others (if applicable)		

ALL REBAR, FORMWORK, EMBEDDED ITEMS CHECKED AND READY FOR QC INSPECTION

CCG Site Engineer	Name and Signature:	Date	Time

CIVIL QC VERIFICATION OF ABOVE ITEMS. READY FOR QP INSPECTION

CCG Civil QC Inspector	Name and Signature:	Date	Time

QP VERIFICATION FOR POUR RELEASE BY FOR PLACING OF CONCRETE

QP Representative	Name and Signature:	Date	Time

	Post Pour Inspection	Date	Time	CONSTRUCTION INITIALS	QC INSPECTOR INITIAL / DATE
1.	Inspection after formwork removal. (See below for repairs if necessary)				
2.	Curing Compound applied properly as manufacturer recommendation or wet curing as per the specification.				
3.	Anchor bolts (if any) correct location, line and level				
4.	Waterproofing applied as specified				
5.	Strength / maturity adequate for lifting (See below)				
6.	Precast Units have indelible identity and location marks				
7.	Others				

Details of repairs (If necessary).

Repaired and approved reference:-	Date	QP Representative

The above works have been completed and released for the next stage of construction.

CCC & TCC -JV Civil QC Inspector	QP Representative
Name:	
Signature:	
Date:	

Qatar Petroleum

قطر للبترول

Consolidated Contractors Groups S.A.L (Offshore) (CCC)
Teyseer Contracting Company WLL - J.V

CCC & TCC JV

ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR MULTIPURPOSE ADMINISTRATION COMPLEX PHASE -1 AT RAS LAFFAN CITY

RFI No:-

PRE-CAST CONCRETE POUR CARD

Sheet 1 of 1 | Rev. 1

Pour Location / Identification		Drawing Numbers.	DATE:	CONCRETE MIX ID
			METHOD of PLACEMENT ☐ PUMP ☐ CHUTE ☐ CRANE	
Type	Unit Ref. Nos.		Pouring Location :-	

CCC & TCC JV Construction Departments Records										CCC & TCC JV QC Laboratory Departments Records						
TRUCK No	TICKET No	P.C. TYPE No.	P.C. UNIT No.	TIME BATCH	TIME ARRIVED	TIME START	TIME FINISH	QTY m3	CUM QTY m3	TIME SAMPLED	AIR TEMP °C	CONCRETE TEMP °C	SLUMP mm	CUBE SET I.D.	TECH. NAME / INIT	REMARKS

Prepared by Lab Technician	Inspected by CCC & TCC JV QCI	QP

قطر للبترول Qatar Petroleum	Consolidated Contractors S.A.L (Offshore) (CCC) Teyseer Contracting Company WLL - J.V. ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING (EPIC) FOR BERTHS AND PORT INFRASTRUCTURE FOR RAS LAFFAN PORT EXPANSION PROJECT	CCC & TCC JV RFI No:-
	STRUCTURAL CONCRETE PRE-POUR INSPECTION	SHT 1 OF 1 / REV. 1

System No.:	Date:

Pour Location / Identification	DRAWING NO.

	Activities to be checked by Construction	CONTRUCTION INITIALS / DATE	QC INSPECTOR INITIALS / DATE
1.	Check that blinding or earlier work has been completed and is realeased		
2.	Check that existing concrete surface (if any) has been properly scabbled & concrete pouring place is clean and construction joints (if any) are adequately prepared		
3.	Check that formwork & support installation is proper and released agent applied properly		
4.	Check that rebar is free from rust, oil, damage and installed as per drawings		
5.	Check adequacy of spacers and specified concrete cover.		
6.	Check that all civil piping is fixed and ready for casting		
7.	Check that all electrical items are fixed and ready for casting		
8.	Check Cathodic Protection installed. (If applicable)		
9.	Check that all mechanical items are fixed and ready for casting		
10.	Check availability of wind protection and curing materials.		
11.	Check that all anchor bolts and embedded items are installed as required. (If applicable)		
12.	All settings out verified by Surveyor including Anchor bolts and concreting level and all dimentions checked and correct within tolerance.	Surveyor Name and Initials	Date

CCC & TCC JV CONST.	CCC & TCC JV QCI	QP REPRESENTATIVE
NAME:		
SIGNATURE:		
DATE:		

JOINT VENTURE AGREEMENT

This Agreement is entered into this 18th day of October 2014, by and

BETWEEN

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC), established under the laws of Lebanon, with its registered office of its Qatar branch at P.O. Box 23897, Doha, Qatar, (hereinafter referred to as "**CCC**")

AND

TEYSEER CONTRACTING COMPANY W.L.L., a Qatari Company having its address at P.O. Box 2630, Doha, Qatar (hereinafter referred to as "**TCC**")

(referred to herein singularly or collectively as "Party" or "Parties" respectively).

RECITALS

The Parties wish to form a joint venture for the exclusive purpose of tendering for and performing a contract (hereinafter referred to as "**Contract**") in connection with the **TENDER NO. GTC 626/2014 CONSTRUCTION OF MEGA RESERVOIR PRPSs (Package A) (PRPS-1)** (hereinafter referred to as "**Project**") for **QATAR GENERAL ELECTRICITY & WATER CORPORATION – KAHRAMAA** (hereinafter referred to as "**Employer**"), in accordance with the following terms and conditions.

It is hereby agreed as follows:

Clause 1

The Parties hereby formed a joint venture entity separate from CCC and TCC, in the name of "**CCC/TCC JV**", exclusively for the purpose of preparing an estimate for the Project and tendering. In the event that the Tender is successful, CCC/TCC JV will effect the Contract with the Employer and undertakes the responsibility for performance of the Contract towards the Employer.

Clause 2

The Parties acknowledge and undertake that CCC/TCC JV legally represents CCC and TCC for all issues related to the Contract.

Clause 3

CCC/TCC JV will be backed by the full resources of the Parties who will be jointly and severally responsible for the proper fulfillment of all the works and all obligations under the Contract, without exceptions or limitations whatsoever.

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC)

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Clause 4

CCC/TCC JV's representative to bid for the Tender and if CCC/TCC JV is awarded the Project to sign and execute the Contract is Mr. MUSTAFA YOUNIS who is fully authorized by CCC and TCC in all matters related to the Contract, including coordination of all activities under the Tender and/or the Contract.

Clause 5

This joint venture agreement is final and binding and will not be amended or revised without the prior approval of the Employer.

Clause 6

Unless otherwise agreed upon, each Party shall bear its own expenses incurred in the preparation and submission of the Tender.

Clause 7

The participating interests of the Parties in CCC/TCC JV and in any and all property or equipment acquired by the CCC/TCC JV and in any and all profits or losses which may be derived from the performance of the Project, and any liability shall be in the following proportions:

CCC - Fifty Percent (50%)
TCC - Fifty Percent (50%)

Clause 8

8.1 General affairs and the management of CCC/TCC JV shall be the responsibility of a Managing Board (hereinafter referred to as "the Board") constituted by 4 members, 2 appointed by each Party.

The Board shall act in all matters with full and complete authority on behalf of CCC/TCC JV.

8.2 Either Party may at any time and from time to time change its members on the Board, by filing with the other Party a notice in writing to that effect, but until the filing of such notice the action of the incumbent members shall be binding on such Party.

8.3 The following members are hereby appointed on the Board:
Mr. Nazih Abdul Kader
Mr. Mustafa Younis
Mr. Adel Abdul Al
Mr. Jamal Watfa

8.4 Mr. Mustafa Younis will be the chairman of the Board (the "**Chairman**"), and if the votes of the members for any decision to be taken by the Board are equal, the Chairman will have the casting vote.

8.5 The Chairman shall call Board meetings when necessary in his opinion or when requested in writing, but in any case at intervals of less than two months during the course of the Project, unless agreed upon differently by the Parties.

If a meeting shall not have been convened by the Chairman so as to take place within ten (10) days after the request of another Board member, such Board member shall have

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P.O. Box : 2630 Doha - Qatar

power to call a Board meeting on not less than ten (10) days' notice, and shall have a similar right in case a meeting shall not have been called within two (2) months of the previous meeting.

Notice for a meeting may be by registered mail, on ten days' notice, and shall always contain the agenda of the meeting in question.

8.6 A quorum shall be constituted when at least 3 Board members are present at a Board meeting.

8.7 The Chairman shall ensure that minutes of meetings be taken and shall forward the same to the Parties in due time, but not exceeding two weeks. The minutes of meetings shall be deemed approved if within a period of 14 days after receipt of such minutes, no objections are raised.

8.8 The Board may take decisions without a meeting being held provided at least 3 Board members are in favour of such a procedure and give the consent of at least 3 Board members in writing or by fax. A decision so taken shall be included in the minutes of the following meeting with the date on which it was taken.

8.9 The Chairman shall ensure that all resolutions approved by the Board are properly implemented.

8.10 Since certain decisions concerning various matters need to be taken on timely basis, the Chairman is empowered to take provisional decisions concerning said matters; such decisions of the Chairman shall become effective immediately and remain effective and binding on CCC/TCC JV until the Board decides otherwise.

Clause 9

The Board shall have total control over CCC/TCC JV. It shall supervise CCC/TCC JV's activities and may look into all matters and questions related to the performance of the Contract. The authority of the Board comprises inter alia the following:

(a) To determine the method of operation that will most efficiently deploy the economic resources of CCC/TCC JV on the Project.
(b) To decide on agreements with third parties for such engineering services, procurement and subcontracts as are necessary for the execution of the Project.
(c) To appoint the Project Management Team, to authorise the Project Manager to act on certain specified matters, to approve the Project Manager's request for the termination of the employment of senior personnel.
(d) To decide on the costs and expenses chargeable to the Project.
(e) To determine the need for working capital and to request the Parties to provide the necessary finance for the Project.
(f) To decide on the distribution of funds and profits, from time to time and at the end of the Project.
(g) To determine the requirements of keeping books of accounts and to authorise bank signatories.
(h) To appoint independent external auditors.
(i) To decide on equipment requirements, including acquisition and disposal thereof.
(j) To receive and approve the following Project reports:
- Project Manager's Monthly Reports.
- Cash Flow Plan and Report and Financial Statements.
- Yearly Profit and Loss Accounts.
- Final Profit and Loss Account.

Clause 10

10.1 The Project Management team constituted by the Board shall consist of a Project Manager, Deputy Project Manager, and other key personnel appointed by the Board.

10.2 The Project Manager shall be bound to comply with the instructions of the Board in the supervision of the Project. The Project Manager is responsible for ensuring that performance of the Project complies with the conditions of the Contract.

10.3 The Project Manager shall be authorised for local representation of CCC/TCC JV. Special authorisation of the Board shall be required for any negotiations by the Project Manager which involve major modifications of the Contract. The same applies to raising of loans, issue and acceptance of promissory notes or drafts, procurement of heavy plant, equipment and materials and similar transactions. The Project Manager may not institute legal proceedings or, in the absence of the Employer's instructions, stop work on the Project.

10.4 The particulars, extent and limitations of the duties and powers of the Project Manager shall be decided by the Board. The duties and powers of the Project Manager will be defined by a "Standing Order" issued at the first Board meeting. The resignation or a request for the removal of the Project Manager shall be submitted to the Board for a decision.

Clause 11

11.1 The capital of CCC/TCC JV shall be provided by the Parties in the currency of the Contract unless otherwise agreed by the Board. A bank account or accounts shall be opened in such bank or banks and in such name or names as the Board may determine. All funds advanced by the Parties for the performance of the Project shall be deposited therein. The said sums may be withdrawn by cheque draft or other instrument upon such signature or signatures as designated by the Board.

11.2 The capital of CCC/TCC JV shall be furnished by each Party in proportion to its participation interest in CCC/TCC JV stated in Clause 7 above.

11.3 Initially, a "Cash-Flow Plan" will be prepared at the start of the Project and subsequently, on a month-by-month basis for the duration of the Project based upon the projections of income and expenditure set out in the preliminary/revised budget of the Project.

At the end of every month, a "Cash-Flow Report" will be prepared incorporating the following information:

- The previous month's actual receipts and payments;
- The previous month's planned receipts and payments from the Cash-Flow Plan;
- The previous month's cumulative actual receipts and payments;
- The previous month's cumulative planned receipts and payments from the Cash-Flow Plan;
- The forecast for the following 6 months, receipts and payments on a monthly basis and thereon on a quarterly basis till the end of the Project.

The Cash-Flow Plan and the Monthly Cash-Flow Report must show:

11.4 The Project Management shall make requests, when necessary, to the Board for any additional funds that may be required.

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P.O. Box : 2630 Doha, Qatar

11.5 The capital contributed by the Parties and all monies received under the Contract or otherwise received shall be held in such bank account(s) as may be decided by the Board. Such monies shall be used solely for the performance of the Project and for no other purpose until acceptance of the Project by the Owner and final discharge of the obligations of the Parties inter se or in respect of third parties.

Clause 12

12.1 The site organisation shall be headed by the Project Manager. The Board shall agree upon the key technical and administrative staff. All other personnel and labour shall be engaged and discharged by the Project Manager.

12.2 The Project Manager is entitled to request the replacement of any senior staff (such level to be as determined by the Board) provided that Board approval is obtained. The replacement shall be effected as soon as is practically possible. Board approval is not necessary in the case of the dismissal and replacement of staff other than senior staff.

Clause 13

13.1 The books of account shall be kept at the Project office unless otherwise decided by the Board, and shall be open to examination by either Party. The accounts shall be kept in the currency of the Contract. The balances of the Parties' accounts shall be computed on a monthly basis, prior to the preparation of the Monthly Cash Flow.

13.2 An audit of the said books shall be made annually and upon completion of the Project by an independent firm of auditors designated by the Board.

13.3 To the extent that records are required by law to be maintained subsequent to completion of the Project, the records shall be kept at such place or places as the Board shall determine.

13.4 As soon as practicable after each calendar year but not later than the 15th of February, the Chairman shall submit for approval to the Board the final profit and loss account for the preceding year.

13.5 As soon as practicable after completion of the Project and receipt of the final payment in respect thereof, the Chairman shall submit for approval to the Board the final profit and loss account.

Clause 14

14.1 In the event of any damage caused by one of the Parties to CCC/TCC JV or to the other Party whether wilfully or by gross negligence tantamount to wilful misconduct, the Party in default shall keep harmless and indemnify the other Party against such damage.

14.2 Notwithstanding the foregoing, neither Party shall be entitled to claim from the other any indirect or consequential losses save those (if any) which have been suffered or allegedly claimed to have been suffered by the Employer as a result of the failure of the other Party to perform its obligations.

Clause 15

15.1 This Agreement shall come into force on the date first above mentioned.

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC)
Teyseer Contracting Co. (W.L.L.)
P.O. Box: 2636 Doha - Qatar

15.2 Subject to Clause 15.3 below, this Agreement shall terminate on any of the following occurrences:
(a) Failure of the Parties to submit a bid to the Employer, or
(b) The Contract is awarded to a third party, or
(c) Upon expiry of the validity period of the Tender unless extended by mutual agreement of the Parties, or
(d) Within one year from the date hereof and the Tender is not awarded, unless otherwise agreed.

15.3 The Parties shall not have the right to terminate this joint venture agreement until the Employer – or another party on behalf of the Employer – issues Final Completion Certificate for the Project. After the Employer – or another party on behalf of the Employer – issues Final Completion Certificate for the Project, this Agreement shall remain in force until the date of approval of the final profit and loss account by the Parties, provided that this Agreement shall remain in force thereafter until all rights or obligations which may still exist as against the Employer or other third parties have terminated.

Clause 16

The Parties shall not be entitled to sell, assign, or in any manner encumber their interests or any part thereof in this joint venture, without obtaining the prior written consent of the other Party hereto.

Clause 17

Any differences or disputes arising from or in connection with the Agreement shall be resolved by the Senior Managements of the Parties. In case agreement cannot be reached, the matter shall be finally settled by arbitration, in the English Language, in accordance with the Rules of Arbitration of the International Chamber of Commerce by three arbitrators appointed in accordance with the said Rules. The seat of the arbitration shall be Geneva, Switzerland.

Clause 18

This Agreement shall be governed by and construed in accordance with the laws of Switzerland.

IN WITNESS WHEREOF the Parties have signed this Agreement the day and date first above written:

For and on Behalf of **CCC,**	For and on Behalf of **TCC,**
Nazih Abdul Kader	**Mustafa Younis**
Name	*Name*
Executive Vice President Operations	**General Manager**
Title	*Title*
Signature	*Signature*
Witness	*Witness*

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC)

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Teyseer Contracting Co. (W.L.L.)
P.O. Box : 2630 Doha - Qatar

KAHRAMAA كهرماء

المؤسسة العامة القطرية للكهرباء والماء
Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS الشؤون الفنية

TELEFAX MESSAGE	DATE: ١٩/11/2014	TOTAL PAGES: 1
To: M/s. Teyseer Contracting & CCC (JV)		Fax:
For the Attention of: The General Manager		Our Ref.: TA/DO/TW/14/ 1914

Project : Constructions of Mega Reservoirs PRPs (Package A,B,C,D&E) - GTC 626/2014

SUBJECT : NEGOTIATION MEETING

With reference to your offer for the subject tender, Please be informed that you are requested to attend a Negotiation Meeting with GTC Sub-Committee on Monday 24th November 2014 at 09.00 AM at 07th Floor, Kahramaa Main Building, Dafna Area.

Therefore, please acknowledge receipt of this fax message confirming your attendance.

Regards,

ENG. AHMED NASSER AL-NASR
DIRECTOR, TECHNICAL AFFAIRS

CC: WP, GTC, TW, File

Tele: (974) 4484 5333 - Fax: (974) 44845391
P O BOX 41, DOHA - QATAR.

هاتف: (974)44845333 - فاكس: 44845391
ص.ب: 41 الدوحة قطر

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
BLDG. 102, ALI BIN ABI TALEB STREET 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: CCC/32.00/L-1080 Date: November 19 , 2014

Technical Affairs
Qatar General Electricity & Water Corporation
19th Floor, Khramaa Main Building
West Bay (Dafna)
P.O. Box 41
Doha, Qatar
Fax: 4484 5949

Attention: Eng. Ahmed Nasser Al-Nasr
Director, Technical Affairs

Subject: GTC 2014/626
Construction of Mega Reservoir PRPSs (Package A, B, C, D & E)
Negotiation Meeting

Reference is made to your letter No. TA/DO/TW/14/1914 dated 19/11/2014. We acknowledge receipt of the above referenced letter and confirm our attendance in the negotiation Meeting on 24th November 2014 at 09:00 AM

Very truly yours,

Mustaga Younis
General Manager

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: 4857/MY/L394

Date: 30 November 2014

To: **Water Projects Department**
Kahramaa Main Building, Floor #19
Doha – Qatar

Att.: **Eng. Ahmed Nasser Al-Nasr**
Director, Technical Affairs

Project: **Construction of Mega Reservoirs PRPSs (Packages A, B, C, D&E)**
GTC 626/2014

Subject: **Post Tender Negotiation Meeting - Clarification**

Dear Sir,

With reference to the Negotiation Meeting held on Monday 24th November 2014 at Kahramaa offices, please find enclosed the revised BOQ and Form of Tender with the proposed discount for packages A, B, C, D & E respectively.

We remain at your disposal should you require any further discussion or clarification.

Yours faithfully,

Mustafa Younis
General Manager

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

KAHRAMAA

المؤسسة العامة القطرية للكهرباء والماء

Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS الشؤون الفنية

TELEFAX MESSAGE	DATE: 19 /01/2015	TOTAL PAGES: 1
To: M/s. Teyseer Contracting & CCC (JV)		Fax:
For the Attention of: The General Manager		Our Ref.: TA/DO/TW/15/ 077

Project : Constructions of Mega Reservoirs PRPs (Package A,B,C,D&E) - GTC 626/2014

SUBJECT : NEGOTIATION MEETING

With reference to your offer for the subject tender, Please be informed that you are requested to attend a Negotiation Meeting with GTC Sub-Committee on Wednesday 21th January 2015 at 09.00 AM at 07th Floor, Kahramaa Main Building, Dafna Area.

Therefore, please acknowledge receipt of this fax message confirming your attendance.

Regards,

ENG. AHMED NASSER AL-NASR
DIRECTOR, TECHNICAL AFFAIRS

CC: WP, GTC, TW, File

Warning: this fax and its attachments may contain information which is confidential. They should not be copied, disclosed or copied to anyone without the approval of the sender. If you are not the intended recipient of this fax, any attachments and copies, please notify the sender by email or fax immediately. Confidentiality is not waived or lost by mistaken delivery.

Tele: (974) 4484 5333 - Fax: (974) 44845391
P O BOX 41, DOHA - QATAR.

تليفون : 44845333 (974) - فاكس : 44845391
ص ب : 41 الدوحة – قطر

enterliving

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) / TEYSEER CONTRACTING COMPANY W.L.L.

JOINT VENTURE

CORRESPONDENCE ADDRESS

BLDG. 102, ALI BIN ABI TALEB STREET 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: CCC/32.00/L-1147 Date: January 19 , 2015

Technical Affairs
Qatar General Electricity & Water Corporation
19th Floor, Khramaa Main Building
West Bay (Dafna)
P.O. Box 41
Doha, Qatar
Fax: 4484 5949

Attention: Eng. Ahmed Nasser Al-Nasr
Director, Technical Affairs

Subject: GTC 2014/626
Construction of Mega Reservoir PRPSs (Package A, B, C, D & E)
Negotiation Meeting

Reference is made to your letter No. TA/DO/TW/15/077 dated 19/01/2015. We acknowledge receipt of the above referenced letter and confirm our attendance in the negotiation Meeting on 21st January 2015 at 09:00 AM

Very truly yours,

Mustafa Younis
General Manager

KAHRAMAA كهرماء

المؤسسة العامة القطرية للكهرباء والماء
Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS الشؤون الفنية

TELEFAX MESSAGE	DATE: 22 JAN 2015	TOTAL PAGES: 1
To: M/s. CONSOLIDATED CONT (CCC) TEYSEER - (JV)		Fax No.
For the Attention of: General Manager.		Our Ref.: TA/DO/FX/TW/15/126

SUBJECT: CONSTRUCTION OF MEGA RESERVOIR PRPSS (PACKAGES A, B, C, D & E) - GTC – 626/2014

SUBJECT: EXTENSION OF VALIDITY FOR TENDER & TENDER BOND

With reference to the above mentioned subject, you are requested to extend the validity of the tender bond for the above mentioned project till 14-May-2015, to confirm the extension of the validity of your offer till 14-April-2015 and submit both on 03-February-2015 before 12:00 noon.

These requirements to be addressed to Director Technical Affairs and submitted by hand to Water Projects Department office (19th floor, Kahramaa Main Building No.1, Dafna Area, room No.1904/04).

Your immediate action shall be appreciated.
Regards,

ENGR. AHMED NASSER AL-NASER
DIRECTOR, TECHNICAL AFFAIRS

CC: GTC, TW (TWD & TWM), File

Tele: (974) 4484 5333 - Fax: (974) 44845391
P O BOX 41, DOHA - QATAR.

تليفون : ٤٤٨٤٥٣٣٣(٩٧٤) – فاكس : 44845391
ص.ب : ٤١ الدوحة – قطر

better living

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: 4857/AH/L032 Date: 29 January 2015

To: **Water Projects Department**
Kahramaa Main Building, Floor #19
Doha – Qatar

248
29 JAN 2015
RECEIVED

400
WATER PROJECTS
Date 29 JAN 2015
Rush | Urgent | Normal
Section | Action | Info.
TWM
TWS
TWD ✓
TWB
Others
Signature

Att.: **Eng. Ahmed Nasser Al-Nasr**
Director, Technical Affairs

Project: **Construction of Mega Reservoirs PRPSs (Packages A, B, C, D&E) GTC 626/2014**

Subject: **Post Tender Negotiation Meeting dated 21st Jan'15.**

Dear Sir,

Reference is made to the Negotiation Meeting held on Wednesday 21st January 2015 at Kahramaa offices. After reviewing our proposal we are pleased to discount the price as follows:

Package	PRPS	Offer dated 30th Nov' 14 (QR)	Best and final offer 29th Jan '15 (QR)
A	PRPS1	2,158,734,343.01	2,147,940,000.00
B	PRPS2	2,380,592,492.57	2,368,690,000.00
C	PRPS5	2,270,215,519.63	2,258,865,000.00
D	PRPS3	2,265,415,241.92	2,254,088,000.00
E	PRPS4	2,455,093,120.48	2,442,818,000.00

We reiterate our capability to handle two packages simultaneously; accordingly and in case two packages are awarded to CCC/TCC JV a further 1% discount applies to the sum of the amounts above related to these two awarded packages.

TWD
29 JAN 2015
RECEIVED

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. W.L.L. - JV

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

In addition, we would also like to bring to your attention that, due to the recent depreciation in the value of the euro, applying the currency pricing formula will result in a further reduction to the prices above hence a benefit to KAHRAMAA which is illustrated in the table below (this is based on the rate of 0.85 Euro/ $ vs the tender rate of 0.72 Euro/$).

Package	PRPS	Best and final offer 29th Jan '15 (QR)	Adjusted Offer after applying the currency pricing formula (QR)
A	PRPS1	2,147,940,000.00	2,128,696,990.00
B	PRPS2	2,368,690,000.00	2,340,496,503.00
C	PRPS5	2,258,865,000.00	2,237,179,399.00
D	PRPS3	2,254,088,000.00	2,232,132,147.00
E	PRPS4	2,442,818,000.00	2,415,041,750.00

We remain at your disposal should you require any further discussion or clarification.

Yours faithfully,

Antoine Haddad
VP Sales, Estimation and Proposals (Civil)

CONSOLIDATED CONTRACTORS GROUP S.A.L. (Offshore) (CCC) / TEYSEER CONTRACTING CO. WLL - JV

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: 4857/MY/L023

Date: 03 February 2015

To: **Water Projects Department**
Kahramaa Main Building, Floor #19
Doha – Qatar

Att.: **Eng. Ahmed Nasser Al-Naser**
Director, Technical Affairs

Project: **Construction of Mega Reservoir PRPSS (Packages A, B, C, D & E)**
GTC - 626/2014

Subject: **Extension of Validity for Tender & Tender Bond**

Dear Sir,

Reference is made to your letter ref. TA/DO/FX/TW/15/126, dated 22 January 2015.

We confirm the extension of the validity of our offer for the above mentioned project till 14-April-2015 and the extension of the validity of the relevant two Tender Bonds till 14-May-2015. The Original amendments to Tender Bonds are enclosed.

We remain at your disposal should you require any further discussion or clarification.

Yours faithfully,

Mustafa Younis
General Manager

Encl.: Amendments to Tender Bonds

البنك التجاري
COMMERCIAL BANK

ORIGINAL

Date: January 25, 2015
Our Ref: LG111873/14

M/s. QATAR GENERAL ELECTRICITY AND WATER CORPORATION (KAHRAMAA)
P.O. BOX: 41,
DOHA, STATE OF QATAR

Dear Sirs,

RE: AMENDMENT UNDER OUR TENDER GUARANTEE NO.LG111873/14 FOR QAR.20,000,000.00
COVERING: CONSTRUCTION OF MEGA RESERVOIR PRPSs (PACKAGES A, B, C, D & E)
REFERENCE TENDER NO.: GTC 626/2014
APPLICANT: M/S. CONSOLIDATED CONTRACTORS GROUP SAL (OFFSHORE) (CCC)/ TEYSEER CONTRACTING COMPANY WLL – JV, P.O. BOX: 37022, DOHA, QATAR

At the request of the Applicant M/s. CONSOLIDATED CONTRACTORS GROUP SAL (OFFSHORE) (CCC)/ TEYSEER CONTRACTING COMPANY WLL – JV, we hereby amend the above mentioned Guarantee as follows:

- Expiry date of the Guarantee is extended until 14th May, 2015.

All other terms and conditions of this Guarantee remain unchanged.

Any claim under this Guarantee must be made in writing direct to the Bank accompanied by the amendment(s) and the original Guarantee and must be received on or before the close of business of the extended expiry date i.e., 14th May, 2015.

Notwithstanding mentioned herein above our liability under this guarantee is restricted to a maximum sum of QAR.20,000,000.00 (Qatari Riyals Twenty Million Only) immediately up to 14th May, 2015 after which date this guarantee will be considered as null and void whether or not it is returned to us.

Yours faithfully,
For The Commercial Bank of Qatar (Q.S.C.)

AUTHORISED SIGNATURE(S)

The Commercial Bank of Qatar (Q.S.C.)
PO Box 3232, Doha, State of Qatar
Tel: +974 4449 0000
Fax: +974 4449 0070

البنك التجاري القطري (ش.م.ق.)
ص.ب ٣٢٣٢، الدوحة، قطر
هاتف: +٩٧٤ ٤٤٤٩ ٠٠٠٠
فاكس: +٩٧٤ ٤٤٤٩ ٠٠٧٠

البنك التجاري
COMMERCIAL BANK

ORIGINAL

Date: January 25, 2014
Our Ref: LG111922/14

M/s. QATAR GENERAL ELECTRICITY AND WATER CORPORATION (KAHRAMAA)
P.O. BOX: 41,
DOHA, STATE OF QATAR

Dear Sirs,

RE: AMENDMENT UNDER OUR TENDER GUARANTEE NO.LG111922/14 FOR QAR.20,000,000.00
COVERING: CONSTRUCTION OF MEGA RESERVOIR PRPSs (PACKAGES A, B, C, D & E)
REFERENCE TENDER NO.: GTC 626/2014
APPLICANT: M/S. CONSOLIDATED CONTRACTORS GROUP SAL (OFFSHORE) (CCC)/ TEYSEER CONTRACTING COMPANY WLL – JV, P.O. BOX: 37022, DOHA, QATAR.

At the request of the Applicant M/s. CONSOLIDATED CONTRACTORS GROUP SAL (OFFSHORE) (CCC)/ TEYSEER CONTRACTING COMPANY WLL – JV, P. O. Box 37022, Doha, Qatar we hereby amend the above mentioned Guarantee as follows:

- Expiry date of the Guarantee is extended until 14th May, 2015.

All other terms and conditions of this Guarantee remain unchanged.

Any claim under this Guarantee must be made in writing direct to the Bank accompanied by the amendment(s) and the original Guarantee and must be received on or before the close of business of the extended expiry date i.e. 14th May, 2015.

Notwithstanding mentioned herein above our liability under this Guarantee is restricted to a maximum sum of QAR.20,000,000.00 (Qatari Riyals Twenty Million Only) up to 14th May, 2015, after which date this guarantee will be considered as null and void whether or not it is returned to us.

Yours faithfully,
For The Commercial Bank of Qatar (Q.S.C.)

AUTHORISED SIGNATURE(S)

The Commercial Bank of Qatar (Q.S.C.)
PO Box 3232, Doha, State of Qatar
Tel: +974 4449 0000
Fax: +974 4449 0070

البنك التجاري القطري (ش.م.ق.)
ص.ب ٣٢٣٢، الدوحة، قطر
هاتف: +٩٧٤ ٤٤٤٩ ٠٠٠٠
فاكس: +٩٧٤ ٤٤٤٩ ٠٠٧٠

cc Mr Antoine Hesdent

KAHRAMAA

المؤسسة العامة القطرية للكهرباء والماء

Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS الشؤون الفنية

TELEFAX MESSAGE	DATE: 9 /02/2015	TOTAL PAGES: 1
To: M/s. Teyseer Contracting & CCC (JV)		Fax:
For the Attention of: The General Manager		Our Ref.: TA/DO/TW/15/ 224

Project : Constructions of Mega Reservoirs PRPs (Package A,B,C,D&E) - GTC 626/2014

SUBJECT : NEGOTIATION MEETING

With reference to your offer for the subject tender, Please be informed that you are requested to attend a Negotiation Meeting with GTC Sub-Committee on Wednesday 11th February 2015 at 10.00 AM at 07th Floor, Kahramaa Main Building, Dafna Area.

Therefore, please acknowledge receipt of this fax message confirming your attendance.

Regards,

ENG. AHMED NASSER AL-NASR
DIRECTOR, TECHNICAL AFFAIRS

CC: VP, GTC, TW, File

Tele: (974) 4484 5333 - Fax: (974) 44846391
P.O.BOX 41, DOHA - QATAR.

هاتف: (974)44845333 - فاكس: 44846391
ص.ب: 41 الدوحة - قطر

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.

JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: CCC/30.02/M-1162

Date: 09 February 2015

To: **Water Projects Department**
Kahramaa Main Building, Floor #19
Doha – Qatar

Att.: **Eng. Ahmed Nasser Al-Naser**
Director, Technical Affairs

Project: **Construction of Mega Reservoir PRPSS (Packages A, B, C, D & E)**
GTC - 626/2014

Subject: **NEGOTIATION MEETING**

Dear Sir,

Reference is made to your fax ref. TA/DO/TW/15/224, dated 09 February 2015. We confirm our attendance for the subject meeting on Wednesday 11th February 2015.

Yours faithfully,

Mustafa Younis
General Manager

CONSOLIDATED CONTRACTORS GROUP S.A.L. (OFFSHORE) (CCC) /
TEYSEER CONTRACTING COMPANY W.L.L.
JOINT VENTURE

CORRESPONDENCE ADDRESS
ALI BIN ABI TALEB STREET • STREET NO. 820 • AL ASSERY AREA • ZONE 40 • P.O. BOX 23897 • DOHA • QATAR
TEL: (974) 4463 7111 • FAX: (974) 4466 7053 • E-MAIL: CCCTCCJV@CCC.COM.QA

Ref.: 4857/MY/L054

Date: 15 February, 2015

To: **Water Projects Department**
Kahramaa Main Building, Floor #19
Doha – Qatar

Att.: **Eng. Ahmed Nasser Al-Nasr**
Director, Technical Affairs

Project: **Construction of Mega Reservoirs PRPSs (Packages A, B, C, D & E)**
GTC 626/2014

Subject: **Post Meeting Presentation**

Dear Sir,

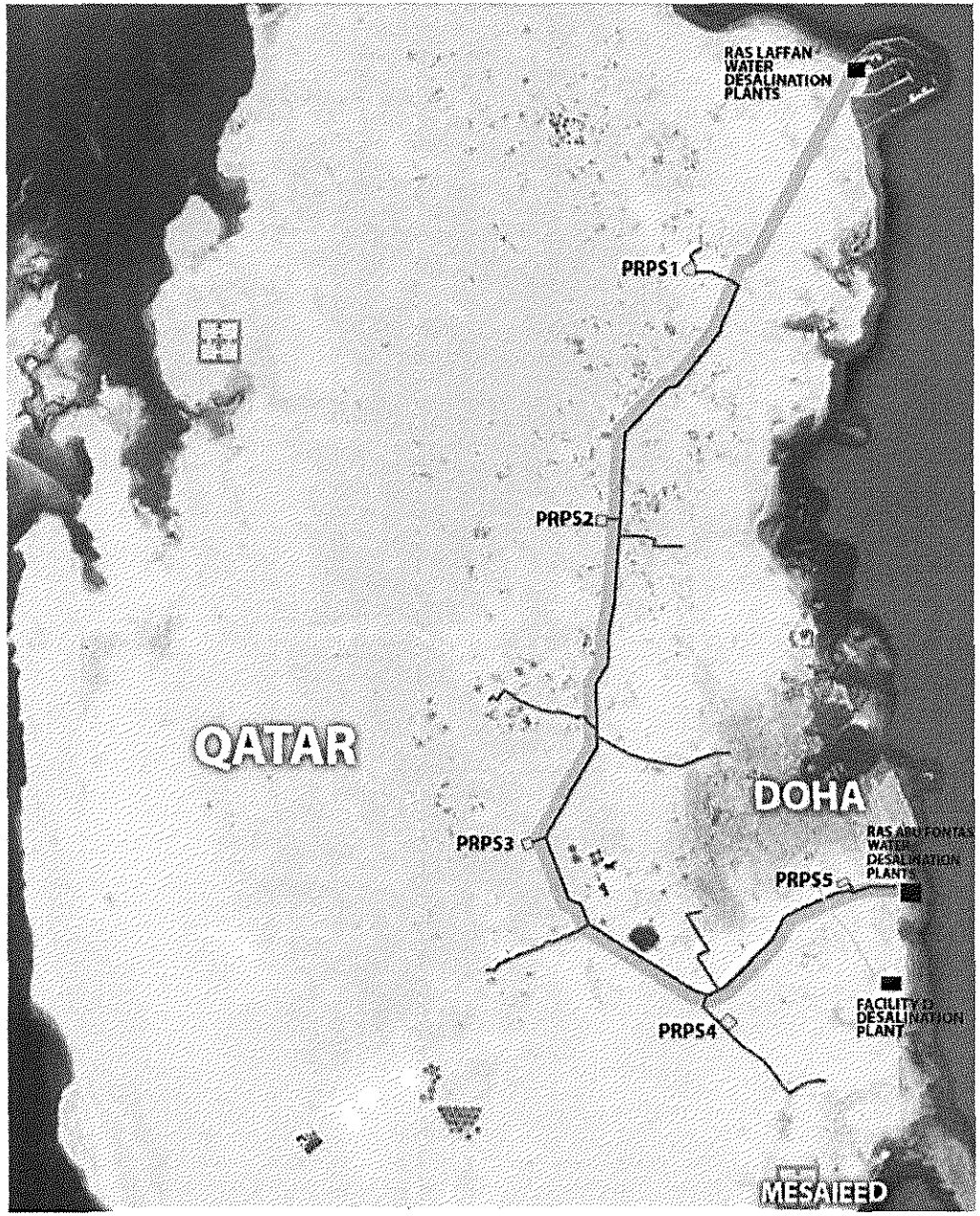
Reference is made to the meeting held at Kahramaa offices on Wednesday 11th February 2015.

Please find attached a brief presentation which demonstrates the JV's available resources and shows its capabilities to handle two PRPs packages simultaneously.

We remain at your disposal should you require any further discussion or clarification.

Yours faithfully,

Mustafa Younis
General Manager



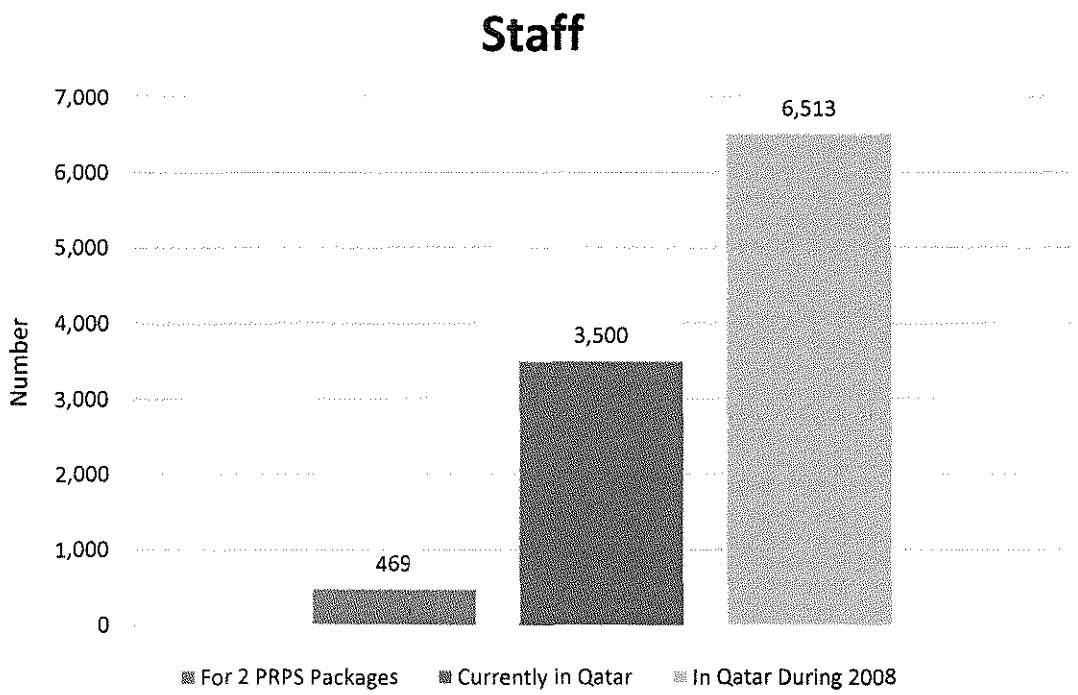
GTC 626/2014

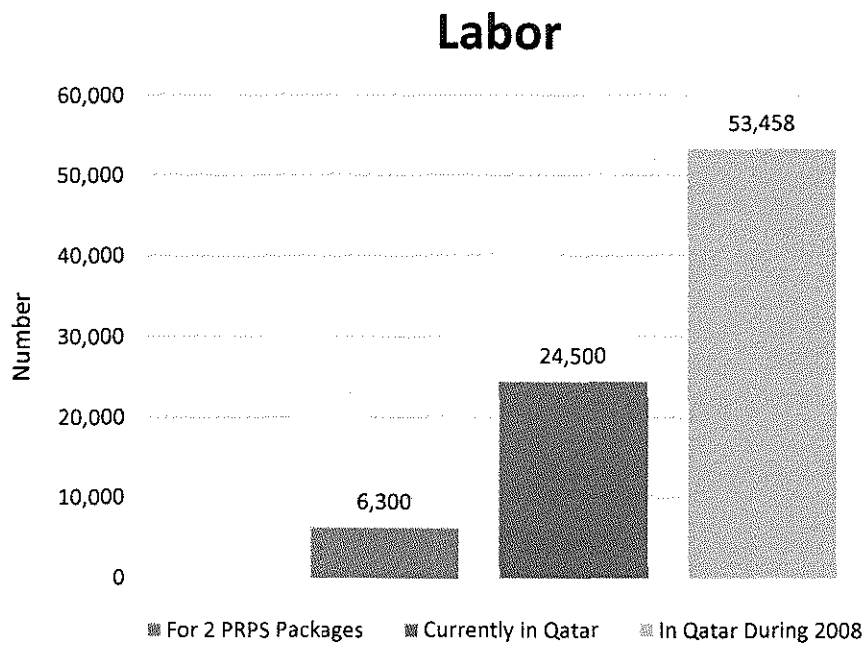
CONSTRUCTION OF MEGA RESERVOIRS PRPs (PACKAGES A, B, C, D & E)

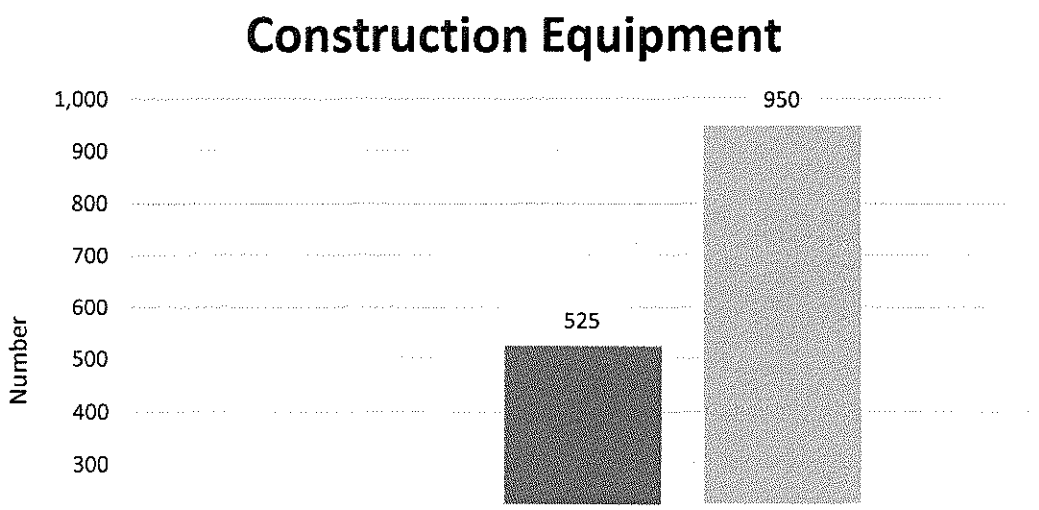
POST TENDER CLARIFICATIO

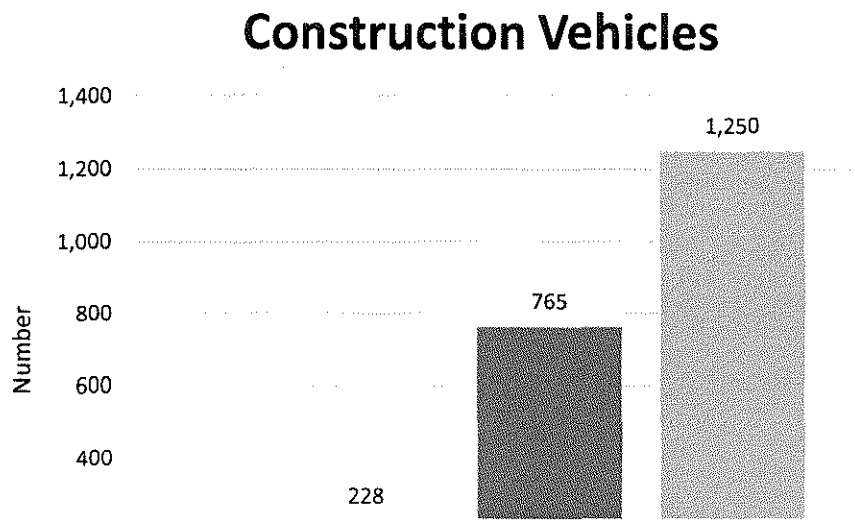
15th February 2015

ities - Resources

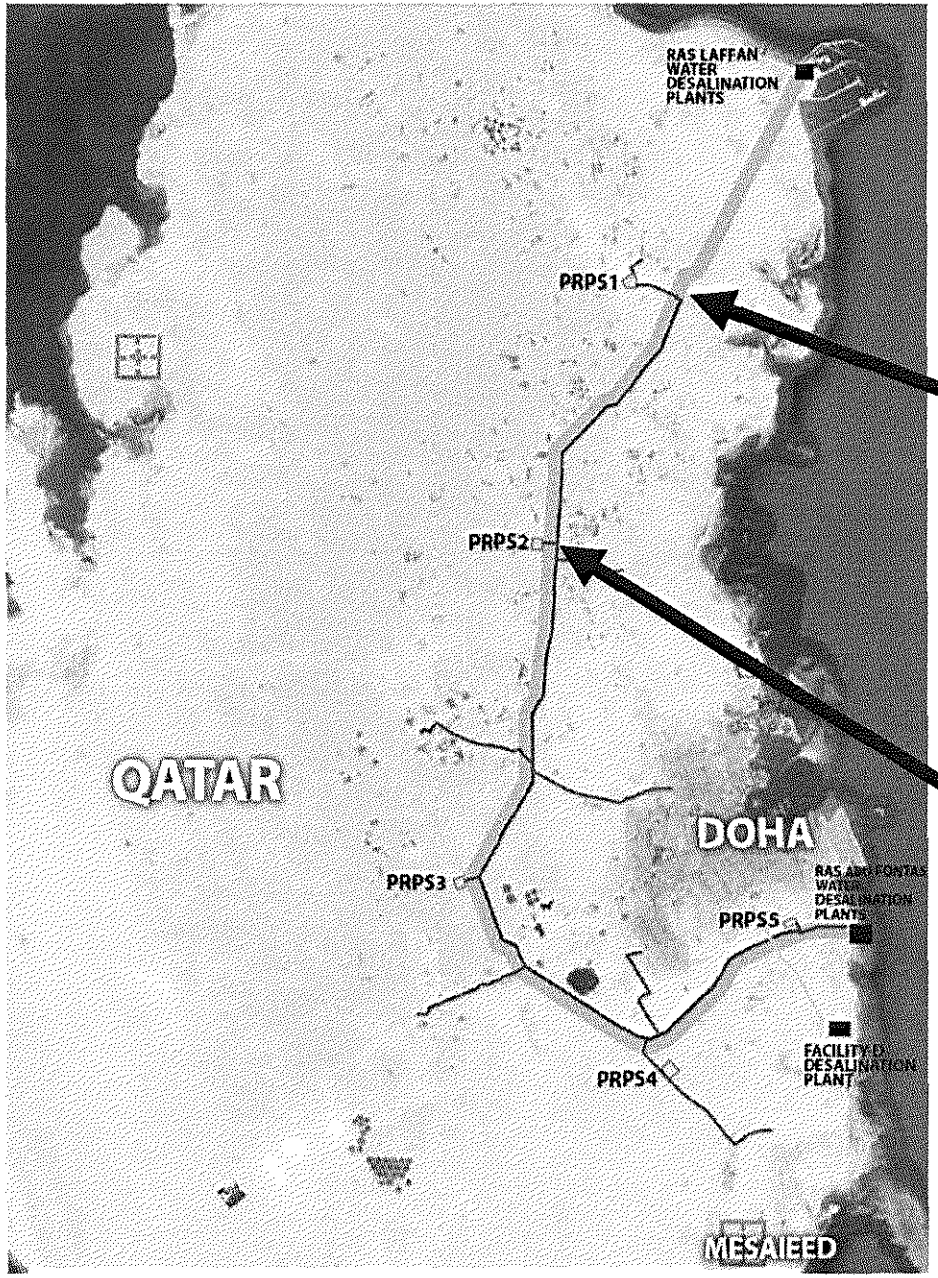








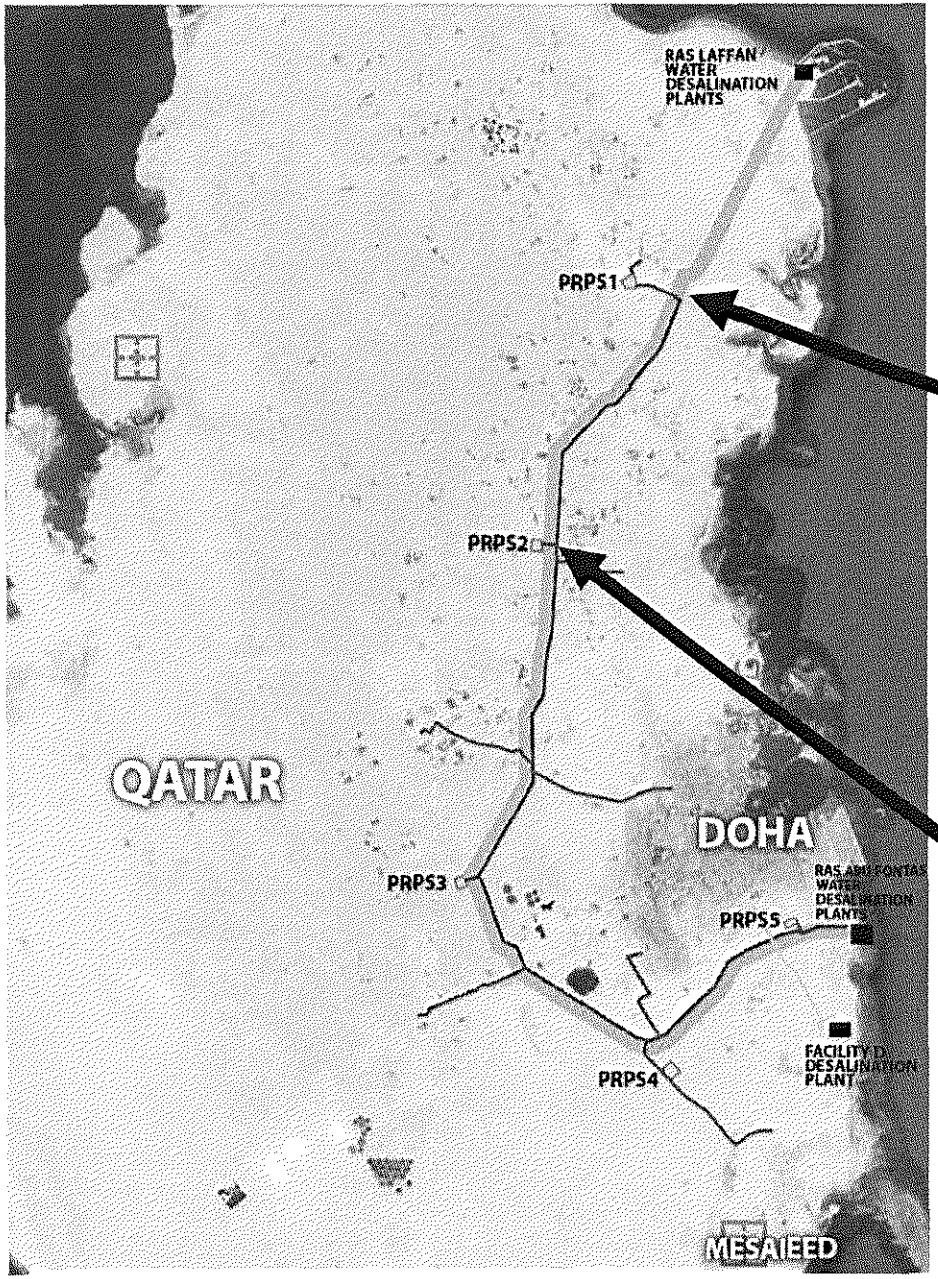
n Facilities & Services



A Main Office will be erected at Site 1, and will ho
Project Director, the Sr. Managers and the Const
Team of Package 1.

A fully fledged site office will be er
Site 2, and will house the Project I
and the Construction Team of Packa

n Facilities & Services



CENTRAL MANAGEMENT OFFICE

- Project Director
- Plant Management
- Admin/Accounts
- Central Controls
- HSE Management
- QA/QC Management
- Central Procurement
- MEP Management

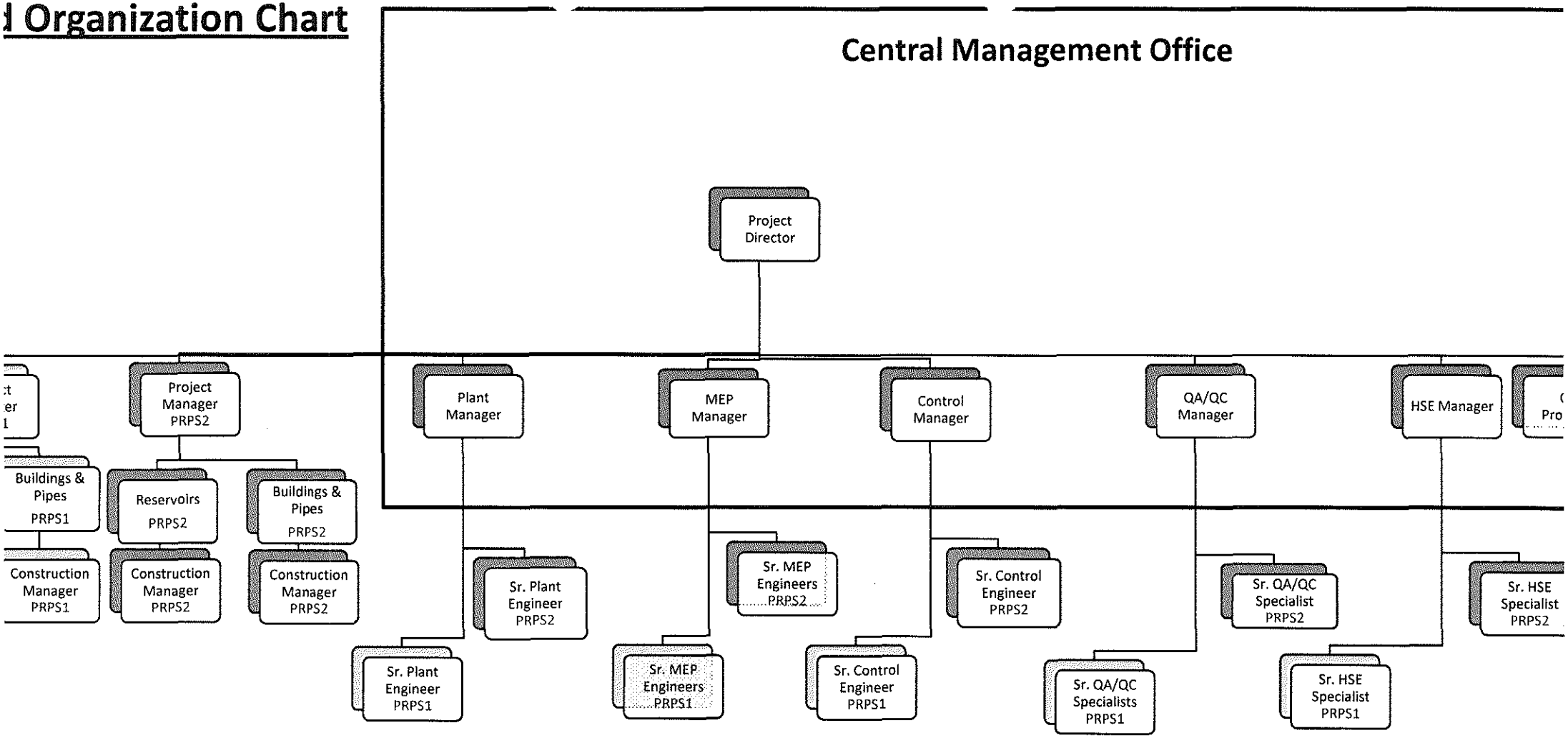
PROJECT OFFICE – SITE 1

- Project Construction Team
- Service yard for plant
- Stores facility
- Rebar Laydown
- Concrete Batching Facilities

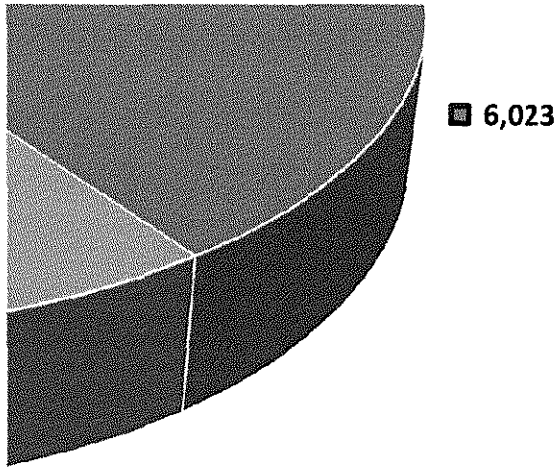
PROJECT OFFICE - SITE 2

- Project Construction Team
- Service yard for plant
- Stores facility
- Rebar Laydown
- Concrete Batching Facilities

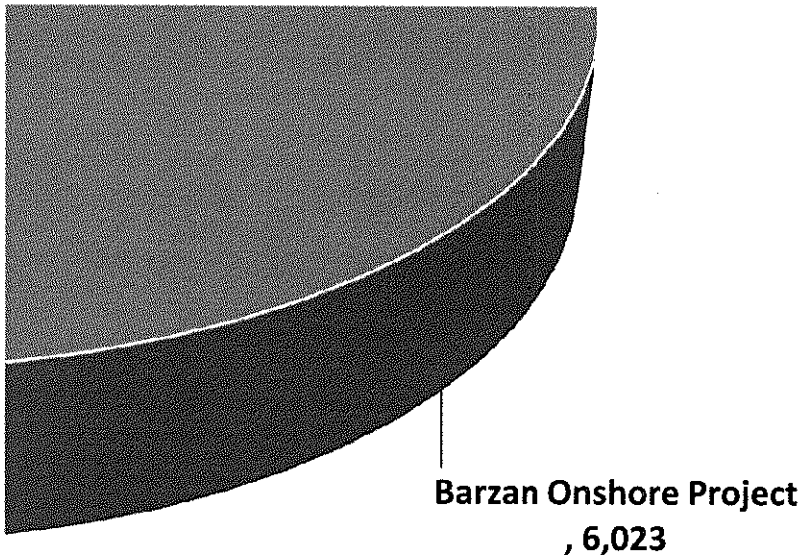
l Organization Chart



The CVs of Key Staff are separately enclosed under Appendix A

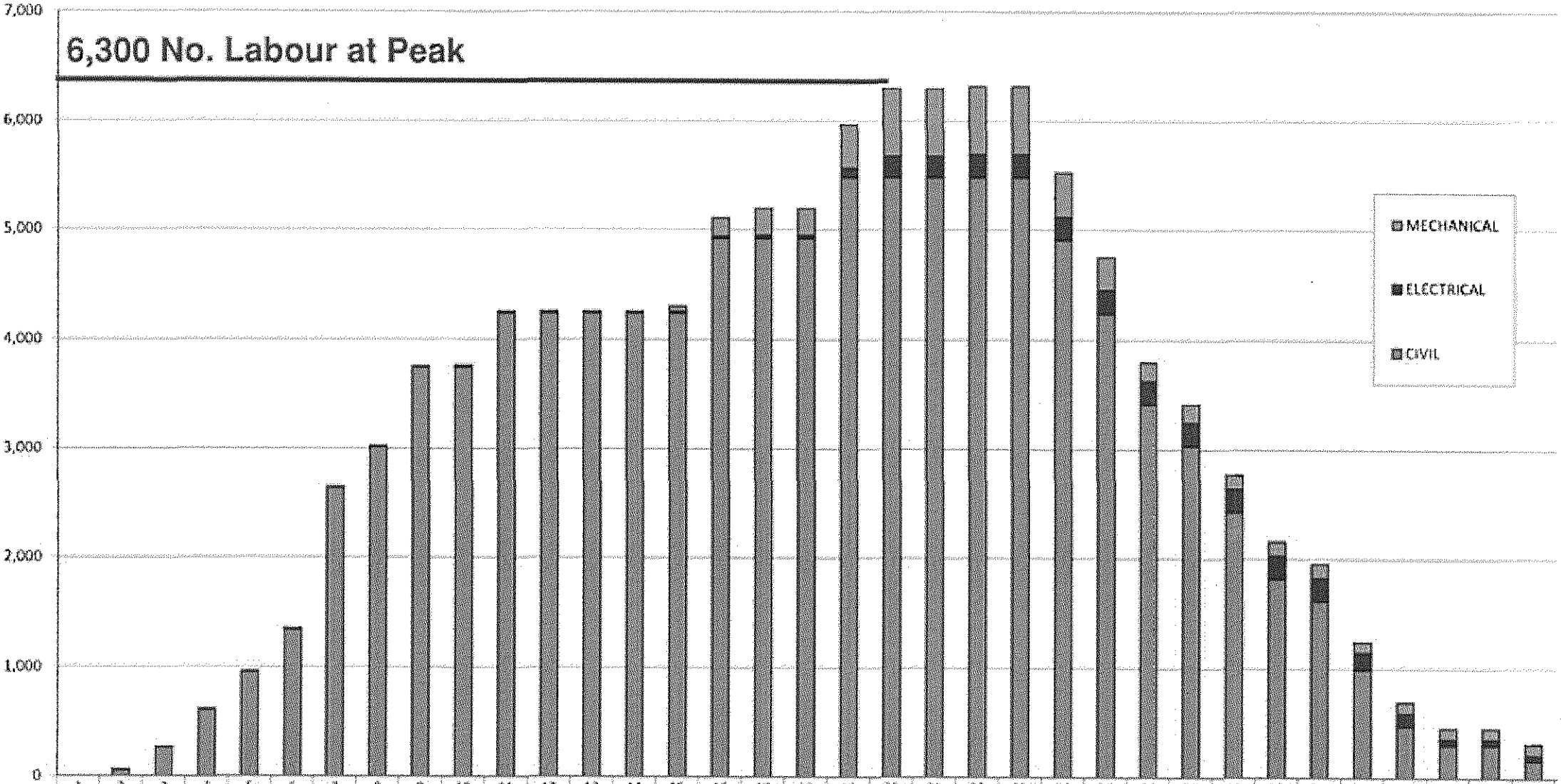


Sidra Medical & Re-search Centre (P.C. 92%)
Barzan Onshore Project (P.C. 92%)
Lusail Multi Purpose Hall (P.C. 99%)



7,100

R Histogram for two PRPS packages

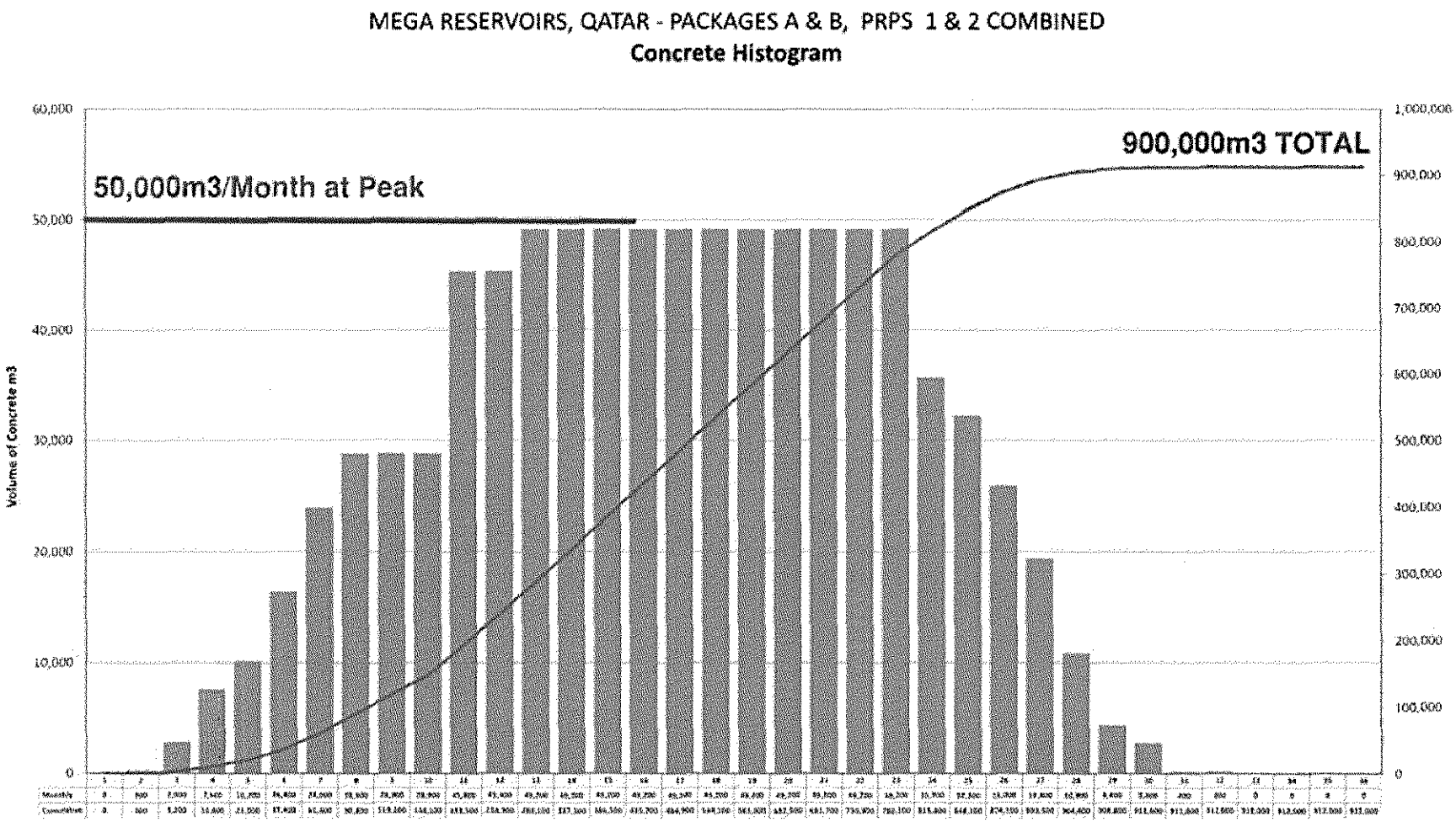


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
HANICAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	170	250	250	400	620	620	620	620	410	300	170	170	130	130	130	100	100	100	100	100
RICAL	0	5	5	5	5	5	5	5	5	10	10	10	10	10	10	20	30	30	80	190	190	210	210	210	210	210	210	210	210	210	150	120	50	50	50
	0	60	270	620	960	1,350	2,640	3,020	3,750	3,750	4,240	4,240	4,240	4,240	4,240	4,920	4,920	4,920	5,490	5,490	5,490	5,490	5,490	4,910	4,240	3,420	3,040	2,430	1,820	1,620	1,000	480	310	310	170
l	0	65	275	625	965	1,355	2,645	3,025	3,755	3,760	4,250	4,250	4,250	4,250	4,300	5,110	5,200	5,200	5,970	6,300	6,300	6,320	6,320	5,530	4,750	3,800	3,420	2,770	2,160	1,960	1,250	700	460	460	320

equirement and Availability

Major Plant	Required at peak for 2 packages	Available in CCC Fleet in Qatar	To join from other CCC Areas	Local Hire from Qatari Market
Cranes				
Tower	12	12		
Mobile	28	21	7	
Crawler	4	2	2	
Heavy Duty Vehicles				
Trailers	12	8		4
Tippers	12	7		5
Water Tankers	6	3		3
Excavation Plant				
Excavators	48	8	20	20
Dozers	4	3		1
Loaders	4	2	2	
Civil Engineering Equipment				
Batching Plants	4	4		
Concrete Transit Mixers, 8m3 Cap	20	11	9	
Concrete Pumps, 90m3	4	2	2	

e Strategy



e (1) No. 120m3/hr. (primary) & One (1) No. 90m3/hr. (secondary) batching plants will be set up at each Reservoi

combination will comfortably deliver over 2,000m3 per day to meet peak production

our (4) plant items are in country and available

lix A – Key Staff and CVs

#	Position	Proposed Candidate
	Central Management Office	
1	Project Director	Anan Al Amad
2	Control Manager	Venkatramanan Kumar
3	HSE Manager	Lawrence Kornas
4	QA/QC Manager	Mohammad Shannak
5	Plant Manager	Yasser Nassar
6	MEP Manager	Nizar Jizzini
	Project Office - Site 1	
7	Project Manager	George Deeb
8	Construction Manager	Wael Munzer
9	Construction Manager	Wissam Salman
10	Sr. Control Engineer	Abdelghani Balbali
11	Sr. HSE Specialist	Erasmus Visser
12	Sr. QA/QC Specialist	Rolando Mendez
13	Sr. Plant Engineer	Rikad Saadi
14	Sr. Mechanical Engineer	Ayman Nasser
15	Sr. Electrical Engineer	Bassem Khalil
	Project Office - Site 2	
16	Project Manager	Bassam Haj Ali
17	Construction Manager	Omar Olabi
18	Construction Manager	Youssef Hazzouri
19	Sr. Control Engineer	Ziad Qabbani
20	Sr. HSE Specialist	Abdelkarim Kayyali

SECTION 21: MINUTES OF PRE AWARD MEETING

KAHRAMAA كهرماء

المؤسسة العامة القطرية للكهرباء والماء

Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS الشؤون الفنية

TELEFAX MESSAGE	DATE: 6 /04/2015	TOTAL PAGES: 1+9
To: M/s Consolidated Contracting Group (CCC) & Teyseer Contracting Co. JV		Fax : 44667053
For the Attention of: General Manager		Our Ref.: TW/TWM/FX/15/ 586

PROJECT: GTC 626/2014 - (PACKAGE A)
CONSTRUCTION OF MEGA RESERVOIR PRPS 1 – UMM BIRKA

SUBJECT: KICK OFF MINUTES OF MEETING

With reference to the above mentioned subject, please find attached hard copy of the Kick-off Minutes of meeting held on 30th March 2015, for your review and signature.

Further, you are kindly requested to return the signed and stamped original MoM to Kahramaa's Water Project Department within two days from the receiving date of this letter.

This is for your information and necessary action.

Regards,

MOHAMMED SALEM AL MANSOORI
MANAGER, WATER PROJECTS DEPT.

CC: TWM, File, PMC

FAXED
DATE: 7.4.2015

Disclaimer: this fax and any attachments may contain information which is confidential. They should not be distributed. Disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this fax, any attachments, and copies, please notify the sender by e-mail or fax or telephone. Confidentiality is not waived or lost by mistaken communication

Tele: (974) 44845321 - Fax: (974) 44845353
P O BOX 41, DOHA - QATAR.

تليفون : 44845321 (974) – فاكس : 44845353
ص ب : 41 الدوحة – قطر

TÜV SÜD

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KAHRAMAA كهرماء

المؤسسة العامة القطرية للكهرباء والماء

Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS
WATER PROJECTS DEPARTMENT
Tel.: 4484 5317 – Fax No.: 4484 5353

Venue: Kahramaa Bldg. No.1, 17th Floor, Conference Room **No. of Pages: 8**

Date: 30th March 2015 **Time: 09:00 AM**

Construction of Mega Reservoir PRPSs (Package A)-Umm Birka GTC 626/2014A

KICK-OFF MEETING

No.	Attendees	Designation	Contacts
	KAHRAMAA		
1.	Eng. Fawzi Ababneh	Project Manager-PRPSs	fababneh@km.com.qa
	PMC – Energoprojekt Entel Ltd.		
1.	Mr. Darko Jovicic	Project Manager	mob. 55823527 djovicic@ep-entel.com
2.	Mr. Mladen Stojcevic	Project Engineer	mob. 55526764 mstojcevic@ep-entel.com
3.	Mr. Aslam Ansari	Project Control Engineer	mob. 55996889 aansari@ep-entel.com
4.	Mr. Asif Khan	HSE Engineer	mob. 50364140 akhan@ep-entel.com
	Hyder Consulting – Detailed Design and Site Supervision Consultant (DDSSC)		
1.	Mr. Badie AlTimimi	Chief Resident Engineer	mob. 66 29 6551 Badie.AlTimimi@hyderconsulting.com
2.	Ms. Helen Bali	Project Manager	mob. 33751748 Helen.bali@hyderconsulting.com
	Consolidated Contracting Group (CCC) & Teyseer Contracting Co. JV		
1.	Mr. Imad Beirouty	Area Plant Manager	ibeirouty@ccc.com.qa
2.	Mr. George Dib	Project Manager	gdib@ccc.com.qa
3.	Mr. Wael Munzer	Contract Manager	wmunzer@ccc.com.qa
4.	Mr. Mustafa Younis	General Manager	mustafay@ccc.com.qa
5.	Mr. Anan Al-Amad	Project Director	aalamad@ccc.com.qa
6.	Mr. David Hancock	Senior Project Coordinator	dahancock@ccc.gr
7.	Mr. Bassam Hajj Ali	Project Manager	bali@@ccc.com.qa
8.	Mr. Rabih N. El Rouwadi	Project Manager	rrouwadi@ccc.com.qa
9.	Mr. Talal M Hanna	HSE Manager	tmhanna@ccc.com.qa

Distribution: All Attendees; File.

S.No.	Description	Action/ Reference
1.	**Introduction**	
1.1	Kahramaa welcomed the attendees and informed that this kick-off meeting is held to prepare all the parties for the prompt start of the projects.	Info
1.2	All the team members attending the meeting were introduced by their respective organization. Kahramaa (KM): introduced as the Client. Energoprojekt Entel: introduced as the Project Management Consultant (PMC). Hyder: Introduced as the Detailed Design and Site Supervision Consultant (DDSSC) M/s Consolidated Contracting Group (CCC) & Teyseer Contracting Co. JV introduced as the Contractor.	Info
2.	**Contract Value:**	
2.1	Contract GTC 626/2014A Contract Price (Before Currency Adjustment): **QAR 2,126,460,600.00** Final Contract Price (After Currency Adjustment): **QAR 2,097,322,626.32** Effective Date of Contract (EDC): **05th April 2015** Contract Completion Date (CCD): **04th April 2018** Milestone 1: **04th April 2016** Milestone 2: **04th January 2017** Milestone 3: **04th March 2018** Milestone 4: **04th March 2018** Warranty period: **2 years from TOC**	Contract documents /Info
2.2	**Advance payment** of 10% will be paid in accordance with Appendix B of the Tender Document. Advance payment guarantee form has been emailed to Contractor by PMC on 24th March 2015.	Info/ App.B
3.	**Contract Milestones:**	
3.1	All the works shall be executed, completed and handed over to Kahramaa within **thirty six (36) months from the Effective Date of Contract,** in accordance with the following Milestone dates: **Milestone 1: Bypass Pipeline:** **Within twelve (12) months of the Effective Date of Contract** the Contractor shall complete the bypass pipeline between the incoming Corridor Main and the Transmission delivery Main SS1A and SS1B, including installation of valves and construction of valve chamber to allow water to be passed into service.	Info/ App.A

S.No.	Description	Action/ Reference
	Milestone 2 – Reservoir 1: **Within twenty one (21) months of the Effective Date of Contract,** the Contractor shall complete the construction of reservoir number 1 ready for hydrostatic testing including all concrete work, internal finishes, pipework installation such that the reservoir is ready to receive water for testing. **Milestone 3 – Pumping Station Completion** **Within thirty five (35) months of the Effective Date of Contract,** the Contractor shall complete the installation, testing and commissioning of the pumps in the Main Pumping Station excluding the 30 days Reliability and Performance tests including all the electrical and mechanical installation fully functional for automatic operation. **Milestone 4 – Reservoir Completion** **Within thirty five (35) months of the Effective Date of Contract,** the Contractor shall complete the construction, testing and commissioning of all reservoirs including testing and completion of all connecting pipework.	
3.2	The Warranty Period: Two years from the Taking Over Certificate.	Info
4.	**Scope of Works**	
4.1	The scope of this Contract is to construct, install and complete the reservoirs, pumping stations, pipework, mechanical, electrical, ICA, civil, structural, architectural and building work for the complete PRPS facility at Umm Birka. The site is within an existing quarry. However excavation will be required to achieve the required formation levels. The Works shall include, but shall not be limited to, the following: 1. Site Establishment; 2. All temporary works including design; 3. Construction of reinforced concrete reservoirs and associated valve chambers and associated leak detection systems. 4. Excavation backfilling and construction of pipelines, cable ducts, chambers; 5. Supply and installation of carbon steel and ductile iron pipes, valves and fittings including all coating, wrapping and jointing materials, thrust restraint; 6. Connection to existing pipelines constructed by others; 7. Construction of reinforced concrete pumping stations, guard houses, control room, electrical sub-stations, transformer buildings, generator buildings, workshop, chlorination building, water testing facility instrumentation kiosk; 8. Preparation of shop drawings, procurement, installation, testing and commissioning of all mechanical, electrical, instrumentation and control plant including, but not limited to, pumps, motors, cables, control panels, generators, transformers, switchgear, surge vessels, chlorine storage and dosing equipment, fuel tanks, pumping station pipework, lifting equipment, SCADA	Info/ App.A

S.No.	Description	Action/ Reference
	system; 9. Construction of all civil works associated with mechanical, electrical, instrumentation, control and automation, including foundations and supports; 10. Design, supply and install all the metal works to include but not limited to platforms handrails, access ladder, access covers/grating/open mesh, safety chains, steel pipe support, step irons, and fixing to the concrete; 11. Perform surge and transient analysis study and detailing of surge suppression system based on approved selected pumps and equipment's for the complete piping system; 12. Construction of reinforced concrete lined drainage lagoons; 13. Backfilling of excavated areas using material stockpiled on Site by others or using selected excavated material; 14. Testing, cleaning, sterilizing of the Works; 15. Supply of electrically driven vehicles for site use including all required recharging facilities; 16. Internal and external roads to provide access to, within and around the Site, including parking areas, turning and access areas, tanker filling station, signage and markings; 17. Hard and soft landscaping including planting and irrigation; 18. Site boundary wall including access gates, barrier arms, security; 19. Maintenance of temporary Site boundary fence erected by others until the date of the of the Taking Over Certificate (TOC) for the whole of the works. Dismantling and removal of the Site boundary fence after the date of the TOC.	
5.	**Final Letter of Award**	
5.1	**Provisional Letter of Award (LOA)** was issued by Kahramaa on 19th March 2015 and **Letter of Confirmation** was sent by Contractor on 22nd March 2015.	Info
5.2	Contractor submitted on 29th March 2015 for Kahramaa review final schedule of prices (Contract BOQ) adjusted by the Currency Adjustment Formula in accordance with Tender Document, Appendix B, Section 1.32. Confirmation letter from KM side to be submitted by 31st March 2015.	Info
5.3	**Final Letter of Award (FLOA)** including Contract Price adjusted by the Currency Adjustment Formula shall be issued after Kahramaa approval of the final schedule of prices mentioned in above item 5.2.	Info
6.	**Performance Bond and Insurance**	
6.1	A bank guarantee shall be provided or endorsed by a bank operating in Doha, Qatar, under Qatar Central Bank. It shall be in the specific form set out in Appendix D, and shall be valid for a period of not less than ninety (90) days after the date of issue of the Final Completion Certificate (end of Warranty Period).	CTJ

S.No.	Description	Action/ Reference
6.2	Insurance documents shall be provided in accordance with Appendix C of Tender Document.	CTJ
6.3	Performance bond and insurance documents including advance payment guarantee to be submitted within one week.	CTJ
7.	**Execution Program**	
7.1	Project execution program for the project execution period is required to be prepared by the Contractor in accordance with Clause 9.4 of the General Terms and Conditions and Appendix D requirements and shall be submitted to KM TW, for review and approval, within 14 days from the date of the Provisional LOA. It was agreed by all the parties to meet on 4th April 2015 with PMC Planning Engineer to explain requirements for the Execution Programme.	CTJ
7.2	Execution program is required to be submitted in Primavera software (P6).	CTJ
8.	**Contract Documents**	
8.1	Contract Documents shall be finalized **upon receiving and approval of the required performance bond, insurances, attested copy of signatory and the execution program.**	Info
9.	**Contractor's key personnel**	
9.1	Contractor shall submit organization chart with CV's of all the key personnel for Kahramaa review and approval by the first week of April 2015. If there is any replacement of any key personal to the ones submitted via Contractor's technical submittal, this must be highlighted by Contractor and shall be subject of Kahramaa written approval. Kahramaa advised that engineer(s) with local Qatari experience should be within key personnel.	CTJ
9.2	Approved Contractor's key personnel shall not be removed or relocated from the positions indicated or replaced without prior written approval by Kahramaa.	Info
10.	**Subcontractors and Suppliers:**	
10.1	Contractor shall provide list of material and equipment suppliers and subcontractors for all the different project activities for Kahramaa review and approval. It is also required to submit the country of origin certificate for such proposed materials and equipment.	CTJ
10.2	Contractor shall submit Material Submittals for Kahramaa review/ approval for all materials/equipment prior to their use on the site.	CTJ
10.3	Contractor is reminded that Kahramaa has the right to choose their preferred supplier for the pumps, Master PLC, SCADA HMI and steel	CTJ

S.No.	Description	Action/ Reference
	pipes from any of the suppliers in the Vendor list, irrespective of which preferred supplier is presented by the Contractor. This decision shall be at Kahramaa sole discretion as mentioned in Tender Circulars. PMN: KM informed that Main Pumps as mentioned in Bill No. 1 shall be supplied by M/s: Torishima.	
11.	**Meetings and Progress Reports**	
11.1	Weekly (by-weekly) progress meetings shall be convened in KM building in initial stage of the project and will be shifted to site once the site office is established.	Info
11.2	The first weekly meeting will be held on 13th April 2015.	Info
11.3	Monthly progress meeting shall be in Kahramaa Water Projects offices or as directed by KM TW and shall include higher management from KM and Contractor.	Info
11.4	The following progress reports shall be submitted in accordance with Tender document, Appendix D requirements: 1. Daily reports, 2. Weekly progress reports, 3. Monthly progress reports.	Info
12.	**Site mobilization**	
12.1	Contractor is required to propose the locations and provide detailed layouts for site offices in accordance with Tender requirements for Kahramaa review and approval by 13th April 2015. Details shall indicate all necessary utilities, Contractor's own temporary facilities, etc. DDSSC will advise approximate locations within the PRPS site.	CTJ
12.2	Project signboard layout shall be submitted for Kahramaa approval on 13th April 2015. and shall be erected by 5th May 2015.	CTJ
12.3	Coordination with all concerned authorities shall be the responsibility of the Contractor.	CTJ
13.	**Permits from Authorities**	
13.1	Current status of permits will be provided by and discuss with DDSSC (M/s Hyder) on 2nd April 2015.	Info
14.	**Safety**	
14.1	Kahramaa advised Contractor to maintain the highest level of safety standards on this project and to fully comply with Kahramaa HSE requirements specified in Appendix J.	CTJ
14.2	Contractor was also advised to submit CV of proposed HSE Manager/	CTJ

S.No.	Description	Action/ Reference
	Engineers and QA/QC Manager/ Engineers for Kahramaa review and approval in the project initial stage, prior to start of any site activities and no later than 13th April 2015.	
15.	**Contractors urgent submittals (Quality Plan, HSE Plan, Maintenance Plan, Inspection and Test Plan and Testing Laboratory)**	
15.1	Contractor to submit during April 2015 the Quality Plan, HSE Plan, Maintenance Plan, Inspection and Test Plan and Testing Laboratory proposal.	CTJ
16.	**Invoicing**	
16.1	All invoices shall be submitted as per a format agreed by Kahramaa and forwarded to: **Manager, Water Projects** **Qatar General Electricity and Water Corporation (KAHRAMAA)** **19th floor , Al Dafna, Kahramaa Building No.1** **Doha, Qatar**	Info
17.	**Project procedures and Kahramaa standard forms:**	
17.1	KM TW handed over to the Contractor at the Pre-Award Meeting soft copy of the Communication Procedure and Kahramaa Standard Forms to be used in the Contract. Revised Interim valuation Form (TW-P7-F2) has been handed over to Contractor at the Kick-off Meeting.	Info
17.2	The project will be under internal and external surveillance auditing every 6 months, so it is expected that all parties should abide with all Kahramaa standard forms and procedures.	Info
18.	**Project info web site, time lapse/live cameras and CEMS**	
18.1	KM informed that project info web site was developed specifically for the Water Mega Reservoir project and the same will be regularly updated by the PMC. The web site address is www.watermegareservoirs.qa	Info
18.2	KM advised that the PMC will be arranging for time lapse and live web cameras to be installed to monitor the works. For this purpose, Contractor is required to provide tower type scaffolding structures and dedicated internet connection in accordance with Tender Document/Circulars.	Info
18.3	Internet based Correspondence Exchange Monitoring Software (CEMS) will be used for project document electronic submission and tracking. CEMS presentation to Contractor's document controllers will be organized during this week.	CTJ
18.4	Contractor has been advised that all correspondence/ submittals shall be issued using the CEMS and strictly in accordance with Project Communication Procedure mentioned in above item 17.1. Also, Contractor has been reminded to provide team member names which should be	CTJ

S.No.	Description	Action/ Reference
	included in CEMS correspondence by the end of this week.	
19.	**Any other issues**	
19.1	KM informed that in addition to PMC, M/s Hyder will be engaged as Detailed Design and Site Supervision Consultant (DDSSC).	Info
19.2	IFC drawings and documents will be issued to Contractor by DDSSC (M/s Hyder) in PDF and AutoCAD format starting from 5th April 2015.	DDSSC
19.3	M/s Consolidated Contracting Group (CCC) & Teyseer Contracting Co. JV informed that Mr. Anan Al-Amad will be Project Director for this Project and Mr. George Dib and Mr. Bassam Hajj Ali will be Project Managers.	Info
19.4	KM TW informed that Eng. Fawzi Ababneh, Project Manager-RPSs will be focal point from KM TW side.	Info
19.5	Contractor has been reminded to submit signed and stamped Pre Award MoM to KM officially by letter.	CTJ
19.6	PMN: Contractor shall appoint KM approved topographic survey company in order to establish temporary bench marks. The benchmarks shall be inspected by M/s Hyder.	CTJ

Water Projects Dept.
Technical Affairs

M/s Consolidated Contracting Group & Teyseer Contracting Co. JV

CONSOLIDATED CONTRACTORS GROUP SAL (Offshore) (CCC) / TEYSEER CONTRACTING COMPANY W.L.L. - JV
WMR PROJECT MANAGEMENT

KAHRAMAA كهرماء

المؤسسة العامة القطرية للكهرباء والماء

Qatar General Electricity & Water Corporation

PROJECT: KAHRAMAA CONTRACTS: GTC 626/2014A
Construction of Mega Reservoir PRPSs (Package A)

SUBJECT: Kick off Meeting with M/s Consolidated Contracting Group (CCC) & Teyseer Contracting Co. JV

VENUE: KAHRAMAA, Water Projects Department, Dafna, Bldg. No.1

ROOM: 17th Floor Meeting Room PLANNED DURATION: 60 minutes

DATE: 30.03.2015. TIME: 9:00 AM

Sl No	NAME	COMPANY - POSITION	E-Mail	PHONE
01	Badie Altimimi	Hyder	badie.altimimi@hyderconsulting.com	66296551
02	Imad Beiruty	CCC-TCC APM	ibeiruty@ccc.com.qa	55509229
03	George Dib	CCC/TCC PM	gdib@ccc.com.qa	55884347
04	Wael Munzer	CCC/TCC CM	wmunzer@ccc.com.qa	55890613
05	Mustafa Yonis	CCC/TCC GM	Mustafa@ccc.com.qa	55832658
06	Anan Al-Amad	CCC/TCC PD	aalamad@ccc.com.qa	33857460 44193500
07	DAVID HANCOCK	CCC/TCC COORDINATOR	dahancock@ccc.gr	+30 695 1975 858
08	Bassam Hajj Ali	CCC/TCC JV PM	bali@ccc.com.qa	00974 55836625
09	Rabih El-Rouwadi	CCC/TCC JV PMM	rrouwadi@ccc.com.qa	00974 55839673
10	T. HANNA	CCC/TCC JV HSE&S Manager	thanna@ccc.com.qa	66849023
11	ASIF KHAN	PMC	akhan@ep-entel.com	50364140
12	ASLAM ANSARI	PMC	aansari@ep-entel.com	55996889
13	MLADEN STOJCANIC	PMC/EPE	mstojcanic@epeam.com	55028669
14	Helen Bali	Hyder	helen.bali@hyderconsulting.com	3375 1748
15	DARKO JOVICIC	PMC/EPE	djovicic@ep-entel.com	55823527
16	Fawzi			
17				
18				
19				
20				