



## BILL OF QUANTITIES

Project Title: **PROPOSED 300 CU.M. REINFORCED CONCRETE GROUND TANKS AT BALUNO & BANDERA-DULIAN FOR DUMALON WATER SYSTEM**

Approved Budget Cost: **Php 16,532,044.52**

Project Duration: **Three Hundred (300) Calendar Days**

P.R. No. \_\_\_\_\_

WORK ITEM/DESCRIPTION		ESTIMATED QUANTITY	UNIT	Unit Cost	Total Amount
SPL - 1	MOBILIZATION/DEMOBILIZATION	1.00	LOT		
SPL - 2	TEMPORARY FACILITIES	2.00	EACH		
SPL - 3	CONSTRUCTION SAFETY & HEALTH PROGRAM	1.00	LOT		
SPL - 4	CONSTRUCTION PROJECT BILLBOARDS/ SIGNAGES	2.00	LOT		
<b>PROPOSED CONSTRUCTION OF 300 CU.M. BANDERA GROUND TANK</b>					
<b>LAYING OF SUPPLY AND DISTRIBUTION PIPES TAPPED AT EXISTING DUMALON PIPELINE TO THE PROPOSED 300 CU.M. GROUND TANK</b>					
SPL - 5	FINAL STAKING/LAYOUTING/LINE & GRADE	72.50	LN.M.		
SPL - 6	CONCRETE CUTTING	20.20	LN.M.		
101(4)a	REMOVAL OF EXISTING CONCRETE PAVEMENT	4.14	SQ.M.		
803(1)a	PIPELINE EXCAVATION (COMMON SOIL)	30.32	CU.M.		
SPL - 7	PIPELINES & APPURTENANCES (100mmØ PVC PIPELINE) W/ PARTIAL BACKFILLING	72.50	LN.M.		
SPL - 8	FITTING OF BENDS (100mmØ x 22.5° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	2.00	BENDS		
SPL - 9	FITTING OF BENDS (100mmØ x 45° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	6.00	BENDS		
SPL - 10	FITTING OF BENDS (100mmØ x 90° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	1.00	BEND		
SPL - 11	HYDRO-TESTING & DISINFECTION WORKS (100mmØ PVC PIPELINE)	72.50	LN.M.		
SPL - 12	PIPELINE FLUSHING (100mmØ PVC PIPELINE)	72.50	LN.M.		
SPL - 13	VALVES/FITTINGS/INTER-CONNECTION WORKS	4.00	ASSY.		
SPL - 14	BACKFILLING & COMPACTION WORKS OF NATIVE MATERIALS	34.08	CU.M.		
311(1)a	PCC PAVEMENT(PLAIN) - CONVENTIONAL METHOD, 230MM THICK	4.14	SQ.M.		
<b>CONSTRUCTION OF 300 CU.M. REINFORCED CONCRETE GROUND TANK</b>					
SPL - 15	CLEARING AND GRUBBING	352.00	SQ.M.		
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	347.36	CU.M.		
404 (2)	REINFORCING STEEL BAR, GRADE 40	17319.67	KGS.		
405	STRUCTURAL CONCRETE CLASS A WITH WATER PROOFING ADMIXTURE	110.46	CU.M.		
SPL - 16	INSTALLATION OF RUBBER TYPE WATER STOPPER FOR EVERY REINFORCED CONCRETE JOINTS	158.40	LN.M.		
1027(1)	CEMENT PLASTER FINISH	573.19	SQ.M.		
1032(1)a	PAINTING WORKS (MASONRY PAINTING)	487.83	SQ.M.		
1032(1)c	PAINTING WORKS (METAL PAINTING) FOR SHED AND G.I. PIPELINE	16.97	SQ.M.		
SPL - 17	SUPPLY, INSTALLATION, TESTING & COMMISSIONING 2 UNITS OF 100mmØ MECHANICAL FLOW METER	2.00	ASSY.		
SPL - 18	SUPPLY, INSTALLATION, TESTING & COMMISSIONING 4 UNITS OF 100mmØ CHECK VALVE	4.00	ASSY.		
SPL - 19	SUPPLY, INSTALLATION, TESTING & COMMISSIONING 2 UNITS OF 100mmØ PRESSURE REDUCING VALVE	2.00	ASSY.		
SPL - 20	VALVES/FITTINGS/APPURTENANCES (SUPPLY LINE, DISTRIBUTION LINE, DRAIN LINE, TANK SENSOR LEVEL & AIR	9.00	ASSY.		
SPL - 21	CONSTRUCTION OF 1.30M X 3.30M CONCRETE VALVE BOX FOR 100mmØ FLOW METER AND ITS APPURTENANCES	2.00	UNITS		
SPL - 22	CONSTRUCTION OF 1.30M X 1.74M CONCRETE VALVE BOX FOR 100mmØ CHECK VALVE	2.00	UNITS		
SPL - 23	CONSTRUCTION OF SHED FOR VALVES AND APPURTENANCES FOR 300 CU.M. GROUND TANK	1.00	LOT		
SPL - 24	PIPELINES & APPURTENANCES (100mmØ G.I. Pipeline) FOR SUPPLY & DISCHARGE LINE OF 300 CU.M. GROUND TANK	22.40	LN.M.		
SPL - 25	LEAK TEST AND DISINFECTION WORKS	1.00	LOT		
SPL - 26	INSTALLATION OF 25mm Ø AIR RELEASE ASSEMBLY (Tapped on 100mmØ PVC Pipeline)	2.00	ASSY.		
SPL - 27	FABRICATION OF TWO (2) STAINLESS LADDER AND TWO (2) SERVICE HOLE COVER	1.00	LOT		
1016(1)a	WATERPROOFING WORKS	242.63	SQ.M.		

CONSTRUCTION OF PERIMETER FENCE AND FABRICATION OF STEEL GATE			
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	23.63	CU.M.
404 (2)	REINFORCING STEEL BAR, GRADE 33	2238.82	KGS.
405	STRUCTURAL CONCRETE CLASS A	19.70	CU.M.
1046	100MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	45.60	SQ.M.
1046	150mm. CHB NON LOAD BEARING (including Reinforcing Steel)	36.24	SQ.M.
1027(1)	CEMENT PLASTER FINISH	143.64	SQ.M.
SPL - 28	CONSTRUCTION/FABRICATION OF GATE, GRILLES AND INTERLINKS FOR PERIMETER FENCE AND SUPPLY/INSTALLATION OF 3.10M X 0.6M PANAFLEX SIGNAGE	1.00	LOT
1032(1)a	PAINTING WORKS (MASONRY PAINTING)	143.64	SQ.M.
1032(1)c	PAINTING WORKS (METAL PAINTING)	46.82	SQ.M.
CONSTRUCTION OF GUARD HOUSE			
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	2.91	CU.M.
404 (2)	REINFORCING STEEL BAR, GRADE 33	571.43	KGS.
405	STRUCTURAL CONCRETE CLASS A	3.38	CU.M.
1046	100MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	16.08	SQ.M.
1046	150MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	2.69	SQ.M.
1027(1)	CEMENT PLASTER FINISH	50.40	SQ.M.
SPL - 29	SUPPLY AND INSTALLATION OF 0.7M X 1.2M JALOUSIE TYPE WINDOW (GUARD HOUSE)	2.00	UNIT
SPL - 30	CONSTRUCTION/FABRICATION OF WINDOW GRILLES (GUARD HOUSE)	1.00	LOT
1032(1)a	PAINTING WORKS (MASONRY PAINTING)	50.40	SQ.M.
1032(1)b	PAINTING WORKS (WOOD) - ACRYLIC SOLVENT BASED	18.25	SQ.M.
1032(1)c	PAINTING WORKS (METAL PAINTING)	1.70	SQ.M.
1016(1)a	WATERPROOFING WORKS (CEMENTITIOUS TYPE WATERPROOFING MEMBRANE)	7.80	SQ.M.
SPL - 31	SUPPLY AND INSTALLATION OF WOODEN DOOR WITH DOOR KNOB AND ACCESSORIES (GUARD HOUSE)	1.00	UNIT
SPL - 32	PLUMBING WORKS (GUARD HOUSE)	1.00	LOT
SPL - 33	FABRICATION OF WOODEN DRAWER AND CABINET (GUARD HOUSE)	1.00	UNIT
CONSTRUCTION OF OPERATOR'S ROOM WITH RESTROOM & SEPTIC TANK			
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	10.13	CU.M.
404 (2)	REINFORCING STEEL BAR, GRADE 33	946.73	KGS.
405	STRUCTURAL CONCRETE CLASS A	8.01	CU.M.
1046	100MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	28.51	SQ.M.
1046	150MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	5.46	SQ.M.
1027(1)	CEMENT PLASTER FINISH	78.26	SQ.M.
SPL - 34	SUPPLY AND INSTALLATION OF 0.8M X 1.2M & 0.5M X 0.5M JALOUSIE TYPE WINDOW (OPERATOR'S ROOM & RESTROOM)	3.00	UNITS
SPL - 35	CONSTRUCTION/FABRICATION OF WINDOW GRILLES (OPERATOR'S ROOM & RESTROOM)	1.00	LOT
1032(1)a	PAINTING WORKS (MASONRY PAINTING)	78.26	SQ.M.
1032(1)b	PAINTING WORKS (WOOD) - ACRYLIC SOLVENT BASED	18.25	SQ.M.
1032(1)c	PAINTING WORKS (METAL PAINTING)	3.29	SQ.M.
1018	UNGLAZED TILES (FOR OPERATOR'S ROOM & RESTROOM)	16.80	SQ.M.
1016(1)a	WATERPROOFING WORKS (CEMENTITIOUS TYPE WATERPROOFING MEMBRANE)	16.20	SQ.M.
SPL - 36	SUPPLY AND INSTALLATION OF DOORS WITH DOOR KNOB AND ACCESSORIES (OPERATOR'S ROOM & RESTROOM)	2.00	UNITS
SPL - 37	PLUMBING WORKS (OPERATOR'S ROOM & RESTROOM)	1.00	LOT
SPL - 38	FABRICATION OF WOODEN DRAWER AND CABINET (OPERATOR'S ROOM)	1.00	UNIT
CONSTRUCTION OF DRIVE WAY, GUTTER, GROUTED RIPRAP AND STORM DRAINAGE			
311(1)a	PCC PAVEMENT(PLAIN) - CONVENTIONAL METHOD, 200MM THICK	66.00	SQ.M.
SPL - 39	CONSTRUCTION OF CONCRETE FABER AND GUTTER	1.00	LOT
SPL - 40	STORM DRAINAGE	1.00	LOT
505(5)a	GROUTED RIPRAP (CLASS A)	15.92	CU.M.
ELECTRICAL WORKS			
SPL - 41	SUPPLY & INSTALLATION OF POWER, LIGHTING FIXTURES, CONVENIENCE OUTLETS, PANEL BOARD AND ACCESSORIES	1.00	LOT
PROPOSED CONSTRUCTION OF 300 CU.M. BALUNO GROUND TANK			
LAYING OF SUPPLY AND DISTRIBUTION PIPES TAPPED AT EXISTING DUMALON PIPELINE TO THE PROPOSED 300 CU.M. GROUND TANK			
SPL - 42	FINAL STAKING/LAYOUTING/LINE & GRADE	275.05	LN.M.
SPL - 43	CONCRETE CUTTING	11.74	LN.M.
101(4)a	REMOVAL OF EXISTING CONCRETE PAVEMENT	2.41	SQ.M.

103(1)a	PIPELINE EXCAVATION (COMMON SOIL)	115.03	CU.M.		
SPL - 44	PIPELINES & APPURTENANCES (100mmØ PVC PIPELINE) W/ PARTIAL BACKFILLING	275.05	LN.M.		
SPL - 45	FITTING OF BENDS (100mmØ x 11.25° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	4.00	BENDS		
SPL - 46	FITTING OF BENDS (100mmØ x 22.5° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	4.00	BENDS		
SPL - 47	FITTING OF BENDS (100mmØ x 45° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	9.00	BENDS		
SPL - 48	FITTING OF BENDS (100mmØ x 90° PVC Bend) W/ CONCRETE THRUST BLOCK & W/ PARTIAL BACKFILLING	6.00	BENDS		
SPL - 49	HYDRO-TESTING & DISINFECTION WORKS (100mmØ PVC PIPELINE)	275.05	LN.M.		
SPL - 50	PIPELINE FLUSHING (100mmØ PVC PIPELINE)	275.05	LN.M.		
SPL - 51	VALVES/FITTINGS/INTER-CONNECTION WORKS	4.00	ASSY.		
SPL - 52	BACKFILLING & COMPACTION WORKS OF NATIVE MATERIALS	129.28	CU.M.		
311(1)a	PCC PAVEMENT(PLAIN) - CONVENTIONAL METHOD, 230MM THICK	2.41	SQ.M.		
<b>CONSTRUCTION OF 300 CU.M. REINFORCED CONCRETE GROUND TANK</b>					
SPL - 53	CLEARING AND GRUBBING	352.00	SQ.M.		
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	200.93	CU.M.		
404 (2)	REINFORCING STEEL BAR, GRADE 40	17319.67	KGS.		
405	STRUCTURAL CONCRETE CLASS A WITH WATER PROOFING ADMIXTURE	110.46	CU.M.		
SPL - 54	INSTALLATION OF RUBBER TYPE WATER STOPPER FOR EVERY REINFORCED CONCRETE JOINTS	158.40	LN.M.		
1027(1)	CEMENT PLASTER FINISH	573.19	SQ.M.		
1032(1)a	PAINTING WORKS (MASONRY PAINTING)	487.83	SQ.M.		
1032(1)c	PAINTING WORKS (METAL PAINTING) FOR SHED AND G.I. PIPELINE	7.04	SQ.M.		
SPL - 55	SUPPLY, INSTALLATION, TESTING & COMMISSIONING 2 UNITS OF 100mmØ MECHANICAL FLOW METER	2.00	ASSY.		
SPL - 56	SUPPLY, INSTALLATION, TESTING & COMMISSIONING 2 UNITS OF 100mmØ CHECK VALVE	4.00	ASSY.		
SPL - 57	SUPPLY, INSTALLATION, TESTING & COMMISSIONING 2 UNITS OF 100mmØ PRESSURE REDUCING VALVE	2.00	ASSY.		
SPL - 58	VALVES/FITTINGS/APPURTENANCES (SUPPLY LINE, DISTRIBUTION LINE, DRAIN LINE, TANK SENSOR LEVEL & AIR	9.00	ASSY.		
SPL - 59	CONSTRUCTION OF 1.30M X 3.30M CONCRETE VALVE BOX FOR 100mmØ FLOW METER AND ITS APPURTENANCES	2.00	UNITS		
SPL - 61	CONSTRUCTION OF SHED FOR VALVES AND APPURTENANCES FOR 300 CU.M. GROUND TANK	1.00	LOT		
SPL - 62	PIPELINES & APPURTENANCES (100mmØ G.I. Pipeline) FOR SUPPLY & DISCHARGE LINE OF 300 CU.M. GROUND TANK	22.40	LN.M.		
SPL - 63	LEAK TEST AND DISINFECTION WORKS	1.00	LOT		
SPL - 64	INSTALLATION OF 25mm Ø AIR RELEASE ASSEMBLY (Tapped on 100mmØ PVC Pipeline)	2.00	ASSY.		
SPL - 65	FABRICATION OF TWO (2) STAINLESS LADDER AND TWO (2) SERVICE HOLE COVER	1.00	LOT		
1016(1)a	WATERPROOFING WORKS	242.63	SQ.M.		
<b>CONSTRUCTION OF PERIMETER FENCE AND FABRICATION OF STEEL GATE</b>					
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	23.63	CU.M.		
404 (2)	REINFORCING STEEL BAR, GRADE 33	2238.82	KGS.		
405	STRUCTURAL CONCRETE CLASS A	19.70	CU.M.		
1046	100MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	47.41	SQ.M.		
1046	150MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	36.24	SQ.M.		
1027(1)	CEMENT PLASTER FINISH	147.26	SQ.M.		
SPL - 66	CONSTRUCTION/FABRICATION OF GATE, GRILLES AND INTERLINKS FOR PERIMETER FENCE AND	1.00	LOT		
1032(1)a	PAINTING WORKS (MASONRY PAINTING)	147.26	SQ.M.		
1032(1)c	PAINTING WORKS (METAL PAINTING)	46.82	SQ.M.		
<b>CONSTRUCTION OF GUARD HOUSE</b>					
803(1)a	STRUCTURE EXCAVATION (COMMON SOIL)	2.91	CU.M.		
404 (2)	REINFORCING STEEL BAR, GRADE 33	571.43	KGS.		
405	STRUCTURAL CONCRETE CLASS A	3.38	CU.M.		
1046	100MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	16.08	SQ.M.		
1046	150MM CHB NON LOAD BEARING/LOAD BEARING (INCLUDING REINFORCING STEEL)	2.69	SQ.M.		
1027(1)	CEMENT PLASTER FINISH	50.40	SQ.M.		
SPL - 67	SUPPLY AND INSTALLATION OF 0.7M X 1.2M JALOUSIE TYPE WINDOW (GUARD HOUSE)	2.00	UNIT		