

Annex 2 Bill of Quantity

Lot#1

Intake and Break Pressure Tank

(1) BILL OF QUANTITY 1 INTAKE AND BREAK PRESSURE TANK CONSTRUCTION OF INTAKE AND BREAK PRESSURE TANK FOR WATER SUPPLY SYSTEM IN LOILEN TOWNSHIP (Inside Dimension ~ 3'-0" x 3'-0" x 3'-0") (Intake Location ~ Kyein Khan – 1, Lae Laung – 1, Lone Tway – 1, Nin Hee – 1, Kone Long – 1, Wan Kaut Lon – 1) (Break Pressure Tank Location ~ Kyein Khan – 1)			
Sr. No	Material & Labor	Unit	Qty
1	Cement	Bag	5
2	Sand	Cft	18
3	Chipping (Crushed stone ¾" - 1")	Cft	18
4	Brick (Lime concrete block brick; 11" x 4.5" x 6")	No	206
5	3/8" Ø M.S bar	Lbs	18
6	G.I Pipe 1" Ø (China)	Rft	3.5
7	G.I Pipe 1½" Ø (China)	Rft	8
8	G.I Union 1½" Ø (China)	No	1
9	G.I Globe valve 1½" Ø (China)	No	1
10	G.I Tee 1½" - 1" - 1½" Ø (China)	No	1
11	G.I End cap 1½" Ø (China)	No	1
	Sub Total - Materials (I)		
12	Mason	No	3
13	Hard labor	No	8
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
14	Contingency & Other charges (approx; 5% of Material & Labor Cost) (III)		
(2) BILL OF QUANTITY of 1 INTAKE AND BREAK PRESSURE TANK CONSTRUCTION OF INTAKE AND BREAK PRESSURE TANK FOR WATER SUPPLY SYSTEM IN HOPONG TOWNSHIP (Inside Dimension ~ 3'-0" x 3'-0" x 3'-0") (Intake Location ~ Hsa Aun – 1, Bant Sauk – 1, Bant Kun – 1, Sam Hpu – 1, Ta Hlya Noe – 1, Kyauk Ka Charr – 1, Don Le Tan - 1) (Break Pressure Tank Location ~ Pang Hlyan – 1, Dong Kaung – 1, Bant Sauk – 2, Don Le Tan - 1)			
Sr. No	Material & Labor	Unit	Qty
1	Cement	Bag	5
2	Sand	Cft	18
3	Chipping (Crushed stone ¾" - 1")	Cft	18
4	Brick (Lime concrete block brick; 11" x 4.5" x 6")	No	206
5	3/8" Ø M.S bar	Lbs	18

6	G.I Pipe 1" Ø (China)	Rft	3.5
7	G.I Pipe 1½" Ø (China)	Rft	8
8	G.I Union 1½" Ø (China)	No	1
9	G.I Globe valve 1½" Ø (China)	No	1
10	G.I Tee 1½" - 1" - 1½" Ø (China)	No	1
11	G.I End cap 1½" Ø (China)	No	1
	Sub Total - Materials (I)		
12	Mason	No	3
13	Hard labor	No	8
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
14	Contingency & Other charges (approx; 5% of Material & Labor Cost) (III)		

Lot #2
Water Tank

(1) BILL OF QUANTITY of 1 Water Tank FOR CONSTRUCTION OF WATER TANK IN <u>LOILEN TOWNSHIP</u> (Inside Dimension ~ 5'-0" x 5'-0" x 3'-6") (Location ~ Lae Laung – 1, Pan Lem – 3, Lone Tway – 1, Kong Yaung – 1, Long Awng – 2, Long Khaw – 1, Hsan Pu – 1, Kone Hee – 1, Hway Su – 1)			
Sr. No	Material & Labor	Unit	Qty
1	Cement	Bag	9
2	Sand	Cft	31
3	Chipping (Crushed stone $\frac{3}{4}$ " - 1")	Cft	25
4	Brick (Lime concrete block brick; 11" x 4.5" x 6")	No	340
5	1½" Ø PVC Pipe (8.5 bar)	No	1
6	1½" Ø PVC Ball valve	No	2
7	Barbed wire (Reinforcement for brick work)	Coil	0.5
	Sub Total - Materials (I)		
8	Mason	No	6
9	Hard labor	No	13
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
10	Contingency & Other charges (approx; 3% of Material & Labor Cost) (III)		
(2) BILL OF QUANTITY of 1 Water Tank FOR CONSTRUCTION OF WATER TANK IN <u>HOPONG TOWNSHIP</u> (Inside Dimension ~ 5'-0" x 5'-0" x 3'-6") (Location ~ Htan Pha Ya – 1, Ngo Chee – 1, Hsa Aun – 1, Pang Hlyan – 1, Dong Kaung – 1, Bant Sauk – 1, Bant Kun – 1, Sam Hpu – 1, Tha Hlya Noe – 1, Kyauk Ka Charr – 1, Don Le Tan – 1)			
Sr. No	Material & Labor	Unit	Qty
1	Cement	Bag	9
2	Sand	Cft	31
3	Chipping (Crushed stone $\frac{3}{4}$ " - 1")	Cft	25
4	Brick (Lime concrete block brick; 11" x 4.5" x 6")	No	340
5	1½" Ø PVC Pipe (8.5 bar)	No	1
6	1½" Ø PVC Ball valve	No	2
7	Barbed wire (Reinforcement for brick work)	Coil	0.5
	Sub Total - Materials (I)		
8	Mason	No	6
9	Hard labor	No	13
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
10	Contingency & Other charges (approx; 3% of Material & Labor Cost) (III)		

**Lot #3
Pipeline**

1. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT KYEIN KHAN VILLAGE (Length ~ 3588 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1" Ø PVC Pipe (8.5 bar)	No	199
2	1" Ø PVC Socket	No	199
3	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
4	Skill labor for Pipe Joining, Installation & Supervision	No	3.5
5	Labor for pipeline digging, transportation, pipe joining, pipe burying, etc.	No	40
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
6	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
2. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT LAE LAUNG VILLAGE (Length ~ 1335 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1" Ø PVC Pipe (8.5 bar)	No	74
2	1" Ø PVC Socket	No	74
3	PVC Glue (2.2 kg)	Tin	0.5
	Sub Total - Materials (I)		
4	Skill labor for Pipe Joining, Installation & Supervision	No	1
5	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	15
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
6	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
3. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT PAN LEM VILLAGE (Length ~ 5314 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1 1/2" Ø PVC Pipe (8.5 bar)	No	201
2	1 1/2" Ø PVC Pipe (13.5 bar)	No	29
3	1 1/2" Ø PVC Socket	No	230

4	1" Ø PVC Pipe (8.5 bar)	No	63
5	1" Ø PVC Socket	No	63
6	PVC Glue (2.2 kg)	Tin	1.5
	Sub Total - Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	5
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	59
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
9	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
4. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT LONE TWAY VILLAGE (Length ~ 1804 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1 1/4" Ø PVC Pipe (8.5 bar)	No	18
2	3/4" Ø PVC Pipe (8.5 bar)	No	82
3	1 1/4" Ø PVC Socket	No	18
4	3/4" Ø PVC Socket	No	82
5	1 1/4" – 3/4" Ø PVC Reducer	No	1
6	PVC Glue (2.2 kg)	Tin	0.5
	Sub Total - Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	2
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	20
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
9	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
5. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT LONG AWNG VILLAGE (Length ~4297ft)			
Sr. No	Material & Labor	Unit	Qty
1	1 1/2" Ø PVC Pipe (8.5 bar)	No	192
2	1 1/2" Ø PVC Pipe (13.5 bar)	No	32
3	1 1/2" Ø PVC Socket	No	224
4	1 1/2" Ø G.I Pipe	No	13
5	1 1/2" Ø G.I Socket	No	13
6	PVC Glue (2.2 kg)	No	1.5
	Sub Total - Materials (I)		

7	Skill labor for Pipe Joining, Installation & Supervision	No	5
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	48
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
9	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
6. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT LONG KHAW VILLAGE (Length ~ 1656 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1 1/2" Ø PVC Pipe (8.5 bar)	No	86
2	1 1/2" Ø PVC Pipe (13.5 bar)	No	6
3	1 1/2" Ø PVC Socket	No	92
4	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
5	Skill labor for Pipe Joining, Installation & Supervision	No	1.5
6	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	18
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
7	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
7. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT NIN HEE VILLAGE (Length ~ 4526 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1 1/4" Ø PVC Pipe (8.5 bar)	No	190
2	1" Ø PVC Pipe (8.5 bar)	No	60
3	1 1/4" Ø PVC Socket	No	190
4	1" Ø PVC Socket	No	60
5	1 1/4" – 1" Ø PVC Reducer	No	1
6	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	4.5
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	50
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
9	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		

8. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT WANKAUT LON VILLAGE (Length ~ 754 ft)			
No	Material & Labor	Unit	Qty
1	1" Ø PVC Pipe (8.5 bar)	No	42
2	1" Ø PVC Socket	No	42
3	PVC Glue (2.2 kg)	Tin	0.5
	Sub Total – Materials (I)		
4	Skill labor for Pipe Joining, Installation & Supervision	No	1
5	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	8
	Sub Total – Labor (II)		
	Total – Materials and Labor (I + II)		
6	Contingency & Other charges (7pprox.; 2% of Material & Labor Cost) (III)		
9. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT I AUN VILLAGE (Length ~ 4225 ft)			
No	Material & Labor	Unit	Qty
1	1 ¼" Ø PVC Pipe (8.5 bar)	No	145
2	1" Ø PVC Pipe (8.5 bar)	No	89
3	1 ¼" Ø PVC Socket	No	145
4	1" Ø PVC Socket	No	89
5	1 ¼" – 1" Ø PVC Reducer	No	1
6	PVC Glue (2.2 kg)	Tin	1
	Sub Total – Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	4
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	47
	Sub Total – Labor (II)		
	Total – Materials and Labor (I + II)		
9	Contingency & Other charges (7pprox.; 2% of Material & Labor Cost) (III)		
10. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT PANG HLYAN VILLAGE (Length ~ 4172 ft)			
No	Material & Labor	Unit	Qty
1	1" Ø PVC Pipe (8.5 bar)	No	75
2	1" Ø PVC Pipe (13.5 bar)	No	122
3	¾" Ø PVC Pipe (8.5 bar)	No	34
4	1" Ø PVC Socket	No	197
5	¾" Ø PVC Socket	No	34

6	PVC Glue (2.2 kg)	Tin	1
	Sub Total – Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	4
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	46
	Sub Total – Labor (II)		
	Total – Materials and Labor (I + II)		
9	Contingency & Other charges (approx.; 2% of Material & Labor Cost) (III)		

11. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT DONG KAUNG VILLAGE (Length ~9610 ft)

Sr. No	Material & Labor	Unit	Qty
1	1 1/4" Ø PVC Pipe (8.5 bar)	No	88
2	1 1/4" Ø PVC Pipe (13.5 bar)	No	357
3	1" Ø PVC Pipe (8.5 bar)	No	86
4	1 1/4" Ø PVC Socket	No	445
5	1" Ø PVC Socket	No	86
6	PVC Glue (2.2 kg)	Tin	2
	Sub Total - Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	9
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	107
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
9	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		

12. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT BANT SAUK VILLAGE (Length ~10037 ft)

Sr. No	Material & Labor	Unit	Quantity
1	1" Ø PVC Pipe (8.5 bar)	No	255
2	1" Ø PVC Pipe (13.5 bar)	No	300
3	1" Ø PVC Socket	No	555
4	PVC Glue (2.2 kg)	Tin	2
	Sub Total - Materials (I)		
5	Skill labor for Pipe Joining, Installation & Supervision	No	10
6	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	111
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
7	Contingency & Other charges (approx; 2% of Material & Labor Cost)		

13. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT BANT KUN VILLAGE (Length ~ 4143 ft)			
Sr. No	Material & Labor	Unit	Quantity
1	1 1/4" Ø PVC Pipe (13.5 bar)	No	36
2	1" Ø PVC Pipe (8.5 bar)	No	109
3	1" Ø PVC Pipe (13.5 bar)	No	84
4	1 1/4" Ø PVC Socket	No	36
5	1" Ø PVC Socket	No	193
6	1 1/4" – 1" Ø PVC Reducer	No	2
7	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
8	Skill labor for Pipe Joining, Installation & Supervision	No	4
9	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	46
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
10	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
14. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT SAM HPU VILLAGE (Length ~ 5494 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1" Ø PVC Pipe (8.5 bar)	No	127
2	1" Ø PVC Pipe (13.5 bar)	No	177
3	1" Ø PVC Socket	No	304
4	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
5	Skill labor for Pipe Joining, Installation & Supervision	No	5
6	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	61
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
7	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
15. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT THA HLYANOE VILLAGE (Length ~ 4182 ft)			
Sr. No	Material & Labor	Unit	Quantity
1	1 1/4" Ø PVC Pipe (8.5 bar)	No	231
2	1 1/4" Ø PVC Socket	No	231
3	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
4	Skill labor for Pipe Joining, Installation & Supervision	No	4
5	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	46

	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
6	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
16. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT KYAUKKACHARR VILLAGE (Length ~4690 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1 1/4" Ø PVC Pipe (8.5 bar)	No	73
2	1" Ø PVC Pipe (8.5 bar)	No	187
3	1 1/4" Ø PVC Socket	No	73
4	1" Ø PVC Socket	No	187
5	1 1/4" – 1" Ø PVC Reducer	No	1
6	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
7	Skill labor for Pipe Joining, Installation & Supervision	No	4.5
8	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	52
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
9	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		
17. BILL OF QUANTITY FOR CONSTRUCTION OF PIPELINE AT DONLE TAN VILLAGE (Length ~5248 ft)			
Sr. No	Material & Labor	Unit	Qty
1	1" Ø PVC Pipe (8.5 bar)	No	290
2	1" Ø PVC Socket	No	290
3	PVC Glue (2.2 kg)	Tin	1
	Sub Total - Materials (I)		
4	Skill labor for Pipe Joining, Installation & Supervision	No	5
5	Labor for pipeline digging, transportation, pipe joining, burying, etc.	No	58
	Sub Total - Labor (II)		
	Total - Materials and Labor (I + II)		
6	Contingency & Other charges (approx; 2% of Material & Labor Cost) (III)		

Lot # 4
Engine and Water Pump

1. BILL OF QUANTITY FOR PROVISION OF DIESEL ENGINE FOR PUMP WATER SYSTEM IN LOILEN TOWNSHIP (PAN LEM – 1 No., LONG AWNG – 1 No., LONG KHAW – 1 No.)			
Sr. No	Material & Labor	Unit	Qty
1	Provision of Diesel Engine (China made) (WULING Brand, Rated Output 25 Hp, Rated Speed 2200 rpm, Voltage 230 KV)	No	3
2. BILL OF QUANTITY FOR PROVISION OF WATER PUMP FOR PUMP WATER SYSTEM IN LOILEN TOWNSHIP (PAN LEM – 1 No., LONG AWNG – 1 No., LONG KHAW – 1 No.)			
Sr. No	Material & Labor	Unit	Qty
1	Provision of Power Sprayer (China made) (Ousen Brand, OS _ 120A1N, RPM 900 rpm, Sunction (l/min) ~ 116, Pressure (mpa) ~ 5.0, Require Power (kw) ~ 9.5)	No	3

