

UNIT PRICE LIST - BOQ - BAN YAPOUNG

Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K) - estimate	Sub-total (K)	Additional information
1 - Concrete infrastructures												
	Nail ທັງສອງຊະນິດ	5 cm length	Kg		20	12	25		57		LAK	- additional small nails if required
	Nail ທັງສອງຊະນິດ	8 cm length	Kg		20	12	35		67		LAK	- Assembling planks and beams - Assemblage des planches et poutrelles
	Nail ທັງສອງຊະນິດ	10 cm length	Kg		20	12	25		57		LAK	- Assembling planks and beams - Assemblage des planches et poutrelles
	Concrete cover	50cm x 50cm x 50cm	Pce					4	4		LAK	- Concrete cover for valves in village
	Steel wire mesh	#1mm	m		1	2	2		5		LAK	- Ventilation openings in concrete
	Concrete Blocks	20x20x40 cm	Pce		2	4	4		10		LAK	- Ventilation openings in concrete
	Reinforced Plastic wire mesh	#1mm	m ²	24		3	9		36		LAK	- For catchment - 12 m ² (x2) 6m x 2 m (x2) - For filtration - 3 m ² (1m x 3m) & 9 m ² : 1 x (3m x 3m)
	Stirrups steel wire - fil a ligaturer - ລັດສະໝີ	Ø1 mm	Kg	1	9	10	42		62		LAK	-
	Concrete steel bar (10m) ທັງສອງຊະນິດ (10m)	Ø 6 mm	Line	5	20	15	70		110		LAK	- Additional reinforcement for the construction of valve chambers in the village and concrete covers
	Concrete steel bar (10m) ທັງສອງຊະນິດ (10m)	Ø 8 mm	Line		20	30	135		185		LAK	-
	Concrete steel bar (10m) ທັງສອງຊະນິດ (10m)	Ø 10 mm	Line		30	35	105		170		LAK	-
	Concrete steel bar (10m) ທັງສອງຊະນິດ (10m)	Ø 12 mm	Line				55		55		LAK	- Reinforcement of concrete slab - double layer - Ferailage de la dalle en double couche
	Portland ciment - bag ຊີມັງປອດແລວ (ກະທົບງາດຕະ) - ຖິ່ງ		50 kg (bag)	5	35	25	142		207		LAK	- Dosage at 350 kg/m ³ - Dosage à 350 kg/m ³
	Anchoring cartridge				5	5			10		LAK	- Chemical anchor for fixing iron bars in existing tanks
	cartridge gun					1			1		LAK	- Chemical anchor for fixing iron bars in existing tanks - anchoring gun
	Mass water repellent ຊີມັງກັ່ນຊີມ		Liter		12	8	50		70		LAK	- additive to concrete to reinforce waterproofing (2,5 l per cube meter of cement)
	Formwork boards/ໂລ່ງແລ່ນ	2 cm (Thickness) * 10 cm (W) * 400 cm (L)	Pce		160	100			260		VILLAGE CONTRIBUTION	- For formwork roof - coffrage du toit (evite les decoupes)
	Formwork boards/ໂລ່ງແລ່ນ	2 cm (Thickness) * 20 cm (W) * 400 cm (L)	Pce				130		130		VILLAGE CONTRIBUTION	- For formwork roof - coffrage du toit (evite les decoupes)
	Formwork boards/ໂລ່ງແລ່ນ	2 cm (Thickness) * 20 cm (W) * 500 cm (L)	Pce				50		50		VILLAGE CONTRIBUTION	- For formwork walls and fondations
	Wood beam - Poutrelles en bois	4 cm x 8 cm x 400 cm	m		30	20	50		100		VILLAGE CONTRIBUTION	- Renforcement du coffrage des murs (raidisseur verticaux)
	Sand for concrete 0/4 ຊາຍ		m ³		3	2	10		15		LAK	- For concrete and grout (beton et mortier de scellement)
	Gravel 5/15 ຄຳ		m ³		5	3	19		27		LAK	- Standard aggregate for concrete
TOTAL										LAK	-	
2 - Filtration & waterproofing												
Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K) - estimate	Sub-total (K)	Additional information
	Non-woven filtration geotextile - geotextile a forte porosite	HP 350 g/m ² - 6m x 1m (x2)	m ²	12					12		LAK	- High permeability. For separating layers of gravel/sand. Puncture resistant (> 2000 N) - Haute perméabilité. Pour séparer les couches de gravier/sable. Résistant aux perforations (> 2000 N).
	Washed Coarse gravel	20/40 mm	m ³	2					2		LAK	- Drainage layer - couche de drainage
	Washed Fine gravel	5 / 15 mm	m ³			1	1		2		LAK	- Intermediate layer - couche intermediaire
	Washed filtration sand 0/2 mm	0/2 mm	m ³				1		1		LAK	- Final filtration - filtration finale

	Hydro-expansive joint		m		10	8	25		43		LAK	-	Structural breakaway joint - joint de rupture structurelle, assure etancheite entre bloc 1 et 2 et plus generalement sur l'ensemble de la structure
	Teflon roll		Roll	5	20	20	30	200	275		LAK	-	Teflon for sealing connections between HDPE and PVC parts - Teflon pour raccord d'etancheite des pieces en PEHD et PVC + spare parts for VMC
TOTAL											LAK	-	
3 - Hydraulic accessories & fittings - Stainless, brass & GSP													
Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K)	Sub-total (K)		Additional information
	45° GS Elbow	1.1/4"	Pce				2		2		LAK	-	
	45° GS Elbow	2"	Pce		4	5	12		21		LAK	-	
	90° GS Elbow	2"	Pce	1	1	1	2		5		LAK	-	
	GS reduction - female	1"x1/2"	Pce		2				2		LAK	-	
	GS reduction - female	2"x1.1/4"	Pce			2	1		3		LAK	-	
	GS reduction - female	2"x1"	Pce			1	3		4		LAK	-	
	GS tee	1"x1/1"	Pce		1				1		LAK	-	
	GS tee	2"x2/2"	Pce		1	1	8		10		LAK	-	
	GS reduction tee	2"x1/2"	Pce			2			2		LAK	-	
	Brass reducer bushing	1" (male) - 1/2" (female)				2			2		LAK	-	
	GS nipple	1"	Pce		2	4	5		11		LAK	-	
	GS nipple	1.1/4"	Pce			2	2		4		LAK	-	
	GS nipple	2"	Pce		8	12	29	10	59		LAK	-	
	GS union	2"	Pce		5	8	17	8	38		LAK	-	
	GS socket	2"	Pce	1	1		4		6		LAK	-	
	Brass faucet	1/2"	Pce		2				2		LAK	-	high-quality brass faucet
	GS brass valve	1"	Pce			2	3		5		LAK	-	
	GS gate valve	1.1/4"	Pce				1		1		LAK	-	
	GS gate valve	2"	Pce	1	2	2	8	4	17		LAK	-	
	Brass air valve	1"	Pce			1	3		4		LAK	-	
	Brass strainer	1.1/4"	Pce				1		1		LAK	-	
	Brass strainer	2"	Pce				2		2		LAK	-	
	Brass foot valve	2"	Pce			1			1		LAK	-	
	Swing check valve	2"	Pce			1			1		LAK	-	
	Pression gauge	1/2" (male)	Pce			5			5		LAK	-	
	Steel fastener for pipes	2"	Pce			10			10		LAK	-	
TOTAL											LAK	-	
4 - Hydraulic accessories & fittings - HDPE													
Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K)	Sub-total (K)		Additional information
	Elbow 90	Ø50 mm	Pce				2		2		LAK	-	
	Elbow 90	Ø63 mm	Pce	4	1		4		9		LAK	-	
	Compression to male elbow 90	Ø63 mm x 2"					1		1		LAK	-	
	Male adapter	Ø20 mm x 1/2"	Pce				1	152	152		LAK	-	
	Male adapter	Ø32 x 1.1/4"	Pce				1		1		LAK	-	
	Male adapter	Ø50 mm x 2"	Pce			1	1	2	4		LAK	-	
	Male adapter	Ø63 mm x 2"	Pce	1	2	1	2	2	8		LAK	-	
	Female adapter	Ø63 mm x 2"	Pce	2					2		LAK	-	
	threaded male tee	Ø50 mm x 2" x Ø50 mm	Pce						-		LAK	-	
	threaded male tee	Ø63 mm x 2" x Ø63 mm	Pce				2	5	7		LAK	-	
	compression coupling	Ø 32 / 32 mm	Pce					2	2		LAK	-	
	compression coupling	Ø 50 / 50 mm	Pce					15	15		LAK	-	
	compression coupling	Ø 63 / 63 mm	Pce	2				20	22		LAK	-	
	coupling reduction	Ø 63 / 50 mm	Pce					6	6		LAK	-	
	coupling reduction	Ø 63 / 32 mm	Pce					3	3		LAK	-	
	coupling reduction	Ø 50 / 32 mm	Pce					5	5		LAK	-	
	Clamp saddle	Ø32 x 1/2"	Pce					10	10		LAK	-	
	Clamp saddle	Ø50 x 1/2"	Pce					40	40		LAK	-	
	Clamp saddle	Ø63 x 1/2"	Pce					40	40		LAK	-	
	Compression reduction tee	Ø63/Ø50/Ø63	Pce		2				2		LAK	-	
	Compression tee	Ø63/Ø63/Ø63	Pce	1				5	6		LAK	-	
	Compression tee	Ø50/Ø50/Ø50	Pce					5	5		LAK	-	
	Compression tee	Ø32/Ø32/Ø32	Pce					5	5		LAK	-	
	Compression tee	Ø20/Ø20/Ø20	Pce					20	20		LAK	-	
	End cap	Ø32	Pce					5	5		LAK	-	
	End cap	Ø50	Pce					5	5		LAK	-	
	End cap	Ø63	Pce	2				5	7		LAK	-	
	Silicone lubricant	400 ml	Bottle				1		1		LAK	-	
TOTAL											LAK	-	
5 - Hydraulic accessories & fittings - DI / cast iron & water neters													

Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K)	Sub-total (K)	Additional information
	Water meter cast iron body - class B - village contribution	1/2" - Ø 15/21 mm	Pce					51	51	LAK	-	Good standard water meter quality, class B, cast iron body - Threaded male
	Water meter cast iron body - class B - Project	1/2" - Ø 15/21 mm	Pce					15	15	LAK	-	Good standard water meter quality, class B, cast iron body - Threaded male
	Safety steel box with cover for water meters	Nampapa style - Laos	Pce					66	66	LAK	-	Steel box preferred than concrete to avoid any collapses during transportation
TOTAL										LAK	-	
6 - Hydraulic accessories & fittings - PVC												
Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K)	Sub-total (K)	Additional information
	90° PVC elbow	1/2"	Pce					289	289	LAK	-	Water meter connection (4 elbows per connection)
	90° PVC elbow	2"	Pce		2	10	2		14	LAK	-	outlet to drainage pipe
	PVC tee	2"/2"/2"	Pce			4	3		7	LAK	-	
	90° PVC faucet elbow female	1/2"	Pce					157	157	LAK	-	fancy ball tap valve connection and HDPE male connector
	PVC Male adapter	2"	Pce	4	3	5	6		18	LAK	-	
	PVC Female adapter	1/2"	Pce					156	156	LAK	-	1/2" meter connection - raccord sur compteur 1/2"
	PVC Female adapter	2"	Pce			2			2	LAK	-	
	PVC ball tap valve	1/2"	Pce					86	86	LAK	-	Valve before water meter - vanne avant compteur
	Fancy Ball tap valve (sanwa type)	1/2"	Pce					76	76	LAK	-	
	PVC Glue - ກິນຊີ	250g	Pce	1	5	5		5	16	LAK	-	
TOTAL										LAK	-	
7 - Pipes (GSP, HDPE, PVC)												
Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K)	Sub-total (K)	Additional information
	GSP - Threaded male	1" - Blue type	ml		1				1	LAK	-	Cutting and male threading to be carried out before the material is shipped. See details in the following tab
	GSP - Threaded male	1.1/4" - Blue type	ml				1		1	LAK	-	
	GSP - Threaded male	2" - Blue type	ml			10	17		27	LAK	-	Cutting and male threading to be carried out before the material is shipped. See details in the following tab
	PVC pipe	1/2" - PN 13.5	ml					660	660	LAK	-	10 meters of PVC pipe per household for meter connection after HDPE 20 piping - 4 metres de tuyau PVC par famille pour raccordement compteur apres canalisation en PEHD 20
	PVC pipe	1.1/2" - PN 13.5	ml				12		12	LAK	-	PVC pipes inserted into filter floor
	PVC pipe	2" - PN 13.5	ml	5	10	30	30		75	LAK	-	
	PVC pipe	3" - PN 13.5	ml		2	2	2		6	LAK	-	
	HDPE pipe	Ø20mm - PN 16	ml					1,980.0	1,980	LAK	-	30 meters per household. High average for connecting households from the main pipes.
	HDPE pipe	Ø32mm - PN 10	ml					600	600	LAK	-	
	HDPE pipe	Ø50 mm - PN 8	ml					1,000	1,000	LAK	-	
	HDPE pipe	Ø50 mm - PN 10	ml					250	250	LAK	-	
	HDPE pipe	Ø63 mm - PN 8	ml	30	25	25		800	880	LAK	-	
	HDPE perforated pipe	Ø63 mm - PN 8	ml	6					6	LAK	-	2 pipes of 3 meters - perforated on 2 meters only - Opening : 10 cm (length), spacing : 1.5 cm, silt opening : 5mm
	Corrugated sheath (protective sleeve for water pipe)	Ø150 mm	ml					20	20	LAK	-	Roadway crossing protection
	Corrugated sheath (protective sleeve for electrical pipe)	Ø 90 mm	ml					20	20	LAK	-	
TOTAL										LAK	-	
8 - Electrical network, pipes and PVC fittings												
Description	Dimension / diameter / Description	Unit	Spring catchment	Lower water tank (extension 1) 3 x 2.1 x 1.4	Lower water tank (extension 2) 2.2 x 2.1 x 1.4	Upper Water tank 4.6 x 3.4 x 2.4	Water supply	Total quantity	Unit price (K)	Sub-total (K)	Additional information	
	PVC pipe	1" - Ø25 - yellow type	ml				300	300	LAK	-	external connection of the electrical networks for pumping	
	PVC coupling socket	1" - Ø25 - yellow type	pce				100	100	LAK	-	external connection of the electrical networks for pumping	
	PVC elbows 90	1" - Ø25 - yellow type	pce				20	20	LAK	-	external connection of the electrical networks for pumping	
	PVC elbows 45	1" - Ø25 - yellow type	pce				10	10	LAK	-	external connection of the electrical networks for pumping	
	PVC tees	1" - Ø25 - yellow type	pce				10	10	LAK	-	external connection of the electrical networks for pumping	
	Pipes clips	1" - Ø25 - yellow type	pce				300	300	LAK	-	external connection of the electrical networks for pumping	
	Wall Plugs and Screws (for clips)		pce				250	250	LAK	-	external connection of the electrical networks for pumping	

	HDPE pipe (for electrical networks)	Ø50 - red stripe - PN 6	ml					200	200		LAK	-	external connection of the electrical networks for pumping
	Compression coupling	Ø 50 / 50 mm	Pce					10	10		LAK	-	external connection of the electrical networks for pumping
TOTAL										LAK	-		
9 - Technicians tools - reusable													
Illustration	Description	Dimension/ diameter/ Description	Unit	Total quantity		Unit price (K)		Sub-total (K)		Additional Infor			
	Drilling machine on battery - Japanese quality		Pce	1				LAK -					
	Battery-powered concrete drill - Japanese quality		Pce	1				LAK -					
	Wood Saw ຜັ່ງໄມ້ປາກ		Pce	2				LAK -					
	Hack Saw ຄັ້ນຜັ່ງເຫຼັກ		Pce	2				LAK -					
	Blade for hack saw ໃບຜັ່ງເຫຼັກ (saw blades for steel/stainless steel)		Pce	15				LAK -					
	Plastic hose ສາຍໄຕໄຟຈັບລະດັບ		m	10				LAK -					
	Square ສາກ 90 degrees		Pce	2				LAK -					
	File for saw blades ຕັກກະໄປນ້ອຍ (ສາມຫຼ່ຽມ)		Pce	2				LAK -					
	Measuring tape - 50m ຄມັດພົບ		Pce	1				LAK -					
	Measuring tape - 5m ຄມັດພົບ		Pce	2				LAK -					
	Concrete chisel		Pce	2				LAK -					
	Steel Trowel ກຸ້ງກີ່		Pce	7				LAK -					
	Steel Concrete float		Pce	6				LAK -					
	Scraping ruler for masonry - 3m		Pce	2				LAK -					
	Hammer ຄ້ອນຕີ		Pce	2				LAK -					
	Plier ຄີມ		Pce	2				LAK -					
	Wrench pipe no 18" ກຸ້ນແຈປາກແຂ້ວ 18"		Pce	1				LAK -					
	Wrench pipe no 24" ກຸ້ນແຈປາກແຂ້ວ 24"		Pce	1				LAK -					
	Twist drill 5 mm		Pce	2				LAK -					
	Twist drill 8 mm		Pce	2				LAK -					
	Twist wood drill 21 mm for electric screwdrivers	21 mm	Pce	2				LAK -					
	Pencil sharpener with blade		Pce	1				LAK -					

	HDPE / PVC pipe Cutter	Pce	1	LAK	-
	Combination spanners set (6 mm to 20 mm or more)	Pce	1	LAK	-
	Concrete steelbender (Ø 6 - 8 mm)	Pce	3	LAK	-
	Concrete steelbender (Ø 10 -12 mm)	Pce	3	LAK	-
	Point crowbar	Pce	2	LAK	-
	Pickaxe	Pce	2	LAK	-
	Mason shovels	Pce	6	LAK	-
	Bucket (Plastic)	Pce	25	LAK	-
	Sebal stone ຜັກສີດາວ	Pce	2	LAK	-
	Finishing foam /ຜັກຮຸ້ນ	Pce	15	LAK	-
	Survey spray color red	Pce	2	LAK	-
	Work gloves (cut-resistant for pipe handling)	Pce	10	LAK	-
	Hand shear ກັ່ນຕາວັດຈັດຊັງ	Pce	1	LAK	-
	Spirit level	Pce	2	LAK	-
	Cleaning cloths	Pce	20	LAK	-
TOTAL				LAK	-
TOTAL PRICE FOR MATERIAL				LAK	-
TRANSPORT TO THE VILLAGE - Ban Yapoung (21.651560659323327, 102.06143757715725), Phongsaly district, Phongsaly Province.				LAK	-
TOTAL PRICE IN LAO KIP				LAK	-