












































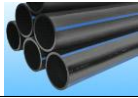







UNIT PRICE LIST - BOQ - BAN NOY												
Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment repair (Ban Noy 1)	Spring catchment (ban noy 2)	Upper Water tank 4.6 x 3.4 x 2.4 (Ban Noy 1)	Water supply - Ban Noy 1	Water supply - Ban Noy 2	Total quantity	Unit price (K) - estimate	Sub-total (K)	Additional information
1 - Concrete infrastructures												
	Nail (ຖັງນາຍ)	5 cm length	Kg		2	25			27		LAK	- additional small nails if required
	Nail (ຖັງນາຍ)	8 cm length	Kg		7	35			42		LAK	- Assembling planks and beams - Assemblage des planches et poutrelles
	Nail (ຖັງນາຍ)	10 cm length	Kg		2	25			27		LAK	- Assembling planks and beams - Assemblage des planches et poutrelles
	Steel wire mesh	#1mm	m			2			2		LAK	-
	Reinforced Plastic wire mesh	#1mm	m ²		2	9			11		LAK	-
	Stainless (No galvanized) steel grid - To build on size here	Ø10 mm - 5 cm thick x 60 xcm high x 40 cm wide	Pce		1				1		LAK	-
	Concrete Blocks	20x20x40 cm	Pce			4			4		LAK	- Ventilation openings in concrete
	Stirrup steel wire - ຟີ່ ລີກຕູຣະ - ດອດອູ້	Ø1 mm	Kg		10	42			52		LAK	-
	Concrete steel bar (10m) (ຮຸ່ນເຊັ່ນ 10m)	Ø 8 mm	Line		12	70			82		LAK	- Additional reinforcement for the construction of valve chambers in the village and concrete covers
	Concrete steel bar (10m) (ຮຸ່ນເຊັ່ນ 10m)	Ø 8 mm	Line	20	30	135			185		LAK	-
	Concrete steel bar (10m) (ຮຸ່ນເຊັ່ນ 10m)	Ø 10 mm	Line	30	30	105			135		LAK	-
	Concrete steel bar (10m) (ຮຸ່ນເຊັ່ນ 10m)	Ø 12 mm	Line			55			55		LAK	- Reinforcement of concrete slab - double layer - Ferailage de la dalle en double couche
	Portland cement - ບາກ ຊີມັງເຊັດ (ປະຢັງຕຸ້ນ) - ຢີ່	50 kg (bag)	30	35	142				207		LAK	- Dosage at 350 kg/m ³ - Dosage à 350 kg/m ³
	Mass water repellent ຊີມັງນີ້ລູ		Liter	6	7	50			63		LAK	- additive to concrete to reinforce waterproofing (2.5 l per cube meter of cement)
	Formwork board/ແລັດຕະ	2 cm (Thickness) * 20 cm (W) * 400 cm (L)	Pce						9		LAK	VILLAGE CONTRIBUTION For formwork roof - coffrage du toit (evite les decoups)
	Formwork board/ແລັດຕະ	2 cm (Thickness) * 20 cm (W) * 400 cm (L)	Pce		40	130			170		LAK	VILLAGE CONTRIBUTION For formwork roof - coffrage du toit (evite les decoups)
	Formwork board/ແລັດຕະ	2 cm (Thickness) * 20 cm (W) * 500 cm (L)	Pce			50			50		LAK	VILLAGE CONTRIBUTION For formwork walls and foundations
	Wood beam - ຫຼອນເກີດ ມາ ບົວ	2 cm (Thickness) * 20 cm (W) * 500 cm (L)	Pce			50			50		LAK	VILLAGE CONTRIBUTION Reinforcement of the cofferage des murs (radisson sur vertical)
	Sand for concrete 0/4 ປະ	4.0m x 8.0 cm x 400 cm	m ³	2	3	10			15		LAK	- For concrete and grout (beton et mortier de scellement)
	Gravel 5/15 ຄຳ		m ³	4	5	19			28		LAK	- Standard aggregate for concrete
TOTAL										LAK		
2 - Filtration & waterproofing												
	Washed Coarse gravel	20/40 mm	m ³		0.2				0.2		LAK	- Drainage layer - couche de drainage
	Washed Fine gravel	5/15 mm	m ³		0.2	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		12	25			37		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		15	30	100	30	175		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												
	45° GS Elbow	1.1/4"	Pce			2			2		LAK	-
	45° GS Elbow	2"	Pce			2			4		LAK	-
	90° GS Elbow	2"	Pce			2			4		LAK	-
	GS reduction - female	1" x 1/2"	Pce			1		2	2		LAK	-
	GS reduction - female	2" x 1.1/4"	Pce			1			1		LAK	-
	GS reduction - female	2" x 1"	Pce		1	3			4		LAK	-
	GS tee	2" / 2" / 2"	Pce			3			11		LAK	-
	GS nipple	1"	Pce			2		2	9		LAK	-
	GS nipple	1.1/4"	Pce			2			4		LAK	-
	GS nipple	2"	Pce		6	29	2	4	41		LAK	-
	GS nipple	4"	Pce		2				2		LAK	-
	GS union	1.1/4"	Pce		2				2		LAK	-
	GS union	2"	Pce		1	17	2	4	24		LAK	-
	GS socket	1.1/2"	Pce						2		LAK	-
	GS socket	2"	Pce			2			6		LAK	-
	GS brass valve	1"	Pce			3		2	6		LAK	-
	GS gate valve	1.1/4"	Pce		1	1			2		LAK	-
	GS gate valve	2"	Pce		1	8	1	2	12		LAK	-
	GS gate valve	4"	Pce			1			1		LAK	-
	Brass air valve	1"	Pce		1	3	2		6		LAK	-
	Brass strainer	1.1/4"	Pce			1			1		LAK	-
	Brass strainer	2"	Pce		1	2			3		LAK	-
	Steel fastener for pipes	2"	Pce				20		20		LAK	-
TOTAL										LAK		
4 - Hydraulic accessories & fittings - HDPE												

Illustration	Description	Dimension / diameter / Description	Unit	Spring catchment repair (Ban Noy 1)	Spring catchment (Ban Noy 2)	Upper Water tank 4.6 x 3.4 x 2.4	Water supply - Ban Noy 1	Water supply - Ban Noy 2	Total quantity	Unit price (K)	Sub-total (K)	Additional information
	Elbow 90	Ø50 mm	Pce						6		LAK	
	Elbow 90	Ø63 mm	Pce						8		LAK	
	Compression to male elbow 90	Ø63 mm x 2"	Pce						1		LAK	
	Male adapter	Ø20 mm x 1/2"	Pce					90	90		LAK	
	Male adapter	Ø32 x 1/2"	Pce	2		1			3		LAK	
	Male adapter	Ø50 mm x 2"	Pce	1		2		4	8		LAK	
	Male adapter	Ø63 mm x 2"	Pce			2			2		LAK	
	Female adapter	Ø50 mm x 1.1/2"	Pce					2	2		LAK	
	Threaded male tee	Ø50 mm x 1.1.2" x Ø50 mm	Pce					2	2		LAK	
	Threaded male tee	Ø63 mm x 2" x Ø63 mm	Pce					2	2		LAK	
	Compression coupling	Ø 32 / 32 mm	Pce					25	25		LAK	
	Compression coupling	Ø 50 / 50 mm	Pce					30	30		LAK	
	coupling reduction	Ø 50 / 32 mm	Pce	1					1		LAK	
	Clamp saddle	Ø 32/26 mm	Pce					6	6		LAK	
	Clamp saddle	Ø32 x 1/2"	Pce				10		10		LAK	
	Compression reduction tee	Ø32/Ø30/Ø32	Pce					40	40		LAK	
	Compression tee	Ø30/Ø30/Ø50	Pce	2		5		6	7		LAK	Connection of HDPE 20 pipes to the main pipes of the network (32, 50, and 63) - Raccord des canalisations PEHD 20 sur les canalisations principales du reseau (32, 50 et 63)
	Compression tee	Ø32/Ø32/Ø32	Pce					3	3		LAK	
	Compression tee	Ø20/Ø20/Ø20	Pce					12	12		LAK	
	End cap	Ø32	Pce					2	2		LAK	
	End cap	Ø50	Pce					4	4		LAK	
	TOTAL										LAK	
5 - Hydraulic accessories & fittings - DI / cast iron & water meters												
	Water meter cast iron body - class B - village contribution	1/2" - Ø 15/21 mm	Pce						30		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						5		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						35		LAK	Steel box preferred than concrete to avoid any collapses during transportation
	TOTAL										LAK	
6 - Hydraulic accessories & fittings - PVC												
	90° PVC elbow	1/2"	Pce						165		LAK	Water meter connection (4 elbows per connection)
	90° PVC elbow	2"	Pce		16	2			18		LAK	Outlet to drainage pipe
	90° PVC elbow	4"	Pce		1				1		LAK	Outlet to drainage pipe
	PVC tee	2" / 2" / 2"	Pce		5	3			8		LAK	
	90° PVC faucet elbow female	1/2"	Pce					95	95		LAK	Fancy ball tap valve connection and HDPE male connector
	PVC Male adapter	2"	Pce		4	6			10		LAK	
	PVC Male adapter	4"	Pce		1				1		LAK	
	PVC Cap	2"	Pce		6				6		LAK	
	PVC Female adapter	1/2"	Pce					94	94		LAK	1/2" meter connection - raccord sur compteur 1/2"
	PVC ball tap valve	1/2"	Pce					55	55		LAK	Valve before water meter - vanne avant compteur
	Fancy Ball tap valve (samwa type)	1/2"	Pce					45	45		LAK	
	PVC Glue - rnoqUSg	250g	Pce		5		5	1	11		LAK	
	TOTAL										LAK	
7 - Pipes (GSP, HDPE, PVC)												
	GSP - Threaded male	1.1/4" - Blue type	mt			1			1		LAK	
	GSP - Threaded male	1.1/2" - Blue type	mt					12	12		LAK	2x 6 meters bar here
	GSP - Threaded male	2" - Blue type	mt			2	17		19		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	mt					350	350		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	mt			10	12		22		LAK	PVC pipes inserted into filter floor
	PVC pipe	2" - PN 13.5	mt			20	30		50		LAK	
	PVC pipe	3" - PN 13.5	mt				2		2		LAK	
	PVC pipe	4" - PN 13.5	mt			4			4		LAK	
	HDPE pipe	Ø20mm - PN 16	mt					1,000	1,000		LAK	30 meters per household. High average for connecting households from the main pipes.



	HDPE pipe	Ø32mm - PN 10	mt					300	300		LAK	-
	HDPE pipe	Ø50 mm - PN 8	mt				600	300	900		LAK	-
	HDPE pipe	Ø63 mm - PN 8	mt			100			100		LAK	-
TOTAL										LAK	-	
8 - Technicians tools - reusable												
Illustration	Description	Dimension / diameter / Description	Unit					Total quantity	Unit price (K)	Sub-total (K)	Additional information	
	Blade for hack saw ບໍ່ເຮັດຈາກເຫຼັກ (saw blades for steel/stainless steel)		Pce					15		LAK	-	
	Plastic hose ຫາຍໃນສະໄໝ		lm					10		LAK	-	
	File for saw blades ຕັກກະໂນ້ນເສັ້ນ (ຫາຍເຮັດໂຮງ)		Pce					2		LAK	-	
	Measuring tape - 50m ບັນທຶກວັດ		Pce					1		LAK	-	
	Measuring tape - 5m ບັນທຶກວັດ		Pce					2		LAK	-	
	Concrete chisel		Pce					2		LAK	-	
	Wrench pipe no 18" ຫຼັງແປງທາງແຂ້ວ 18"		Pce					1		LAK	-	
	Wrench pipe no 24" ຫຼັງແປງທາງແຂ້ວ 24"		Pce					1		LAK	-	
	Twist drill 6 mm		Pce					2		LAK	-	
	Twist drill 8 mm		Pce					2		LAK	-	
	Twist wood drill 21 mm for electric screwdrivers	21 mm	Pce					2		LAK	-	
	HDPE / PVC pipe Cutter		Pce					1		LAK	-	
	Combination spanners set (8 mm to 20 mm or more)		Pce					1		LAK	-	
	Bucket (Plastic)		Pce					25		LAK	-	
	Sealant stone ຫຸ້ນຖານ		Pce					2		LAK	-	
	Finishing foam ຈຳນວນ		Pce					15		LAK	-	
	Survey spray color red		Pce					2		LAK	-	
	Work gloves (cut-resistant for pipe handling)		Pce					10		LAK	-	
	Cleaning cloths		Pce					20		LAK	-	
TOTAL										LAK	-	
TOTAL PRICE FOR MATERIAL										LAK	-	
TRANSPORT TO THE VILLAGE - Ban Noy (21°43'51.0"N 101°15'59.0"E), Boun Neua district, Phongsaly Province.												
TOTAL PRICE IN LAO KIP										LAK	-	